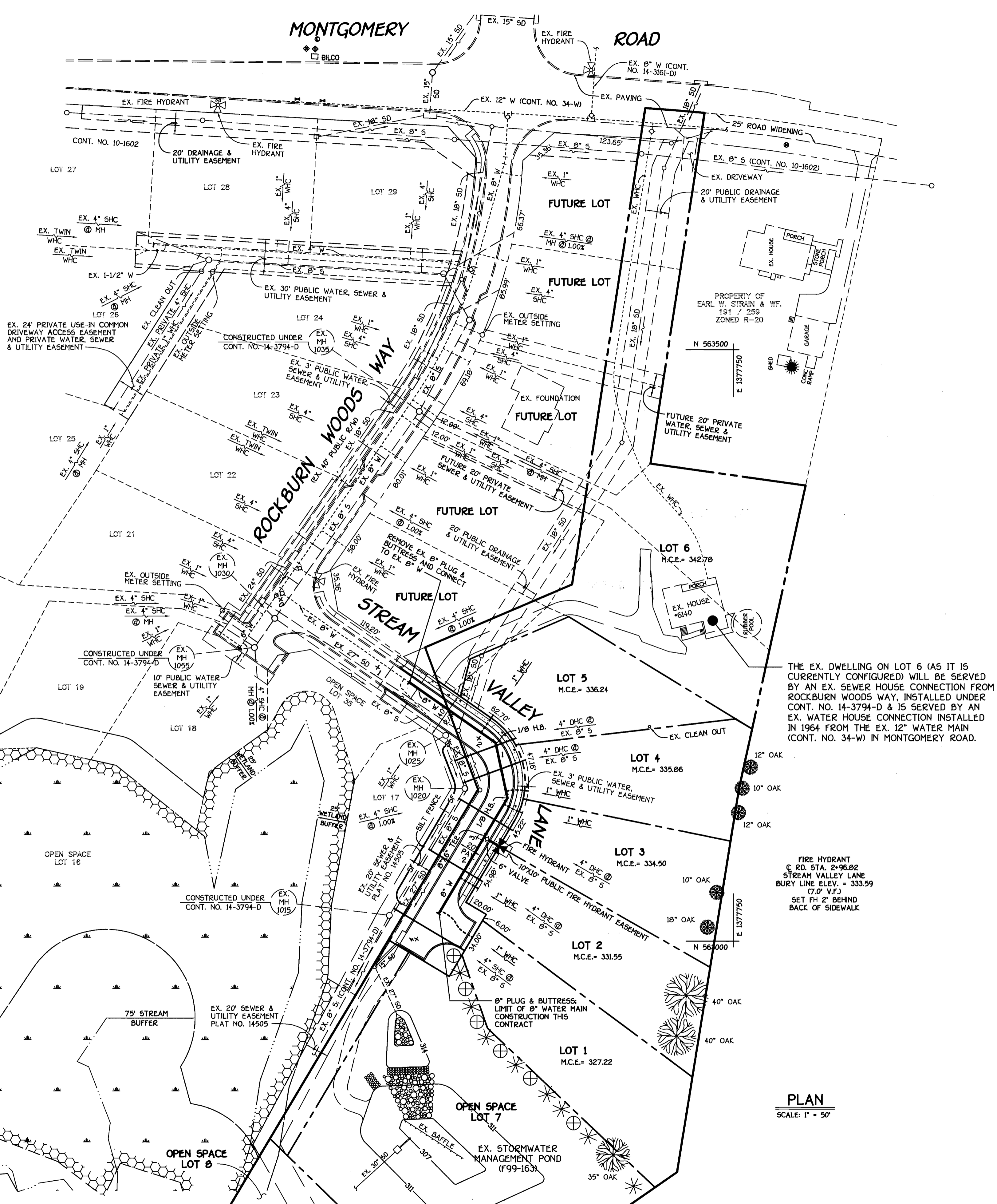


QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" WATER	251 L.F.			
6" WATER	15 L.F.			
1" WATER	113 L.F.			
4" SEWER	275 L.F.			
FIRE HYDRANTS	1 EACH			
1/8" H.B.	2 EACH			
8" X 6" TEE	1 EACH			
6" VALVE	1 EACH			
8" PLUG & BUTTRESS	1 EACH			
NAME OF UTILITY CONTRACTOR:				
SURVEY & DRAFTING DIVISION AS-BUILT DATE:				



