PERMANENT SEEDING NOTES SEEDBED PREPARATION: Loosen upper three inches of sell by relating display or other acceptable means before seeding, if not previously loosened.

1) Preferred— Apply 2 tons per sore dolomitic limestone (82 lbs/100 sq.ft.) and 800 lbs per sore 10—10—10 fertilizer (14 lbs./1000 sq.ft.) before seeding. Herrow or disc into upper three inches of sell. At the time of seeding, apply 400 lbs. per sere 30—0—0 unseform fertilizer (9 lbs./1000 sq.ft.)

2) Accestable-- Apply 2 tons per acre delematic limestone (82 lbs/ 1000 sq.ft.) and apply 1000 lbs. per ocre 10-10-10- furtilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper

IG: For the periode March 1 thru April 30, and August 1 thru or 15, seed with 60 lbs. per core (1.4 lbs/1000 sq.ft.) of sky 31 Tall Feecue. For the period May 1 thru July 31, seed 0 lbs. Kentucky 31 Tall Feecue per eare end 2 lbs. per eore se./1000 sq.ft.) of weaping lovegrees. During the period of rr 16 thru February 28, protect alto by: Option (1) 2 tens per sell enchored strew mulch and seed as soon as possible in the Option (2) Use sod. Option (3) Seed with 80 lbs/sore Kentucky II Feecue and mulch with 2 tons/sore well anahored strew.

MULCHING: Apply 1 1/2 to 2 tons per core (70 to 90 lbs/1800 sq. ft.) of unretted smell grain etrew immediately after seeding. Anoher mulch immediately after application using mulch enchaning tool or 218 gallene per core (5 gal/1000 sq.ft.) of emulaified application flet crops. On slapes 8 feet or higher, use 348 gallene per core (8 gal/1000 sq.ft.) for anchoring.

TEMPORARY SEEDING NOTES

SEEDING: For periode March 1 thru April 30 and from August 15 thru November 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 levegrees (.07 lbs./1000 sq.ft.). For the period November 1 thru February 26, protect alte by applying 2 tene per acre of well anchored straw mulch and seed as seen as possible

MULCHING: Apply 1 1/2 to 2 tone per care (70 to 90 lbs./1000 eq.ft.) of unrotted small grain straw immediately after seeding. Anoher much immediately after application using muleh aspharing teal or 218 gallens per care (5 gal/1000 sq.ft.) of emulative asphart on flat eress. On slopes 8 feet or higher, use 348 gallons per care (8 gal/1000 sq.ft.) for anchoring.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR MATE AND METHODS NOT

SEDIMENT AND EROSION CONTROL NOTES A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (\$92-2437).

All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1963 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL.

Following initial soil disturbance or redisturbance, permanent of a) 7 colendar days for all perimeter sediment control stuctures, diline, perimeter slopes and all slapes greater than 3:1 b) 14 days as to all other disturbed or graded areas on the

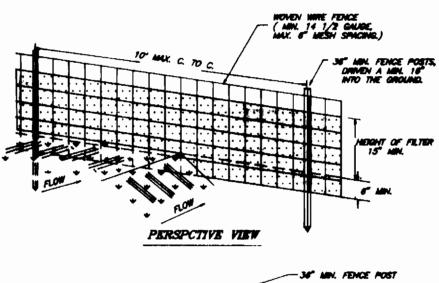
All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol.1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Starm

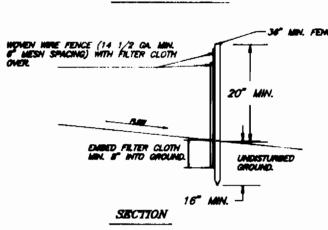
All disturbed areas must be stabilized within the time period apecified above, in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec.51), sod (Sec.54), temporary seedings (Sec.50) and mulching (Sec.52). Temporary stabilization with mulch alone can only be done when recommended reading distance do not other for purpose. when recommended seeding detail do not allow for proper germination and establishment of greeces.

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

Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

of the inspection agency shall be requested upon completion of installation of perimeter erosion end sestiment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be outhorized until this initial approval by the inspection agency is made.





