


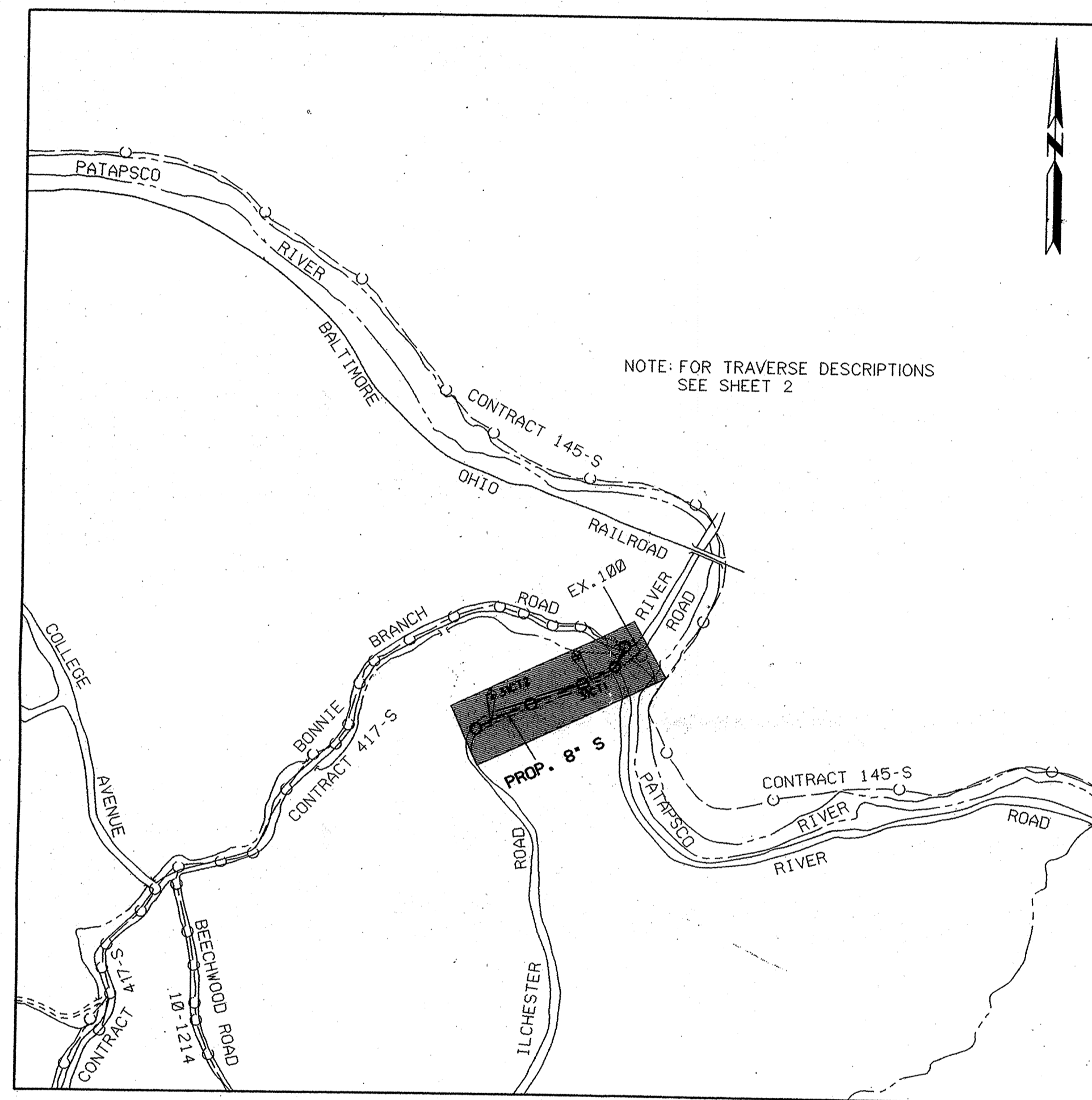
# BONNIE BRANCH AT ILCHESTER ROAD SEWER

## HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

CAPITAL PROJECT No. S-6224  
CONTRACT No. 10-3821

### GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM RECORD DATA. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND SERVICES & MAINTAIN UNINTERRUPTED SERVICE. 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 U.S.G.S. DATA NGVD88.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-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.
- 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 (LATEST EDITION). 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  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 OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THIS DRAWING:
  - AT&T \_\_\_\_\_ 410-865-3803
  - BG&E (CONTRACTOR SERVICES) \_\_\_\_\_ 410-850-4620
  - BG&E - UNDERGROUND DAMAGE CONTROL \_\_\_\_\_ 410-787-9068
  - BUREAU OF UTILITIES (DPW) \_\_\_\_\_ 410-313-4900
  - CHESAPEAKE & POTOMAC TELEPHONE CO. \_\_\_\_\_ 410-597-8585
  - 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 THE 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 LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.
- ALL SEWER MAINS SHALL BE D.I.P. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL 05.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.