**PROJECT: ROCKBURN VIEW SECTION 2 LOTS 1 THRU 8 CONTRACT NO. 14-3987-D**

WATER AND SEWER CODE FOR COUNTY USE ONLY  
 WATER NO.: 004  
 SEWER NO.: 2153000  
 WATER ZONE: 550  
 WATER TEST GRADIENT: 700

TYPE OF BUILDING: RESIDENTIAL SINGLE FAMILY DETACHED  
 NUMBER OF LOTS & PARCELS: 8 (6 BUILDABLE)  
 NO. OF WATER HOUSE CONNECTIONS: 5  
 NO. OF SEWER HOUSE CONNECTIONS: 5  
 DRAINAGE AREA: PATAPSCO  
 TREATMENT PLANT: PATAPSCO WASTEWATER TREATMENT PLANT CITY OF BALTIMORE

PLAN REFERENCE NUMBERS: P-10, F-02-18

**VICINITY MAP**  
 SCALE: 1" = 600'

- GENERAL NOTES**
- 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.
  - ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, NAD 83.
  - ALL VERTICAL CONTROLS ARE BASED ON NAVD 29.
  - ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
  - CLEAR ALL UTILITIES BY A MINIMUM OF 12" CLEAR ALL POLES BY 5'-0" MINIMUM.
  - FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
  - WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL (S) 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 THE EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
  - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:  
 AT&T . . . . . 1-800-525-2000  
 BGE (CONTRACTOR SERVICES) . . . . . 410-850-4620  
 BGE (UNDERGROUND DAMAGE CONTROL) . . . . . 410-787-9096  
 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS . . . . . 410-313-4900  
 BELL ATLANTIC MARYLAND, INC. . . . . 1-800-621-9900  
 COLONIAL PIPELINE CO. . . . . 410-795-1390  
 MISS UTILITY . . . . . 1-800-257-7777  
 STATE HIGHWAY ADMINISTRATION . . . . . 410-531-5533
  - 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.
  - CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONSTRUCTION OF THE MAIN.
  - ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
  - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
  - T.B. DENOTES TEST BORING.
  - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
  - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT 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 PLANS OR SPECIFICATIONS.
  - HOUSES WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
  - ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
  - MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.51.
  - WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
  - ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
  - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2" COVER UNLESS OTHERWISE NOTED.
  - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
  - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
  - FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W111 AND W213). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
  - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER MAIN SYSTEM.
  - ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH THE AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
  - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, (410) 313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(b) OF THE HOWARD COUNTY CODE.

**DEVELOPER'S CERTIFICATION**  
 I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Paul W. Koebel for:  
 CORNERSTONE HOLDINGS L.L.C. 01/17/02  
 SIGNATURE OF DEVELOPER DATE

**ENGINEER'S CERTIFICATION**  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Paul W. Koebel  
 01-17-02  
 SIGNATURE OF ENGINEER DATE