STANDARD SYMBOL: --- S --- S --- S

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

SILT FENCE (S) NO SCALE

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFI-CATIONS AND WITH THIS PLAN. FOR SEDIMENT CONTROL DETAILS, SEE 1983 MARYLAND STANDARDS AND SPEC-IFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL STANDARD SF-1 FOR SILT FENCE.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.
Johnson Maler 7-7-94 SIGNATURE DATE

U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

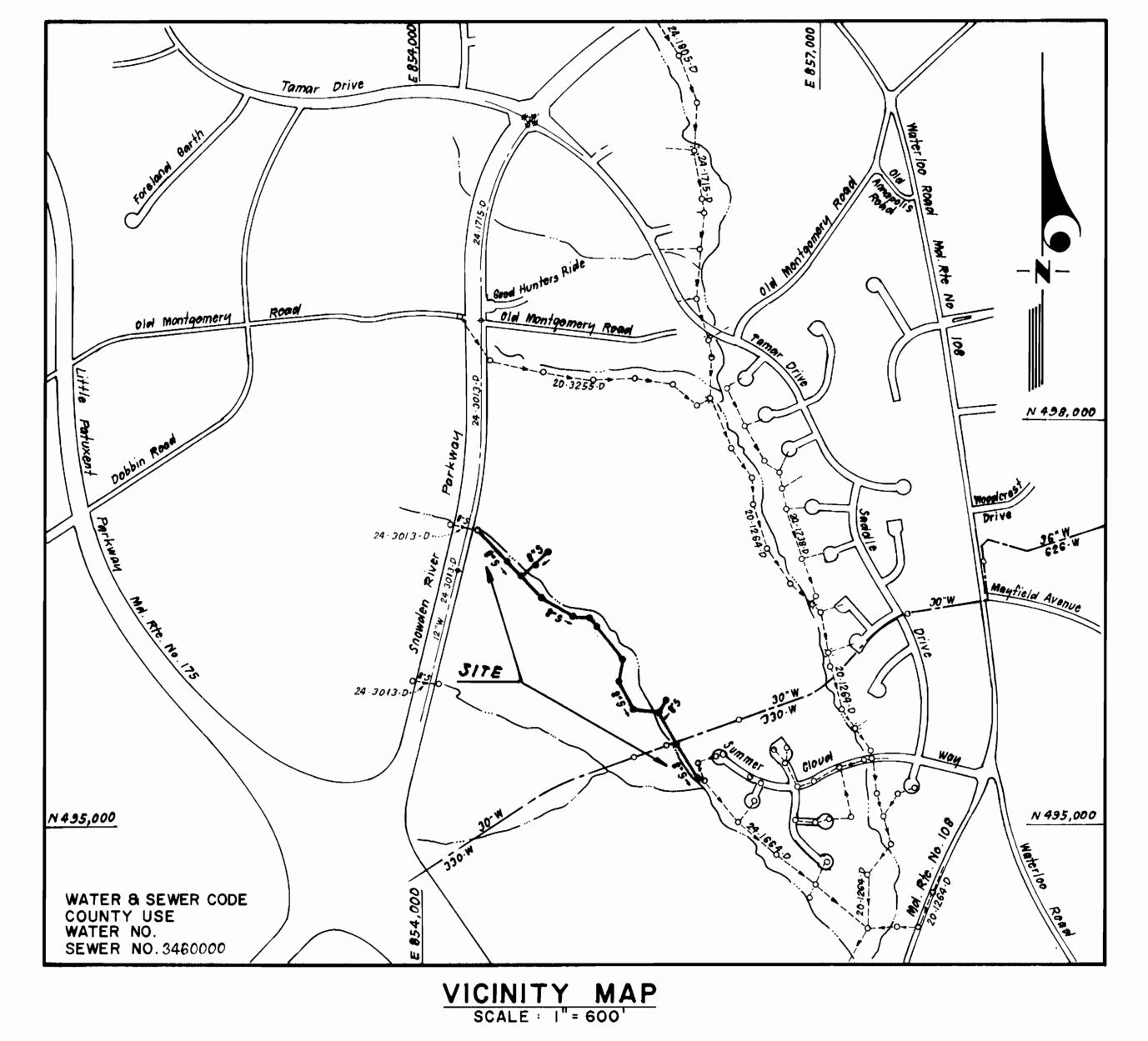
Howard S.C.D.

Install Sediment Control Devices Obtain approval of Sediment Control Inspector before proceeding with

Install 8" Sewer, placing excavated dirt on the high side of the trench

Stabilize all disturbed areas. Obtain approval of Sediment Control Inspector before removing Sediment Control Devices.