### VICINITY MAP

SCALE: 1" = 600'

TYPE OF BUILDING: RESIDENTIAL  
 NUMBER OF PARCELS: 3 (ONLY PARCEL P-618 IS WITHIN METROPOLITAN DISTRICT)  
 NUMBER OF SEWER HOUSE CONNECTIONS: 1  
 DRAINAGE AREA: PATAPSCO  
 HOWARD COUNTY SEWER CODE: 1251659

### TRAFFIC CONTROL PLAN

TRAFFIC SHALL BE MAINTAINED THROUGH THE CONSTRUCTION AREA IN ACCORDANCE WITH MSHA STANDARDS NO. MD-104.31-02 AND MD-104.32.02 (BOUND IN SPECIFICATIONS) EXCEPT (1) TRENCH EXCAVATIONS MUST BE REFILLED AND TEMPORARILY PAVED WITH BITUMINOUS CONCRETE OR PLATED AT THE END OF EACH WORK DAY TO PERMIT SAFE FULL TWO WAY OPERATION OF THE ROADWAY, AND (2) ALL REFERENCES IN THE MSHA STANDARDS TO SHA DISTRICT OFFICE SHALL BE INTERPRETTED TO MEAN THE HOWARD COUNTY DPW BUREAU OF ENGINEERING, CHIEF ENGINEER.

### INDEX OF SHEETS

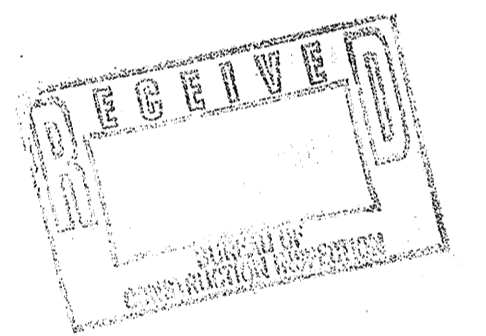
SHEET No.	DESCRIPTION
1	TITLE SHEET, GENERAL NOTES, INDEX & CERTIFICATION
2	8" SANITARY SEWER PLAN
3	8" SANITARY SEWER PROFILE
4	EROSION & SEDIMENT CONTROL, NOTES & DETAILS

SEWER QUANTITIES				
ITEM	UNIT	ESTIMATE	AS-BUILT	MATERIAL SUPPLIER
8" S	L.F.	948'	926.5	U.S. PIPE
STD. MANHOLE	EA.	5	6	ATLANTIC CONG.
4" SHC	L.F.	35	81	U.S. PIPE

NAME OF UTILITY CONTRACTOR: T.C. SIMONS

CHECKBOX \_\_\_\_\_  
 AS-BUILT DATE: \_\_\_\_\_  
 SURVEY AND DRAFTING DIVISION

RESTORATION SCHEDULE		
LOCATION	DISTANCE	TYPE
EX. MH. 1 TO MH. 5 & HOUSE CONNECTION	985'	TRENCH REPAIR, SEE STD. DETAIL 04.01
HOUSE CONNECT	10'	SEEDING & MULCH



### DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A 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."

*Ronald G. Lepson* 6/7/00  
 RONALD G. LEPSON  
 BUREAU OF ENGINEERING  
 DEPARTMENT OF PUBLIC WORKS  
 DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
*Chris Sims* 7/6/00  
 U.S. NATURAL RESOURCES  
 CONSERVATION SERVICE  
 DATE

### ENGINEER'S CERTIFICATION

"I/WE 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."

*Edward A. Serp III* 06/07/00  
 EDWARD A. SERP III, P.E.  
 DATE

KCI TECHNOLOGIES  
 19 NORTH PARK DRIVE  
 HUNT VALLEY, MARYLAND 21038

THIS DEVELOPMENT PLAN IS APPROVED FOR THE SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*John J. Sig* 7/6/00  
 JOHN J. SIG, S.C.D.  
 HOWARD COUNTY S.C.D.  
 DATE

**As-Built**

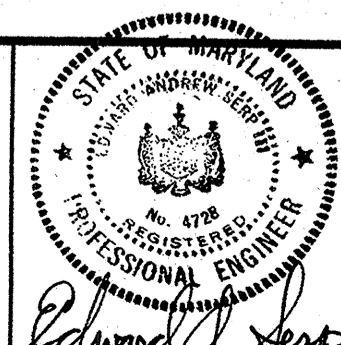
DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*James R. Lewis* 6-8-00  
 DIRECTOR OF PUBLIC WORKS  
 CHIEF, BUREAU OF UTILITIES  
 DATE