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

Jim Meyer  
 U.S. NATURAL RESOURCES CONSERVATION SERVICE  
 DATE 1/24/02

APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

John Robertson  
 HOWARD SOIL CONSERVATION DISTRICT  
 DATE 1/24/02

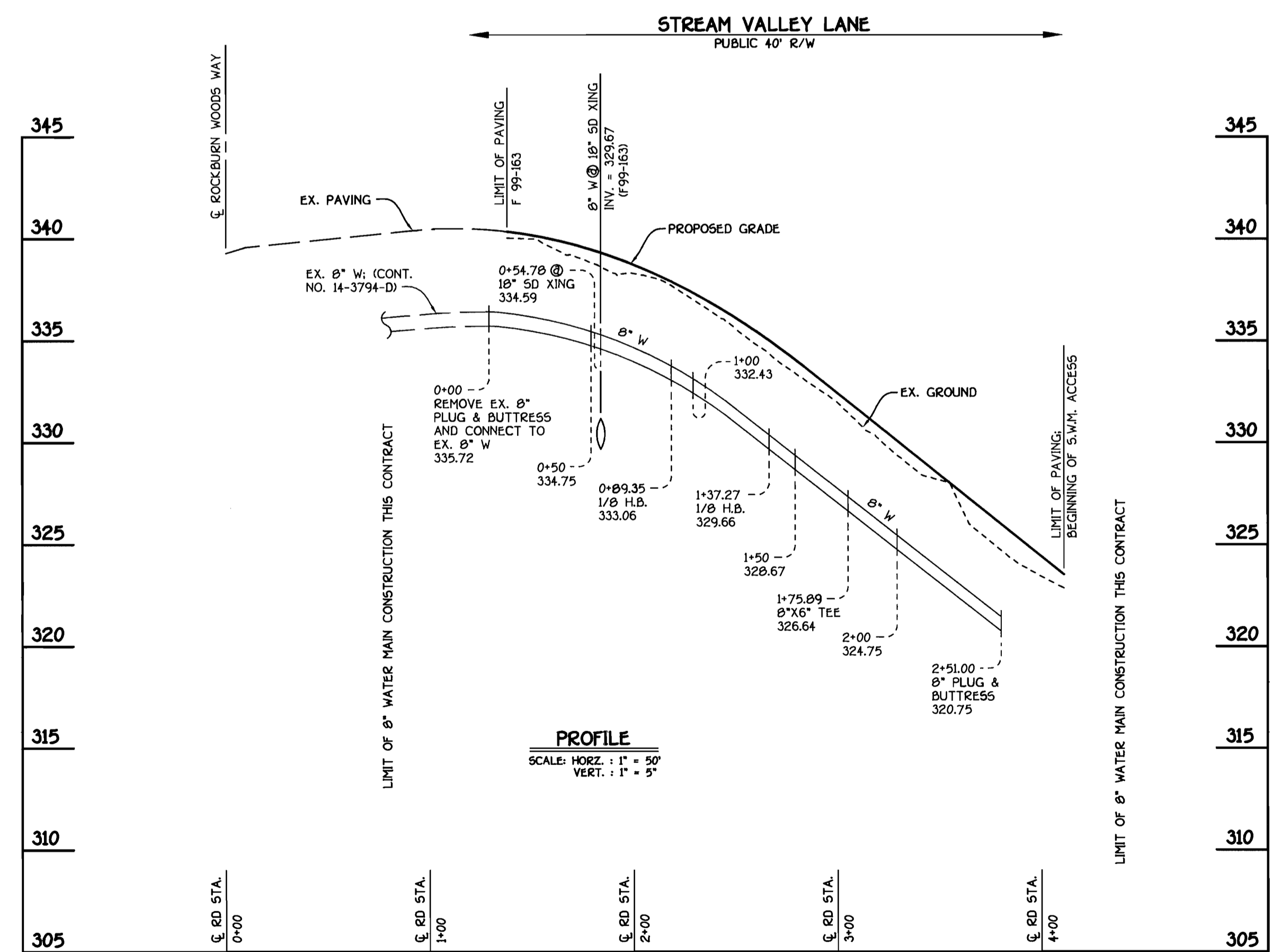
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON F02-18 AND AS SHOWN ON THESE PLANS.