OTE: Contractor shall meet all conditions set forth in the terms of the Wetlands Permit.



CONTRACT NO. 20-3352 - D

VILLAGE OF LONGREACH SECTION 4, AREA 2, PHASE 216 SEWER OUTFALL

HOWARD

COUNTY

MARYLAND

DEPARTMENT

OF

PUBLIC

WORKS

TYPE OF BUILDING	N/A
NO. OF LOTS	N/A
NO. OF WHC's	N/A
NO. OF SHC's	N/A
DRAINAGE AREA LITTL	E PATUXENT

LITTLE PATUXENT W.W.T.P.

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 inspector, at the contractor's expense.
- 2. All horizontal controls are based on Maryland State Coordinates.
- 3. All vertical controls are based on U.S.G.S. Datum.
- 4. All pipe elevations shown are invert elevations.
- 5. Clear all utilities by a minimum of 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 unit prices bid for excavation and backfill.
- 6. For details not shown on the drawings use Howard County Standard Details. 7. For materials and construction methods use Howard County Standard Specifications & Details
- and Howard County Design Manual, Volume IV (Latest Edition) The contractor shall have copies of these on the job site. 8. Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction
- operations in the vicinity of proposed utilities at his own expense. 9. Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans.

State Highway Administration - 531 - 5533 Baltimore Gas & Electric Company - Underground Damage Control - 787-9068
Baltimore Gas & Electric Company - Contractor Services - 850-4620 Baltimore Gas & Electric Company — Trouble Shooting — 298-9001 "Miss Utility" - 1-800-257-7777 Chesapeake & Potomac (C & P) Telephone Company - 1-800-257-7777 Bureau of Utilities Howard County - 313 - 4900 Colonial Pipeline Company - 795-1390

- 10. Trees are to be protected from damage to maximum extent. Trees located within the construction strip are not to be removed or damaged by the contractor.
- 11. Contractor shall remove trees, stumps, and roots along line of excavation as directed by the Inspector Payment for such removal shall be included in the unit price bid for excavation and backfill.
- 12. Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
- 13. All water mains to be D.I.P. Class 52 unless otherwise noted.
- 14. Top of all water mains to have a minimum of 3-1/2' cover unless otherwise noted.
- 15. Valves adjacent to tees shall be strapped to tees.
- 16. Block all fittings with concrete.
- 17. Bury line elevations on fire hydrants shall be set to the elevations shown on the drawings. All fire hydrants shall be restrained and buttressed with concrete in accordance with Std. Det. WI.II & W2.II Soil around the fire hydrant to be compacted in accordance with Sections 1000 & 1005 of the Standard Specifications.
- 18. All water house connections shall be for an inside meter setting.
- 19. The contractor shall not operate any water main valves on the existing system.
- 20. All sewer mains shall be C.S.P.X., V.C.P.X., P.V.C., or D.I.P. unless otherwise
- 21. The contractor shall provide a joint in all sensy mains within 2'+0" of exterior
- 22. All manholes shall be 4'-0" inside diameter, unless otherwise noted.
- 23. Water main and water house connection lines must have a minimum of one foot separation from the sanitary sewer and sewer house connections as they cross. Except at crossings, water and sewer lines shall have a minimum horizontal separation of 10 '.
- 24. Manholes designated thus: WT, shall have a Watertight Frame and Cover.

QUANTITIES					
1764	QUANTITIES	AS BUILT			
IT EM	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER / SUPPLIER	
8"SEWER	3,131 LF.	3008 L.F.	SEE BELOW	DEE DELT W	
4.0' I.D. MH	15 EA.	IDEA	4' PRECAST	ATLANTIC PRECAST	
6" DEWER			3DR-35	JM-MFG/A-1 PIPE INC.	
8" SEWER			C-A55 52	GKIFFIN MIHE	
	1	D			
· · · · · · · · · · · · · · · · · · ·					
NAME OF UTILI	TY CONTRAC	TOR:			
			SURVEY & DR	RAFTING DIVAS BUILT DATE:	