*Ronald G. Lepson* 6/7/00  
 CHIEF, BUREAU OF ENGINEERING  
 DATE

*John J. Sig* 6-7-00  
 CHIEF, UTILITY DESIGN DIVISION  
 DATE

ENGINEERS AND PLANNERS  
 10 NORTH PARK DRIVE  
 HUNT VALLEY, MD. 21030-1888  
 (410) 316-7800



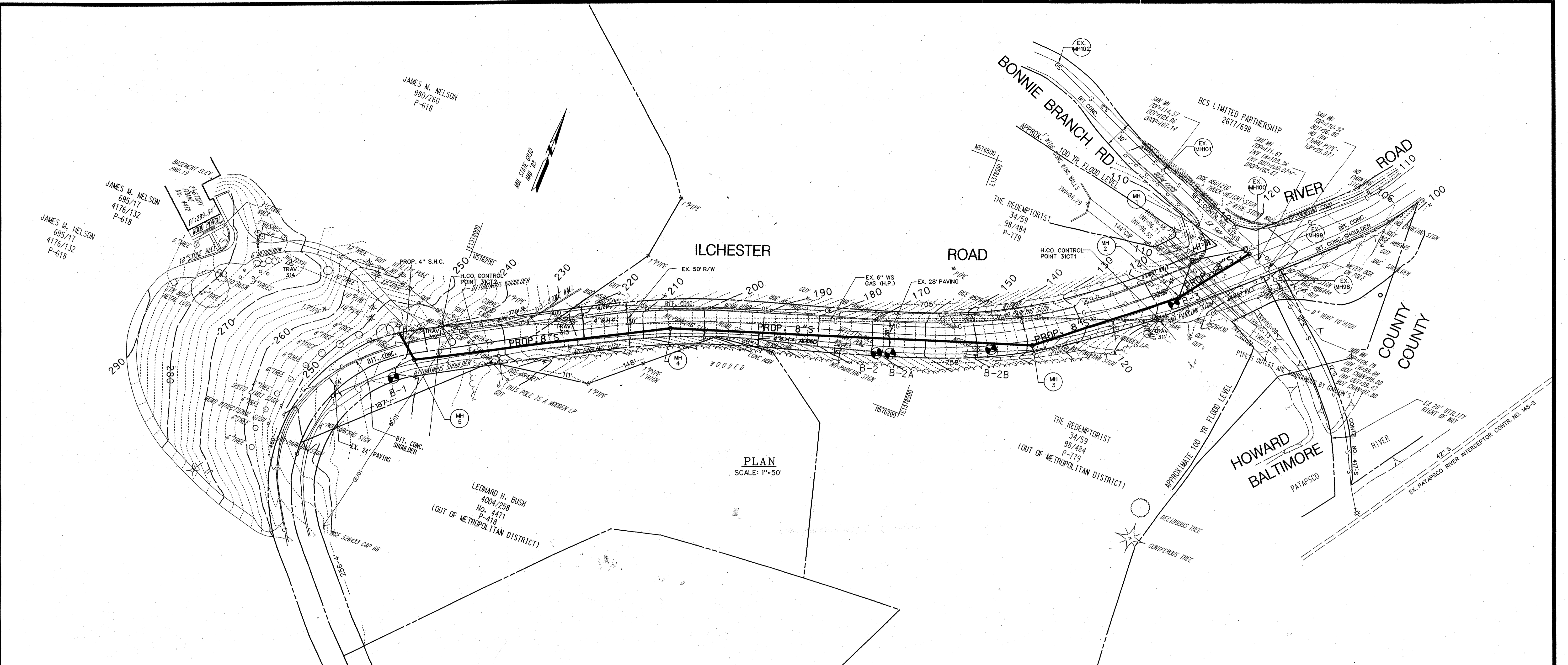
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DRN:	GLJ				
CHK:	EAS				
DATE:	3/24/00	K.C.I.	1	AS-BUILT DATA ADDED TO PLAN	06/05/01
BY:		NO.		REVISION	DATE

TITLE SHEET, GENERAL NOTES,  
 INDEX & CERTIFICATIONS

600' SCALE TAX MAP NO. 31 PARCEL NO. 618

BONNIE BRANCH AT  
 ILCHESTER ROAD SEWER  
 CAPITAL PROJECT No. S-6224  
 CONTRACT No. 10-3821  
 ELECTION DISTRICT NO. 1 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 1 OF 4  
 FILE NAME: M:\1999\01\19180.F VICINITY.DGN



JAMES M. NELSON  
695/17  
4176/132  
P-618

JAMES M. NELSON  
980/260  
P-618

JAMES M. NELSON  
695/17  
4176/132  
P-618

ILCHESTER ROAD

ROAD

BONNIE BRANCH RD

RIVER

ROAD

COUNTY COUNTY

HOWARD BALTIMORE

PLAN  
SCALE: 1"=50'

LEONARD H. BUSH  
4004/258  
No. 4471  
P-418  
(OUT OF METROPOLITAN DISTRICT)

