

Consistency
report
project

Comment
4/29/99

USA_S-1829-431

HC 155-99 Bynum Run Interceptor
Consistency Report Sewer

Judge John C. North, II
Chairman



Ren Serey
Executive Director

STATE OF MARYLAND
CHESAPEAKE BAY CRITICAL AREA COMMISSION

45 Calvert Street, 2nd Floor, Annapolis, Maryland 21401
(410) 260-7516 Fax: (410) 974-5338

April 29, 1999

Mr. Matt Kropp
Environmental Planner
Harford County P & Z
220 South Main Street
Bel Air, MD 21014

***RE: Bynum Run Interceptor Sewer
Stream Bank Stabilization***

Dear Mr. Kropp:

Thank you for providing "Notification of Certification" that the above project is consistent with Harford County's Critical Area Program. The Project Evaluation staff understands that the above-referenced project involves approximately 262 linear feet of stream bank in the main stem of Bynum Run, between Abingdon and Riverside. The site is located approximately 400 feet southeast of Philadelphia Road (MD 7). The site is also entirely within the Chesapeake Bay Critical Area (CBCA) and is designated a Resource Conservation Area. The purpose of the project is to stabilize the stream bank and prevent further erosion in an area near an existing 36-inch interceptor sewer. Without immediate attention, the potential exists for future storm events to cause the interceptor sewer to be undermined and eventually collapse.

The Project Evaluation staff also understands:

1. That all proposed stream bank stabilization\sewer line protection work will take place within the 100-foot Critical Area Buffer and the 75-foot nontidal wetland Buffer. The impacts to the stream and within the Critical Area Buffer are unavoidable in order to protect the 36-inch sewer main from encroachment by the eroding stream bank. The proposed construction work will improve the current stream bank and Critical Area Buffer conditions at the site by providing a more stable slope and reforested Buffer;

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2. That there are currently no known habitats of rare, threatened or endangered species, and forest interior dwelling bird species;
3. That the proposed construction activities will not require the removal of any individual trees, riparian forests, or woodland vegetation within or outside the Critical Area Buffer;
4. That there are no proposed impacts to hydric soils, non-tidal wetlands, and the 75-foot non-tidal wetland buffer; and,
5. That the proposed impact to two tributary streams will be minor.

The Commission staff has determined that the above proposed development: 1) has environmental or economic consequences that will largely be confined to the immediate area of the site on which the development is located; 2) does not substantially affect the Critical area program of the local jurisdiction; and 3) is not considered by the Commission as major development. (See COMAR: Chapter Two, Regulations for Development in the Critical Area Resulting from State and Local Agency Programs). Therefore, approval of the above project by the Commission is not necessary.

If there are any questions pertaining to the above project, please feel free to contact me at (410) 260-7072.