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

7135 MINSTREL WAY COLUMBIA MARYLAND 21045 (301) 381-7500 BALTO. (301)621-8100 WASH.

CLARK . FINEFROCK & SACKETT, INC ENGINEERS . PLANNERS . SURVEYORS



	DATE	MAY 94	BY	NO.	REVISION	DATE	600'SCALE MAP NO BLOCK NO
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	CHK:	CCM					
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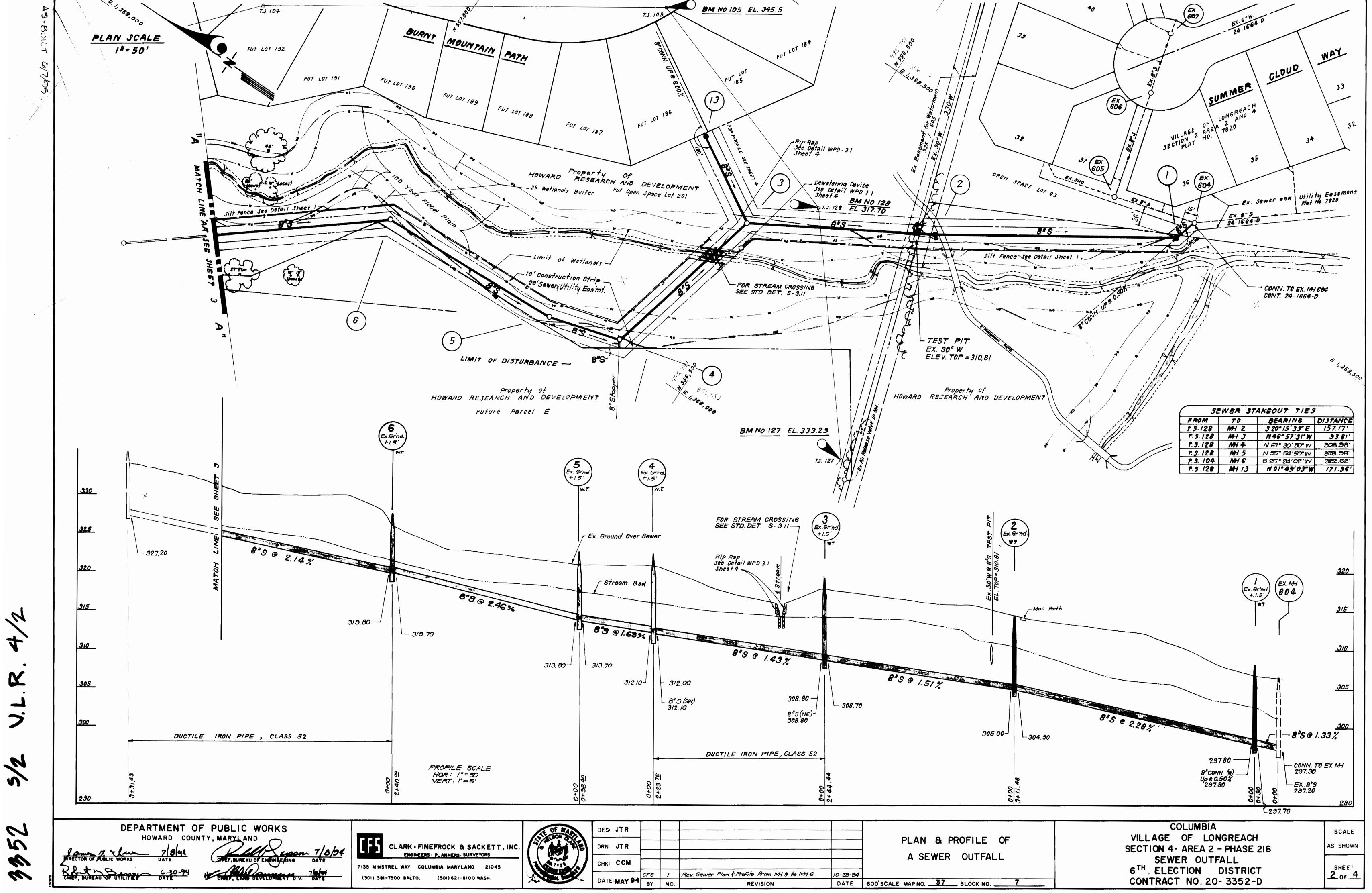
VILLAGE OF LONGREACH SEWER OUTFALL 6TH ELECTION DISTRICT