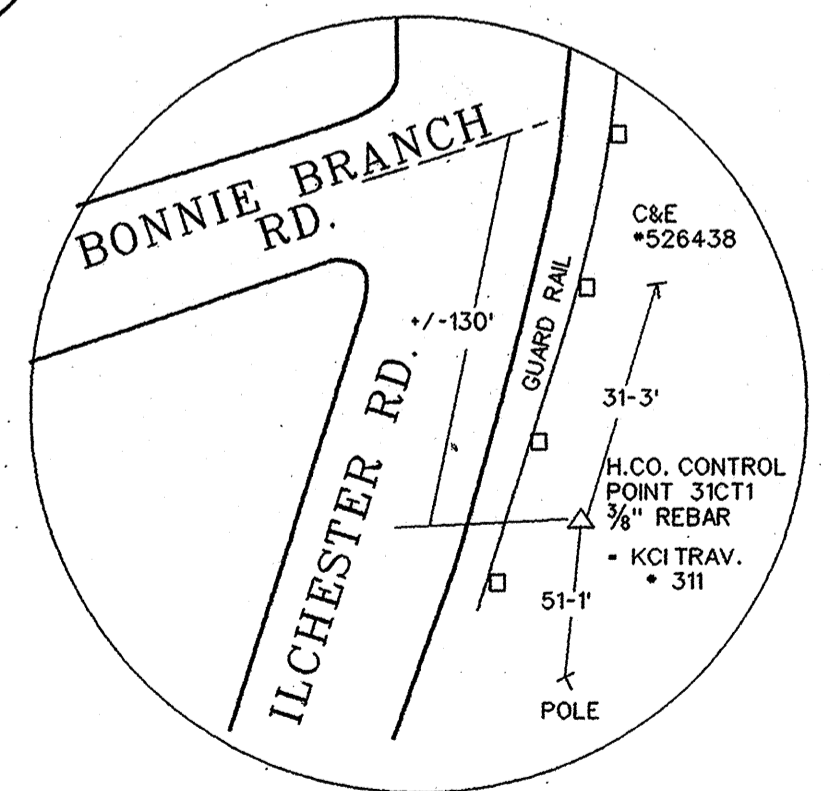
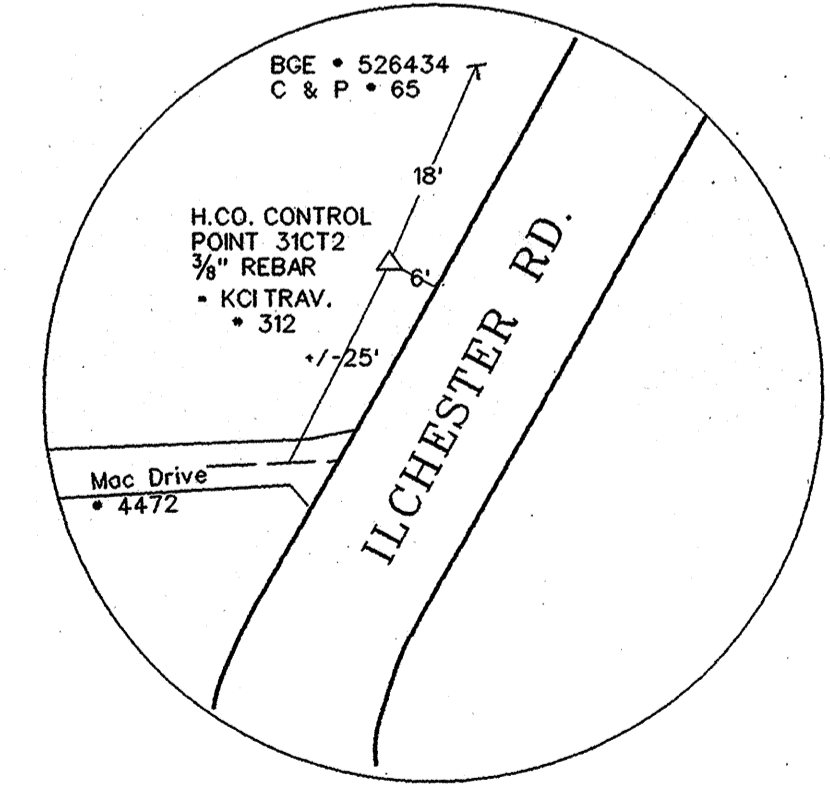
THE REDEMPTORIST  
34/59  
98/484  
P-179  
(OUT OF METROPOLITAN DISTRICT)

**SANITARY SEWER  
STAKEOUT COORDINATES SCHEDULE**

STATION	NORTHING	EASTING
MH 1	576,501.27	1,378,794.70
MH 2	576,429.42	1,378,740.03
MH 3	576,321.98	1,378,609.58
MH 4	576,197.68	1,378,232.54
MH 5	576,067.05	1,377,983.83

**TRAVERSE COORDINATES SCHEDULE**

NUMBER	NORTHING	EASTING	BEARING	DISTANCE	ELEVATION
H.CO. CONTROL POINT 31CT1 TRAV. 311	576,398.946	1,378,727.863			119.20
			68.28	793.18	
H.CO. CONTROL POINT 31CT2 TRAV. 312	576,111.597	1,377,998.314			239.05
			87.77	180.76	
TRAV. 314	576,118.63	1,377,817.71			273.21
H.CO. CONTROL POINT 31CT2 TRAV. 311	576,398.946	1,378,727.863			119.20
			69.15	646.61	
TRAV. 313	576,168.81	1,378,123.59			221.95