Sincerely,


Dawnn McCleary
Natural Resources Planner

cc: Pat Pudelkewicz
Regina Esslinger

HC 155-99

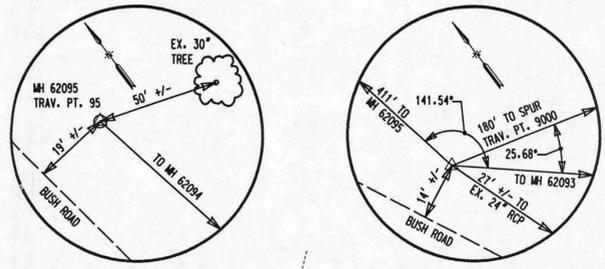
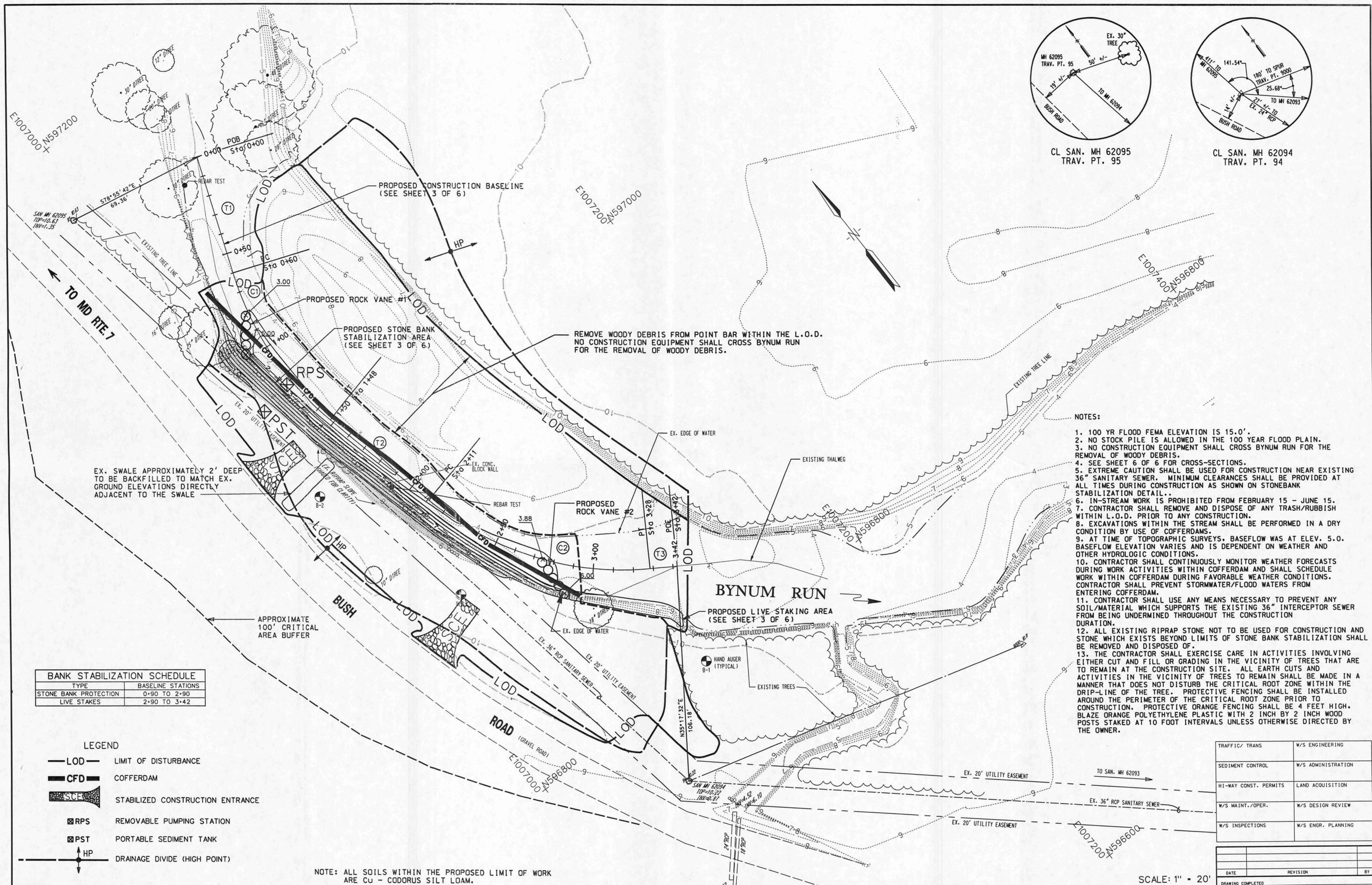
I. DESCRIPTION OF PROJECT

The Bynum Run Sanitary Sewer Stream Stabilization Project involves the stabilization of approximately 262 linear feet of stream bank along an outer meander bend in the main stem of Bynum Run, between Abingdon and Riverside in Harford County, Maryland. The site is located approximately 400 feet southeast of Philadelphia Road (MD 7), just east of an unimproved road known as Bush Road. The site is situated entirely within the Chesapeake Bay Critical Area (CBCA), in an area designated as a Resource Conservation Area (RCA) land use management zone. The owner of the property on which the work is to be completed is the Maryland Department of Natural Resources (DNR) and the site is immediately adjacent to an area known as the Bush Declaration Natural Resource Management Area.