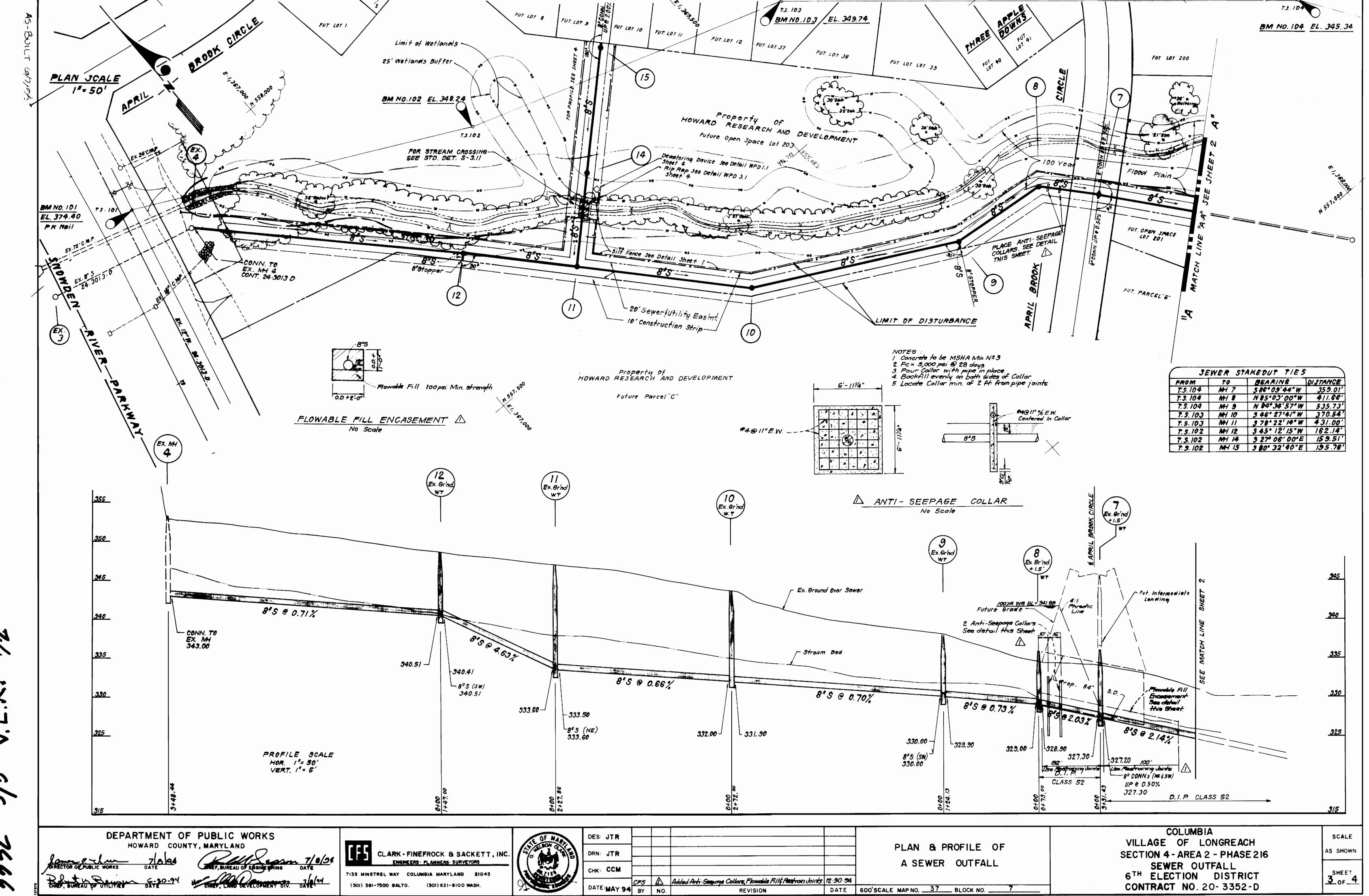
COLUMBIA SECTION 4 - AREA 2 - PHASE 216 CONTRACT NO. 20-3352-D