**As-Built**

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

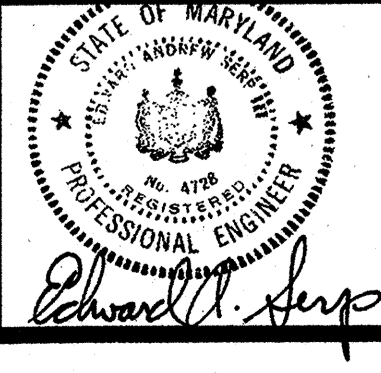
*James M. Nelson*  
DIRECTOR OF PUBLIC WORKS  
DATE: 6-8-00

*Robert J. Johnson*  
CHIEF, BUREAU OF ENGINEERING  
DATE: 6/7/00

*Robert J. Johnson*  
CHIEF, UTILITY DESIGN DIVISION  
DATE: 6-7-00

ENGINEERS AND PLANNERS  
10 NORTH PARK DRIVE  
HUNT VALLEY, MD. 21030-1888  
(410) 316-7800

**KCI TECHNOLOGIES**



DES: EWC			
DRN: GLJ			
CHK: EAS			
DATE: 3/24/00			
K.C.I. 1	AS-BUILT DATA ADDED TO PLAN		
BY: NO.			
REVISION			
DATE: 6/25/00			