Paul W. Koebel FOR:  
 CORNERSTONE HOLDINGS L.L.C. 01/17/02  
 SIGNATURE OF DEVELOPER DATE

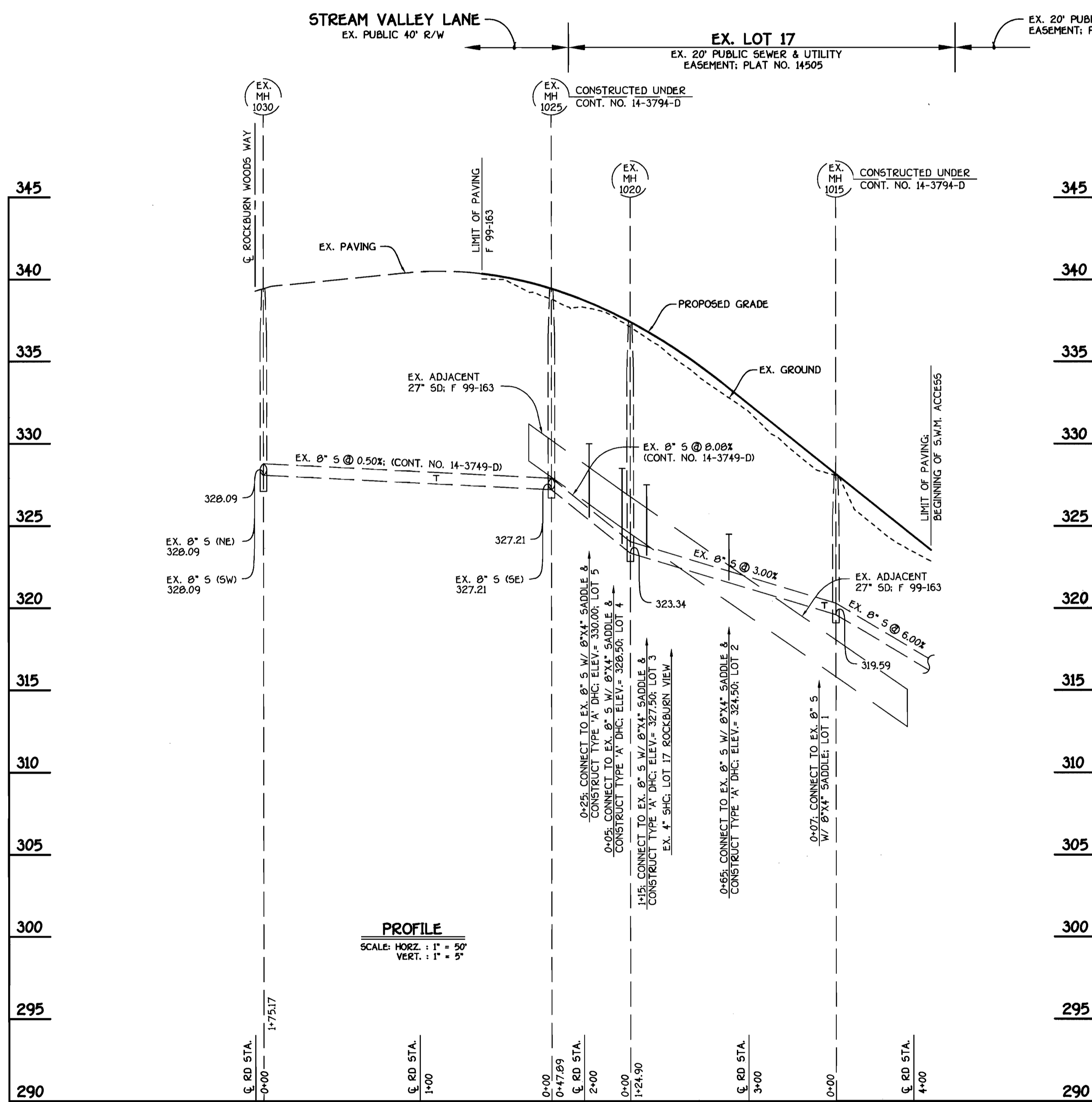
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND R. J. Berman CHIEF, BUREAU OF UTILITIES DATE 2-4-02	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND H. [Signature] CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 2/1/02	9757 STATE OF MARYLAND PROFESSIONAL ENGINEER TERRILL A. FISHER	DESIGNED BY: P.W.K. DRAWN BY: M.D.T. CHECKED BY: P.W.K. DATE: JANUARY, 2002	WATER AND SEWER MAINS TITLE SHEET & PLAN VIEW 600' SCALE MAP NO. 37 BLOCK NO. 4 F.C.C. WORK ORDER NO. 30694 FILE NAME: 30694 FINAL WATER AND SEWER SHT 1	<b>ROCKBURN VIEW</b> SECTION 2; LOTS 1 THRU 8 CONTRACT NO. 14-3987-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE AS SHOWN SHEET 1 OF 2
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WATER MAIN TABULATION CHART			
W.M. STATION	APPURTENANCE	℄ ROAD STATION	DISTANCE
STREAM VALLEY LANE			
0+00.00	CONNECT TO EX. 8" W	1+28.99	5.00' LT.
0+09.35	1/8 H.B.	2+12.11	6.87' LT.
1+37.27	1/8 H.B.	2+55.33	6.87' LT.
1+75.89	8" X 6" TEE	2+96.82	5.00' LT.
2+51.00	8" PLUG & BUTTRESS	3+71.94	5.00' LT.