SCALE

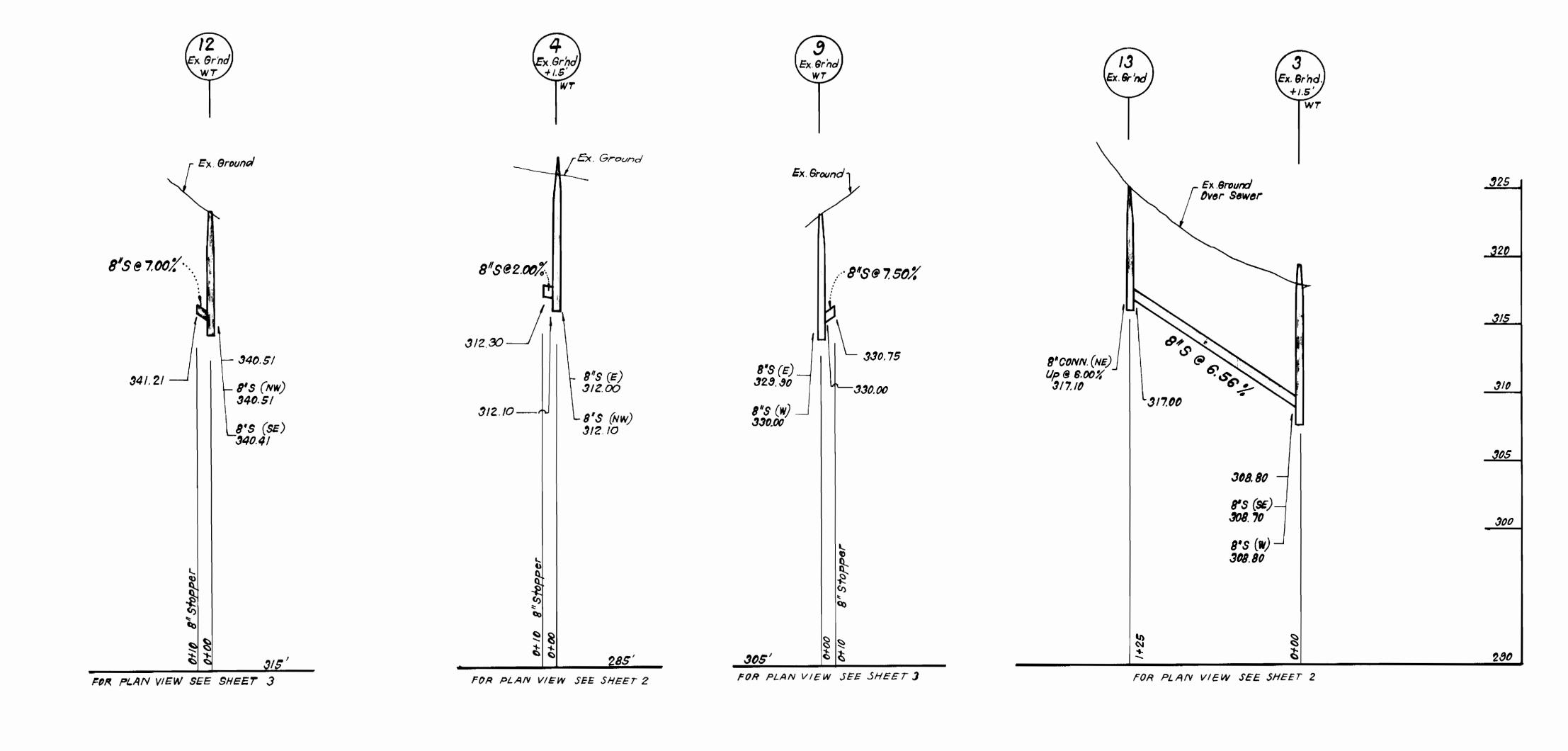
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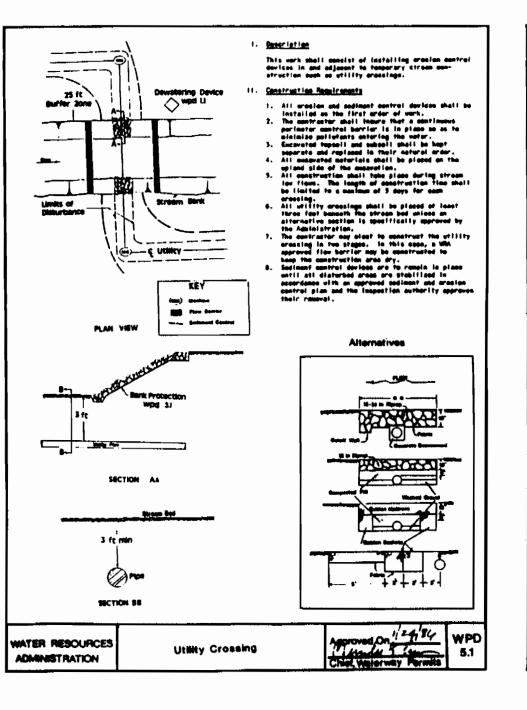
1 OF 4