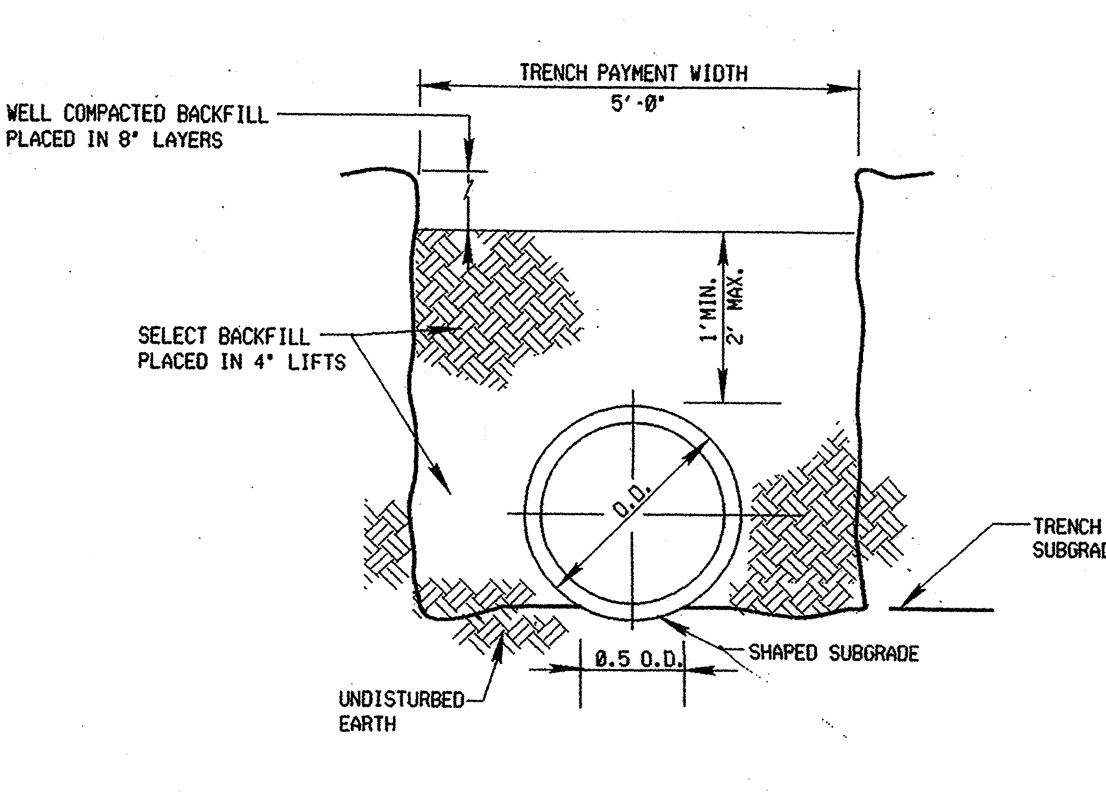
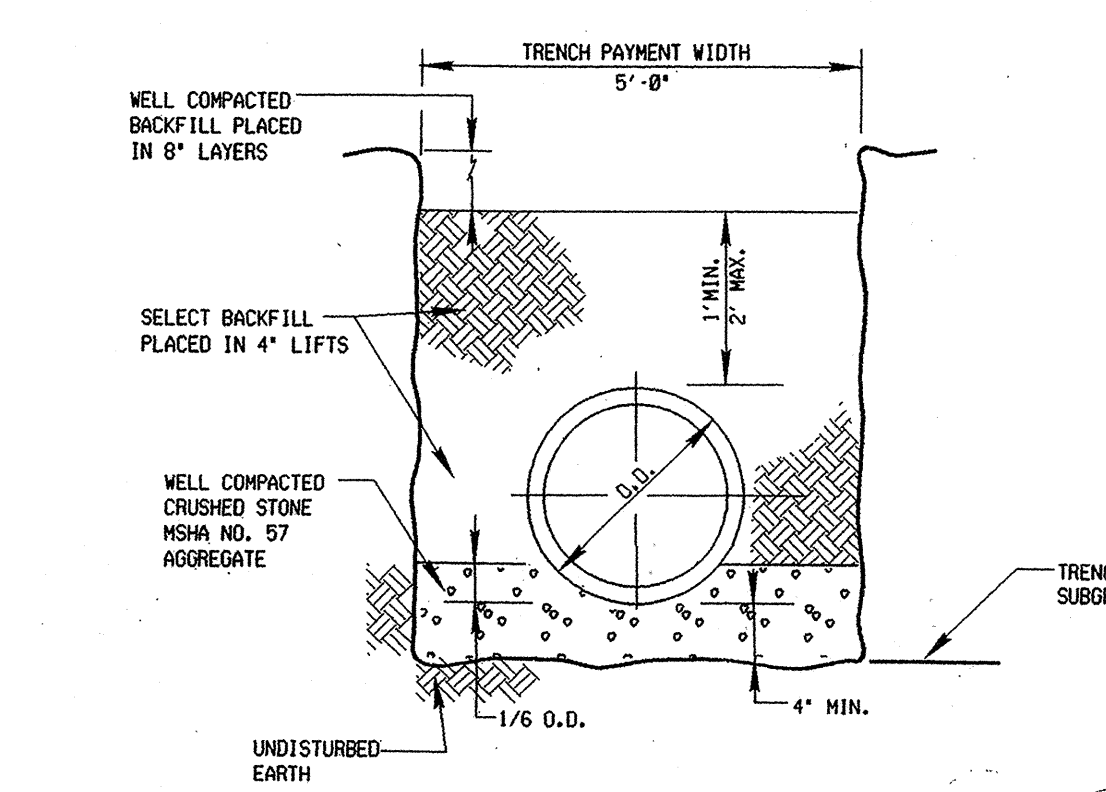