SHC INVERT @ PROPERTY LINE CHART		
STATION	LOT	ELEVATION
EX. MH 1015 TO EX. MH 1020		
0+07 RT.	1	321.37
0+65 RT.	2 (TYPE 'A' DHC)	325.50
1+15 RT.	3 (TYPE 'A' DHC)	328.50
EX. MH 1020 TO EX. MH 1025		
0+05 RT.	4 (TYPE 'A' DHC)	329.56
0+25 RT.	5 (TYPE 'A' DHC)	331.04



**STREAM VALLEY LANE: WATER MAIN**



**STREAM VALLEY LANE: EX. SEWER MAINS**

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

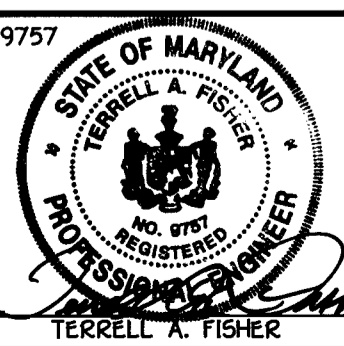
*Robert J. ...*  
CHIEF, BUREAU OF UTILITIES

2-4-02

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE, OFFICE PARK - 10272 BALTIMORE NATIONAL FREE  
ELLCOTT CITY, MARYLAND 21042  
4103 461 - 2955



DESIGNED BY: P.W.K.  
DRAWN BY: M.D.T.  
CHECKED BY: P.W.K.  
DATE: JANUARY, 2002

**WATER AND SEWER MAINS PROFILES**

600' SCALE MAP NO. 37 BLOCK NO. 4  
F.C.C. WORK ORDER NO. 30694  
FILE NAME: 30694 FINAL WATER AND SEWER PROFILES SH1

**ROCKBURN VIEW**  
SECTION 2; LOTS 1 THRU 8  
CONTRACT NO. 14-3987-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 of 2

CONTRACT NO. 14-3987-D  
**ROCKBURN VIEW**  
SECTION 2; LOTS 1 THRU 8  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND



QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" WATER	251 LF.		D.I.P. CL-52	HUGHES
6" WATER	15 LF.	15 LF.	"	"
1" WATER	113 LF.	113 LF.	COPPER	"
4" SEWER	275 LF.		P.V.C. SDR 35	HUGHES
FIRE HYDRANTS	1 EACH	1 EA	KENNEDY	"
1/8" H.B.	2 EACH	2 EA	D.I.P. CL-52	"
8" X 6" TEE	1 EACH	1 EA	D.I.P. CL-52	HUGHES
6" VALVE	1 EACH	1 EA	KENNEDY	"
8" PLUG & BUTTRESS	2 EACH	2 EA	"	HUGHES
NAME OF UTILITY CONTRACTOR: GAINES & COMPANY				
SURVEY & DRAFTING DIVISION AS-BUILT DATE:				
8" SEWER	233 LF.	233 LF.	P.V.C. SDR 35	HUGHES
MANHOLE	2 EA.	2 EA	PRE-CAST	ATLANTIC CON. PROP.

WATER AND SEWER ABSOLUTE FIELD MEASUREMENTS				
LOT #	FROM	TO	DIST.	REMARK
1	SHC	SHH 1015	52.6	NONE
2	"	F.H.	22.7	"
3	"	SHH 1015	84.0	"
4	"	F.H.	18.6	"
5	"	SHH 1020	51.0	"
6	"	"	58.0	"
7	"	"	60.5	"
8	"	"	67.0	"
9	"	"	56.6	"