The purpose of the project is to stabilize the stream bank and prevent further erosion in an area where the meander bend of the stream has encroached in recent years towards an existing 36-inch interceptor sewer. The sewer interceptor had recently become exposed, and as an emergency stop-gap measure, the Harford County Department of Public Works had installed some rip rap and concrete block for protection in early 1998. Since this installation, many concrete blocks have fallen into the stream channel. As a result, some of the rip rap has also moved down the stream bank towards the fallen blocks. Without immediate attention, the potential exists for future storm events to cause the interceptor sewer to be undermined and eventually collapse. Since this particular interceptor carries approximately 80 percent of all sewage within Harford County, the quantity of sewage released into Bynum Run as a result of a sewer collapse could range from 5,000 gallons per minute to 12,000 gallons per minute. Such a catastrophic release would threaten the environment and create a severe public health threat.

The project site consists of an overgrown weedy area between Bush Road and the top of the slope that is entirely pervious, and the rip rapped embankment that is somewhat pervious due to voids between the rocks. The only man-made structure at the site other than the rip rap is the 36" sewer main, which lies approximately nine feet below the ground. An extensive amount of trash, furniture, and animal carcass dumping has taken place in the weedy area, as Bush Road is somewhat secluded and vehicles can drive right up to the area from the road to dump materials.

To accomplish the project goals, existing toe protection and bank stabilization methods will be removed or adjusted where necessary and additional rock support and bioengineering techniques will be utilized to protect the sanitary sewer main and prevent further bank erosion. As the project involves the placement of rip rap over an area that has already been mostly rip rapped, and since there will be numerous voids between the rocks, the proposed work will not result in any net gain or loss in impervious surface.



CL SAN. MH 62095
TRAV. PT. 95

CL SAN. MH 62094
TRAV. PT. 94

REMOVE WOODY DEBRIS FROM POINT BAR WITHIN THE L.O.D.
NO CONSTRUCTION EQUIPMENT SHALL CROSS BYNUM RUN
FOR THE REMOVAL OF WOODY DEBRIS.

NOTES:

1. 100 YR FLOOD FEMA ELEVATION IS 15.0'.
2. NO STOCK PILE IS ALLOWED IN THE 100 YEAR FLOOD PLAIN.
3. NO CONSTRUCTION EQUIPMENT SHALL CROSS BYNUM RUN FOR THE REMOVAL OF WOODY DEBRIS.
4. SEE SHEET 6 OF 6 FOR CROSS-SECTIONS.
5. EXTREME CAUTION SHALL BE USED FOR CONSTRUCTION NEAR EXISTING 36" SANITARY SEWER. MINIMUM CLEARANCES SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION AS SHOWN ON STONEBANK STABILIZATION DETAIL.
6. IN-STREAM WORK IS PROHIBITED FROM FEBRUARY 15 - JUNE 15.
7. CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY TRASH/RUBBISH WITHIN L.O.D. PRIOR TO ANY CONSTRUCTION.
8. EXCAVATIONS WITHIN THE STREAM SHALL BE PERFORMED IN A DRY CONDITION BY USE OF COFFERDAMS.
9. AT TIME OF TOPOGRAPHIC SURVEYS, BASEFLOW WAS AT ELEV. 5.0. BASEFLOW ELEVATION VARIES AND IS DEPENDENT ON WEATHER AND OTHER HYDROLOGIC CONDITIONS.
10. CONTRACTOR SHALL CONTINUOUSLY MONITOR WEATHER FORECASTS DURING WORK ACTIVITIES WITHIN COFFERDAM AND SHALL SCHEDULE WORK WITHIN COFFERDAM DURING FAVORABLE WEATHER CONDITIONS. CONTRACTOR SHALL PREVENT STORMWATER/FLOOD WATERS FROM ENTERING COFFERDAM.
11. CONTRACTOR SHALL USE ANY MEANS NECESSARY TO PREVENT ANY SOIL/MATERIAL WHICH SUPPORTS THE EXISTING 36" INTERCEPTOR SEWER FROM BEING UNDERMINED THROUGHOUT THE CONSTRUCTION DURATION.
12. ALL EXISTING RIPRAP STONE NOT TO BE USED FOR CONSTRUCTION AND STONE WHICH EXISTS BEYOND LIMITS OF STONE BANK STABILIZATION SHALL BE REMOVED AND DISPOSED OF.
13. THE CONTRACTOR SHALL EXERCISE CARE IN ACTIVITIES INVOLVING EITHER CUT AND FILL OR GRADING IN THE VICINITY OF TREES THAT ARE TO REMAIN AT THE CONSTRUCTION SITE. ALL EARTH CUTS AND ACTIVITIES IN THE VICINITY OF TREES TO REMAIN SHALL BE MADE IN A MANNER THAT DOES NOT DISTURB THE CRITICAL ROOT ZONE WITHIN THE DRIP-LINE OF THE TREE. PROTECTIVE FENCING SHALL BE INSTALLED AROUND THE PERIMETER OF THE CRITICAL ROOT ZONE PRIOR TO CONSTRUCTION. PROTECTIVE ORANGE FENCING SHALL BE 4 FEET HIGH. BLAZE ORANGE POLYETHYLENE PLASTIC WITH 2 INCH BY 2 INCH WOOD POSTS STAKED AT 10 FOOT INTERVALS UNLESS OTHERWISE DIRECTED BY THE OWNER.

EX. SWALE APPROXIMATELY 2' DEEP
TO BE BACKFILLED TO MATCH EX.
GROUND ELEVATIONS DIRECTLY
ADJACENT TO THE SWALE

APPROXIMATE
100' CRITICAL
AREA BUFFER

BANK STABILIZATION SCHEDULE	
TYPE	BASELINE STATIONS
STONE BANK PROTECTION	0+90 TO 2+90
LIVE STAKES	2+90 TO 3+42

LEGEND

- LOD — LIMIT OF DISTURBANCE
- CFD — COFFERDAM
- SCE — STABILIZED CONSTRUCTION ENTRANCE
- ▣ RPS REMOVABLE PUMPING STATION
- ▣ PST PORTABLE SEDIMENT TANK
- ↑ HP DRAINAGE DIVIDE (HIGH POINT)

NOTE: ALL SOILS WITHIN THE PROPOSED LIMIT OF WORK
ARE Cu - CODORUS SILT LOAM.

TRAFFIC/ TRANS	W/S ENGINEERING
SEDIMENT CONTROL	W/S ADMINISTRATION
HI-WAY CONST. PERMITS	LAND ACQUISITION
W/S MAINT./OPER.	W/S DESIGN REVIEW
W/S INSPECTIONS	W/S ENGR. PLANNING

SCALE: 1" = 20'

HARFORD COUNTY MARYLAND	HARFORD COUNTY WATER AND SEWER DIVISION	SITE GRADING AND EROSION AND SEDIMENT CONTROL PLAN	BYNUM RUN INTERCEPTOR SEWER STREAMBANK STABILIZATION CONTRACT # 6595	 KCI TECHNOLOGIES ENGINEERS AND PLANNERS 10 NORTH PARK DRIVE HELVETIA, MARYLAND 21050-1888 (410) 356-7000	DESIGNED MSR, DJG TRACED RW, JS CHECKED KBR	ELECT. DIST. NO. 62 POSITION SHEET 2 OF 6	SHEET NO. 2 J.O. FILES
	DATE	DATE	DATE	DATE	DATE	DATE	DATE