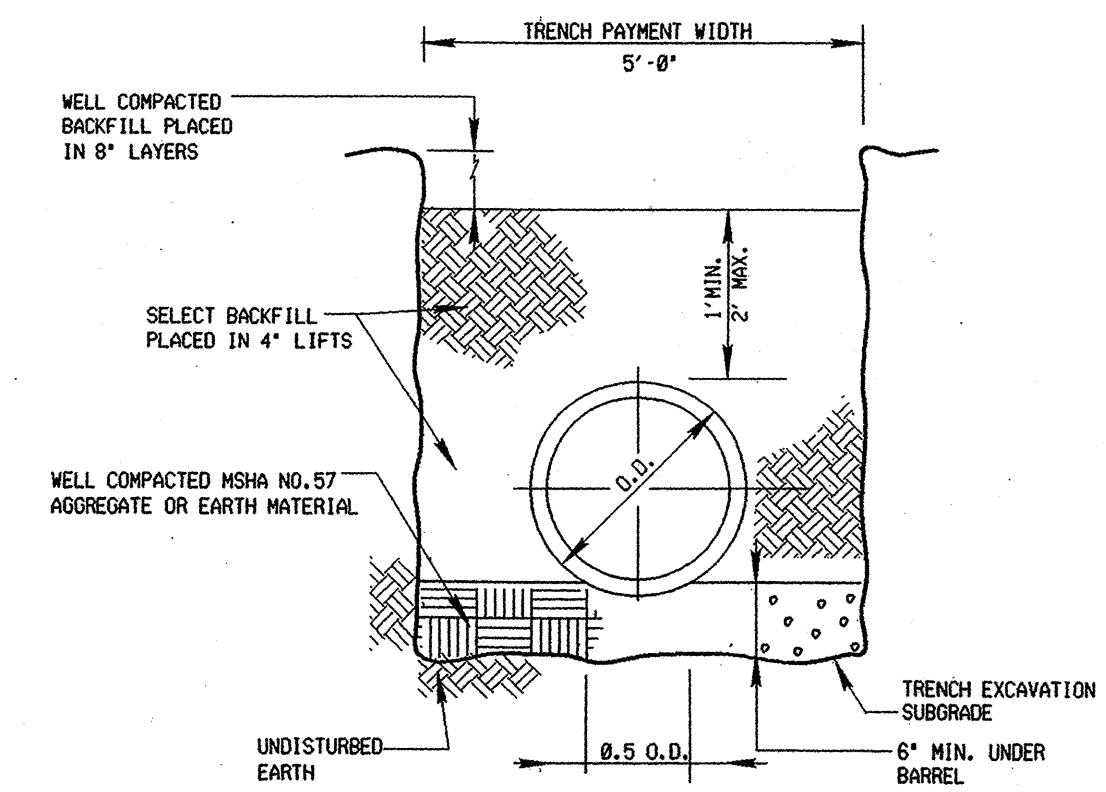
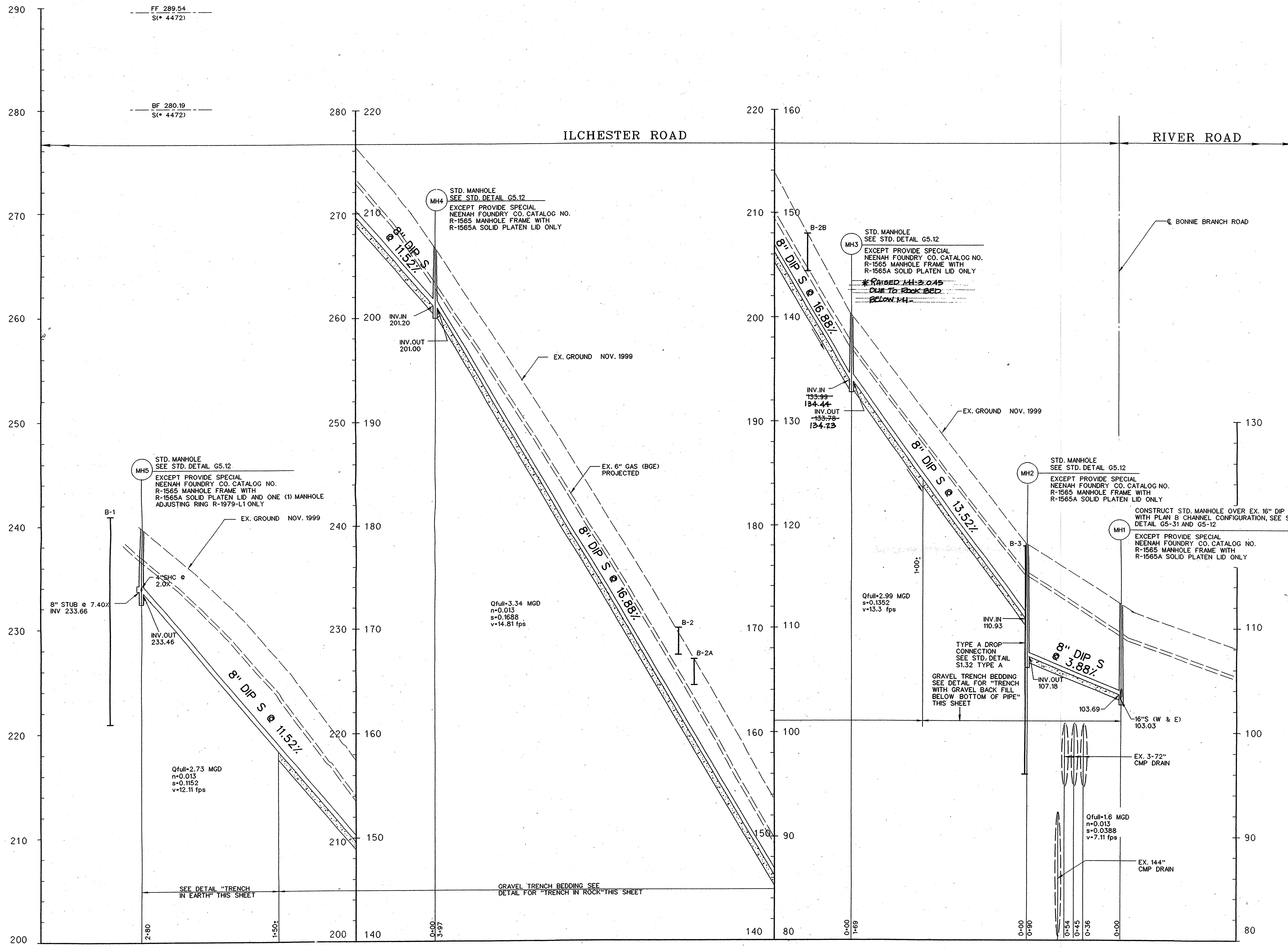
**8"-SANITARY SEWER PLAN**