"WATER ABSOLUTE"				
LOT #	W.H.C.	SHH 1015	74.5	"
1	"	SHC LOT 1	14.5	"
2	"	SHH 1015	80.7	"
3	"	SHH 1020	84.0	"
4	"	SHH 1020	58.2	"
5	"	SHH 1025	88.8	"
6	"	SHH 1020	82.0	"
7	"	SHH 1025	82.0	"
8	"	SHH 1020	66.7	"
9	"	SHH 1025	42.8	"
10	G.F.H. V"	F.H.	18.2	"
11	"	SHH 1020	48.7	"
12	SHH 1020	SHH 1021	182.0	"
13	SHH 1021	SHH 1022	106.0	"

**DEVELOPER'S CERTIFICATION**  
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Paul W. Koebel for:  
 CORNERSTONE HOLDINGS L.L.C. 01/17/02  
 SIGNATURE OF DEVELOPER DATE

**ENGINEER'S CERTIFICATION**  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Paul W. Koebel  
 01-17-02  
 SIGNATURE OF ENGINEER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
 Jim Meyer 1/24/02  
 U.S. NATURAL RESOURCES CONSERVATION SERVICE DATE

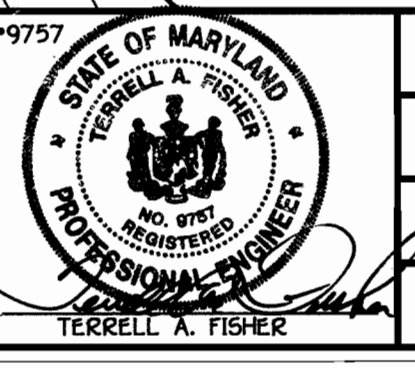
APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 John Robertson 1/24/02  
 HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON F02-18 AND AS SHOWN ON THESE PLANS.  
 Paul W. Koebel FOR:  
 CORNERSTONE HOLDINGS L.L.C. 01/17/02  
 SIGNATURE OF DEVELOPER DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Chief, Bureau of Utilities  
 2-4-02 DATE

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
 Chief, Development Engineering Division  
 2/1/02 DATE