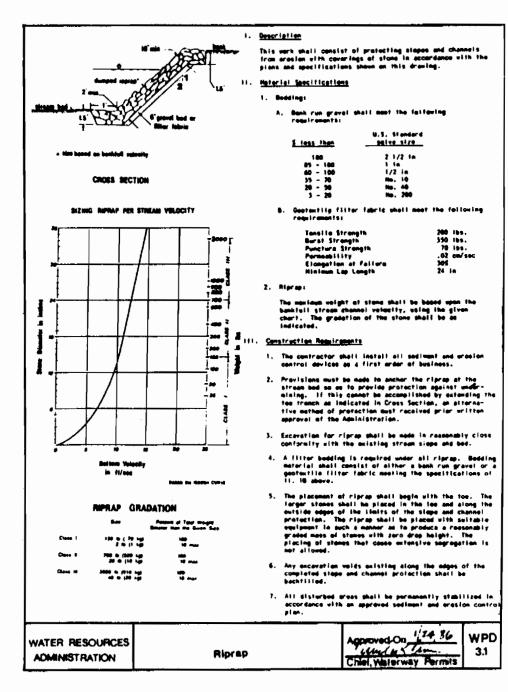


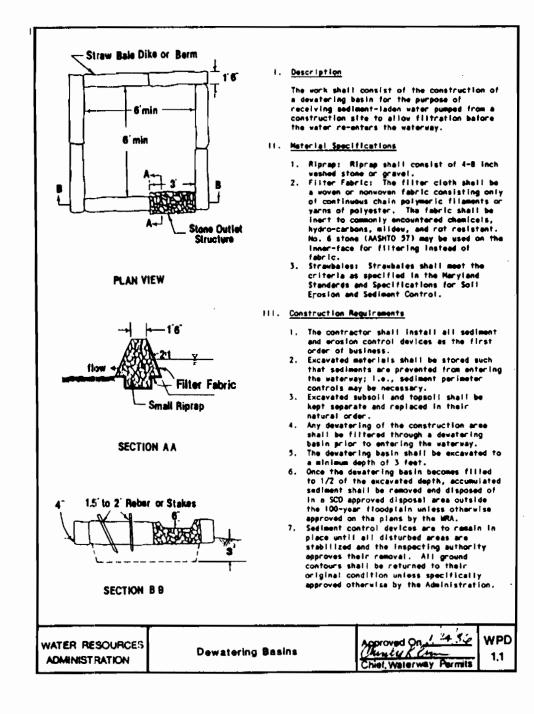


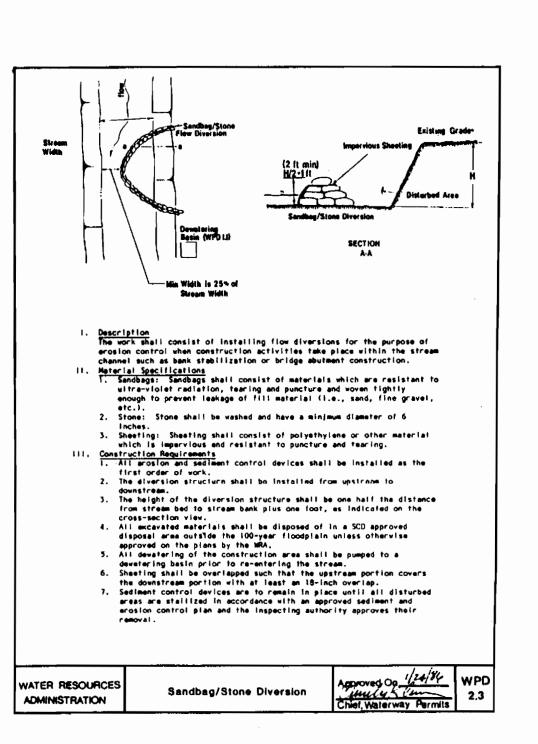


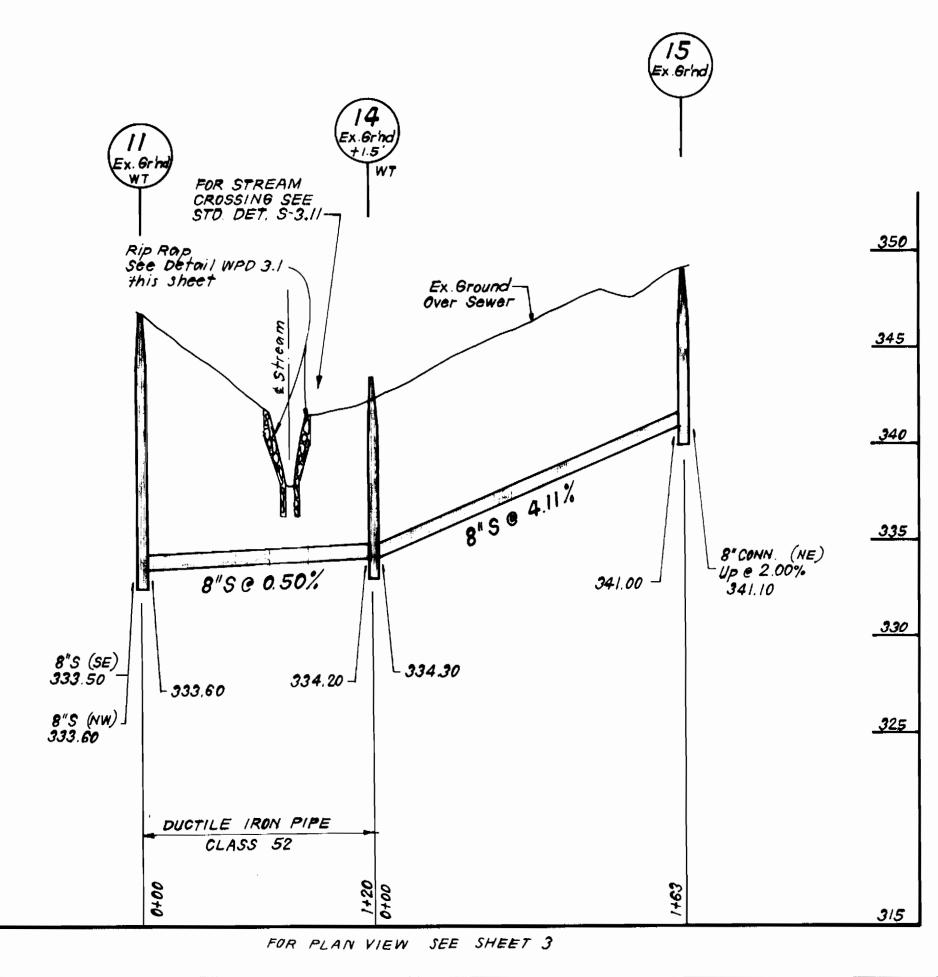














DIRECTOR OF PUBLIC WORKS DATE

CHIEF, BUREAU OF UTILITIES DATE

CHIEF, BUREAU OF UTILITIES DATE

CHIEF, LAND DEVELOPMENT DIV. DATE

CLARK - FINEFROCK & SACKETT, INC.
ENGINEERS - PLANNERS - SURVEYORS

7135 MINSTREL WAY COLUMBIA MARYLAND 21045

(301) 621-8100 WASH.

(301) 381-7500 BALTO.

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	DATE: MAY 94	BY	NO.	REVISION	DATE	600'\$
		CFS	1	Rev. Sewer @ MH 4	10-28-94	
	CHK: CCM					
E	DRN: JTR					
	DES: JTR					
•						

PROFILES OF

SEWER OUTFALL

AND W.R.A. DETAILS

SCALE MAP NO. 37 BLOCK NO. 7

PROFILE SCALE

HOR . | "= 50' VERT. | "= 5'

COLUMBIA

VILLAGE OF LONGREACH

SECTION 4 AREA 2 PHASE 216

SEWER OUTFALL

6TH ELECTION DISTRICT

CONTRACT NO. 20 · 3352 · D

SCALE
AS SHOWN
SHEET
4 OF 4