PARCEL NO.

600' SCALE TAX MAP NO. 31 PARCEL NO. 618

**BONNIE BRANCH AT  
ILCHESTER ROAD SEWER**  
CAPITAL PROJECT No. S-6224  
CONTRACT No. 10-3821  
ELECTION DISTRICT NO. 1 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 OF 4  
FILE NAME: M7/1999/0199/80.F



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

\* BASED ON HOWARD COUNTY STANDARD DETAIL G2.01 EXCEPT TRENCH SUBGRADE SHALL BE AS SHOWN ON THESE DETAILS

**As-Built**

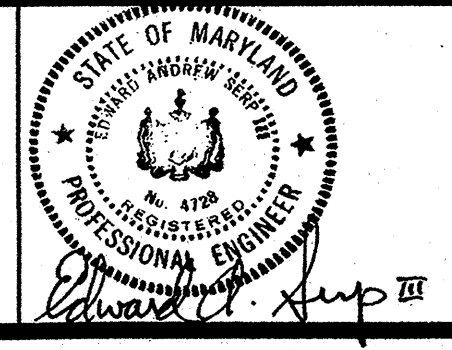
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James M. DeLo* 6/7/00  
DIRECTOR OF PUBLIC WORKS DATE

*Paul G. Johnson* 6-7-00  
CHIEF, BUREAU OF ENGINEERING DATE

*John W. Smith* 6-7-00  
CHIEF, UTILITY DESIGN DIVISION DATE

ENGINEERS AND PLANNERS  
10 NORTH PARK DRIVE  
HUNT VALLEY, MD. 21030-1888  
(410) 316-7800



DES: EWC			
DRN: CK			
CHK: EAS			
DATE: 3/24/00	BY: K.C.I.	NO. 1	AS-BUILT CONDITIONS PLAN
	REVISION		
	DATE: 9/27/01		

8"-SANITARY SEWER PROFILE

600' SCALE TAX MAP NO. 31 PARCEL NO. 618

BONNIE BRANCH AT  
ILCHESTER ROAD SEWER  
CAPITAL PROJECT No. S-6224  
CONTRACT No. 10-3821  
ELECTION DISTRICT NO. 1 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 3 OF 4

FILE NAME: H:\1999\0199180.F\7C-2.DGN

### DETAIL 22 - SILT FENCE

**Construction Specifications**

- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum cut), or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:
 

Tensile Strength	50 lbs/in. (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in. (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft <sup>2</sup> /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-15-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

### DETAIL 30 - EROSION CONTROL MATTING

**Construction Specifications**

- Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".
- Staple the 4" overlap in the channel center using an 18" spacing between staples.
- Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
- Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
- Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.
- The discharge end of the matting liner should be similarly secured with 2 double rows of staples.

Note: If flow will enter from the edge of the matting then the area effected by the flow must be keyed-in.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE G-22-2 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

### EROSION CONTROL MATTING

**Construction Specifications**

- Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".
- Staple the 4" overlap in the channel center using an 18" spacing between staples.
- Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
- Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
- Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.
- The discharge end of the matting liner should be similarly secured with 2 double rows of staples.

Note: If flow will enter from the edge of the matting then the area effected by the flow must be keyed-in.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE G-22-2A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

### DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

**Construction Specifications**

- Length - minimum of 50' (#30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. Get the plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 3:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-17-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

### PERMANENT SEEDING NOTES

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 RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

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

- PREFERRED -** APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT.) AND 500 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ FT.).
- 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 DISK INTO UPPER THREE INCHES OF SOIL.

**SEEDING -** FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 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 1-1/2 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 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT.) FOR ANCHORING.

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

### TEMPORARY SEEDING NOTES

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, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

**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 OCTOBER 15, SEED WITH 2-1/2 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 1-1/2 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

### SEQUENCE OF CONSTRUCTION

- CONTACT HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION DIVISION (313-1870) PRIOR TO STARTING DATE.
- INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL VOL. IV. EXCAVATE AND INSTALL PROPOSED 8" SEWER MAIN. RESTORE EARTH TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD COUNTY STANDARDS. (TRENCH TO BE BACKFILLED AND STABILIZED ON SAME DAY) (TOTAL DURATION 45 DAYS)
- RESTORE ALL DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING. (45 DAYS)
- UPON PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES. (2 DAYS)

### STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION. (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
  - 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
  - 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (SEC. G20.0) FOR PERMANENT SEEDINGS, SOD, TEMPORARY SEEDING AND MULCHING. TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:**

TOTAL AREA OF SITE	N/A	ACRES
AREA DISTURBED	0.22	ACRES
AREA TO BE ROOFED OR PAVED	0.21	ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.009	ACRES
TOTAL CUT	N/A	CU. YDS.
TOTAL FILL	N/A	CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	N/A	
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF THE DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE (3) PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- CONTRACTOR SHALL PLACE EXCAVATED MATERIALS ON UPHILL SIDE OF TRENCH AND PLACE SILT FENCE ON DOWNHILL SIDE OF TRENCH.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James J. New* 6/7/00  
DIRECTOR OF PUBLIC WORKS DATE

*Robert J. Ryan* 6-7-00  
CHIEF, BUREAU OF ENGINEERING DATE

*Robert J. Ryan* 6-8-00  
CHIEF, BUREAU OF UTILITIES DATE

*David J. Ryan* 6-7-00  
CHIEF, UTILITY DESIGN DIVISION DATE

ENGINEERS AND PLANNERS  
10 NORTH PARK DRIVE  
HUNT VALLEY, MD. 21030-1888  
(410) 316-7800

*Edward A. Serpico*  
PROFESSIONAL ENGINEER

DES:	EWC				
DRN:	GLJ				
CHK:	EAS				
DATE:	3/24/00	BY	NO.	REVISION	DATE

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

600' SCALE TAX MAP NO. 31 PARCEL NO. 618

BONNIE BRANCH AT ILCHESTER ROAD SEWER CAPITAL PROJECT No. S-6224 CONTRACT No. 10-3821 ELECTION DISTRICT NO. 1 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN SHEET 4 OF 4

FILE NAME: M:\1999\01\99180.F /SEDI.DGN