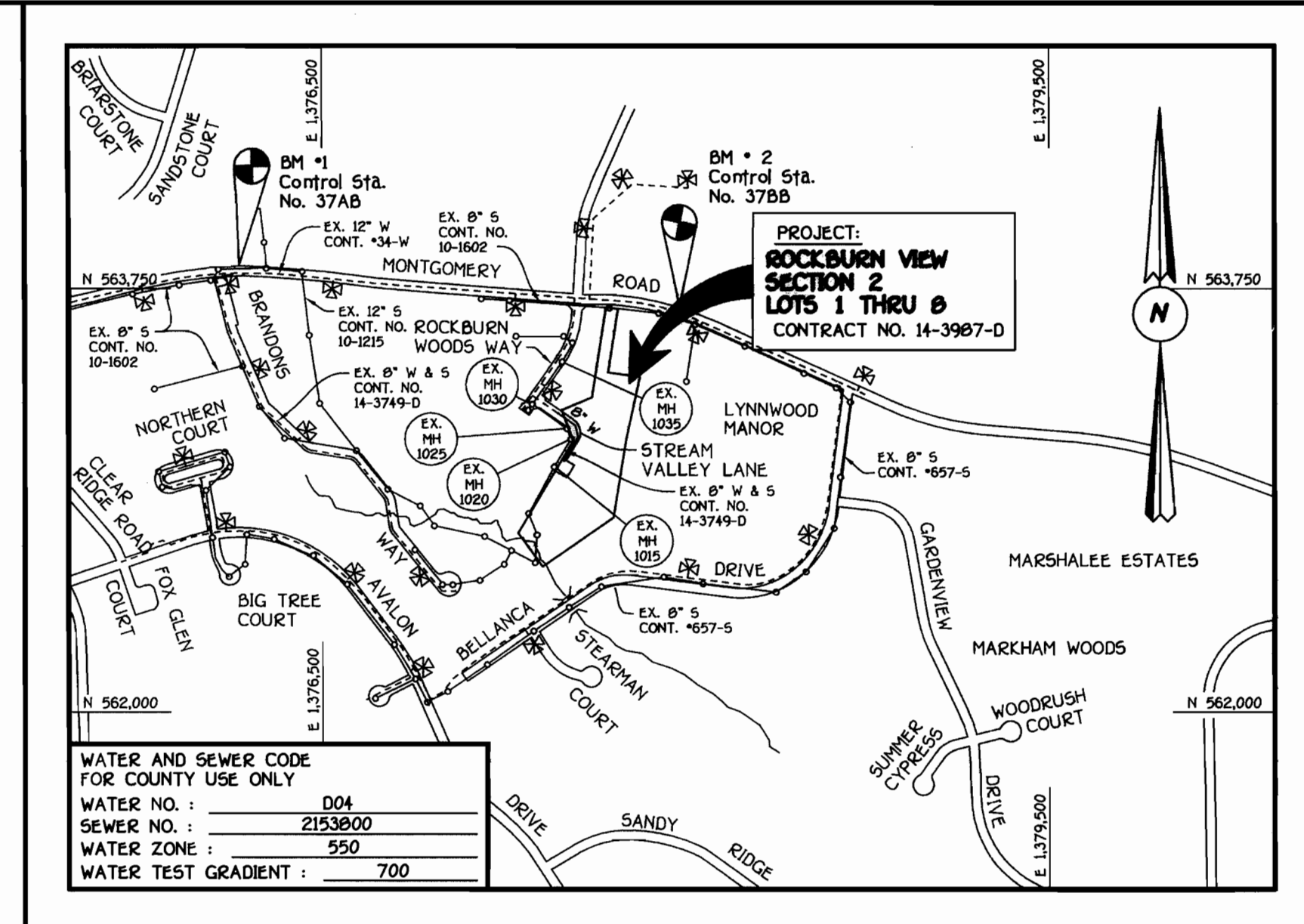
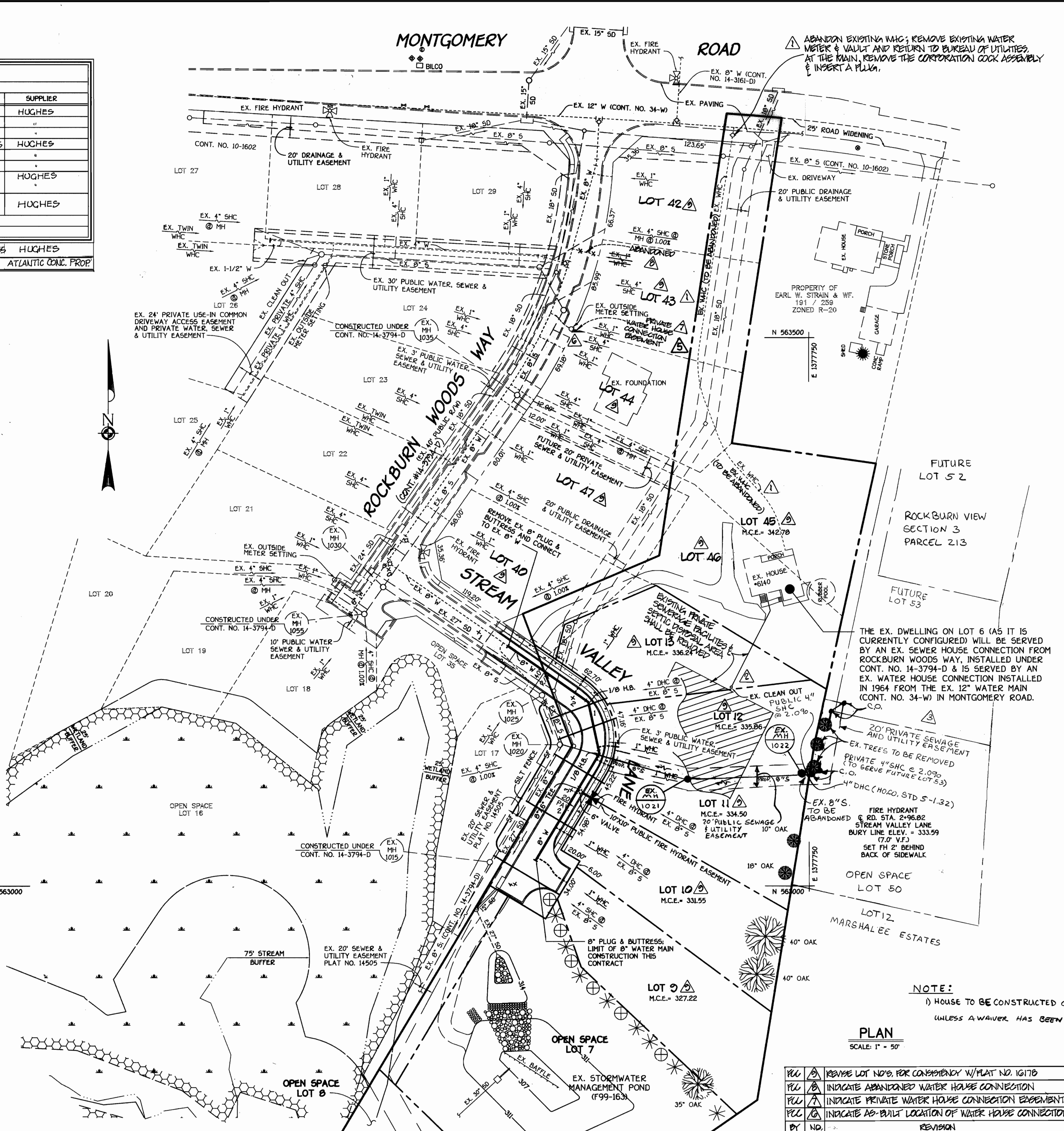
FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYS  
 CENTENNIAL SQUARE OFFICE PARK - 18277 BALTIMORE NATIONAL PIKE  
 ELLETTTS CITY, MARYLAND 21114  
 (410) 661-2955



DESIGNED BY: P.W.K. 01/15/02  
 DRAWN BY: M.D.T. 01/20/02  
 CHECKED BY: P.W.K. 02/27/02  
 DATE: JANUARY, 2002  
 BY NO. REVISION

WATER AND SEWER MAINS TITLE SHEET & PLAN VIEW  
 600' SCALE MAP NO. 37 BLOCK NO. 4  
 F.C.C. WORK ORDER NO. 30694  
 FILE NAME: 30694 FINAL WATER AND SEWER SH1 1

CONTRACT NO. 14-3987-D  
 ROCKBURN VIEW SECTION 2; LOTS 1 THRU 8 WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN  
 SHEET 1 OF 2



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, NAD 83.  
 3. ALL VERTICAL CONTROLS ARE BASED ON NAVD 29.  
 4. ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.  
 5. CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM.  
 6. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.  
 7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL (M) 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 THE 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:  
 AT&T . . . . . 1-800-526-2000  
 BGE (CONTRACTOR SERVICES) . . . . . 410-850-4620  
 BGE (UNDERGROUND DAMAGE CONTROL) . . . . . 410-787-9096  
 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS . . . . . 410-313-4900  
 BELL ATLANTIC MARYLAND, INC. . . . . 1-800-621-9900  
 COLONIAL PIPELINE CO. . . . . 410-795-1390  
 MISS UTILITY . . . . . 1-800-257-7777  
 STATE HIGHWAY ADMINISTRATION . . . . . 410-531-5533

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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONSTRUCTION OF THE MAIN.  
 11. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.  
 12. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.  
 13. T.S. DENOTES TEST BORING.  
 14. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.  
 15. MANHOLES DESIGNATED WITH "I" IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52.  
 16. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS.  
 17. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.  
 18. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.  
 19. MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.1.  
 20. WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.  
 21. ALL WATER MAINS SHALL BE D.I.P. CL-52 UNLESS OTHERWISE NOTED.  
 22. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2" COVER UNLESS OTHERWISE NOTED.  
 23. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.  
 24. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.  
 25. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W1.1 AND W2.13). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.  
 26. CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER MAIN SYSTEM.  
 27. ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH THE AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.  
 28. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, (410) 313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(d) OF THE HOWARD COUNTY CODE.

NOTE:  
 1) HOUSE TO BE CONSTRUCTED ON LOT 3 & 4 SHALL BE A MINIMUM OF 2' FROM THE SEWER EASEMENT UNLESS A WAIVER HAS BEEN GRANTED.

PLAN  
 SCALE: 1" = 50'