

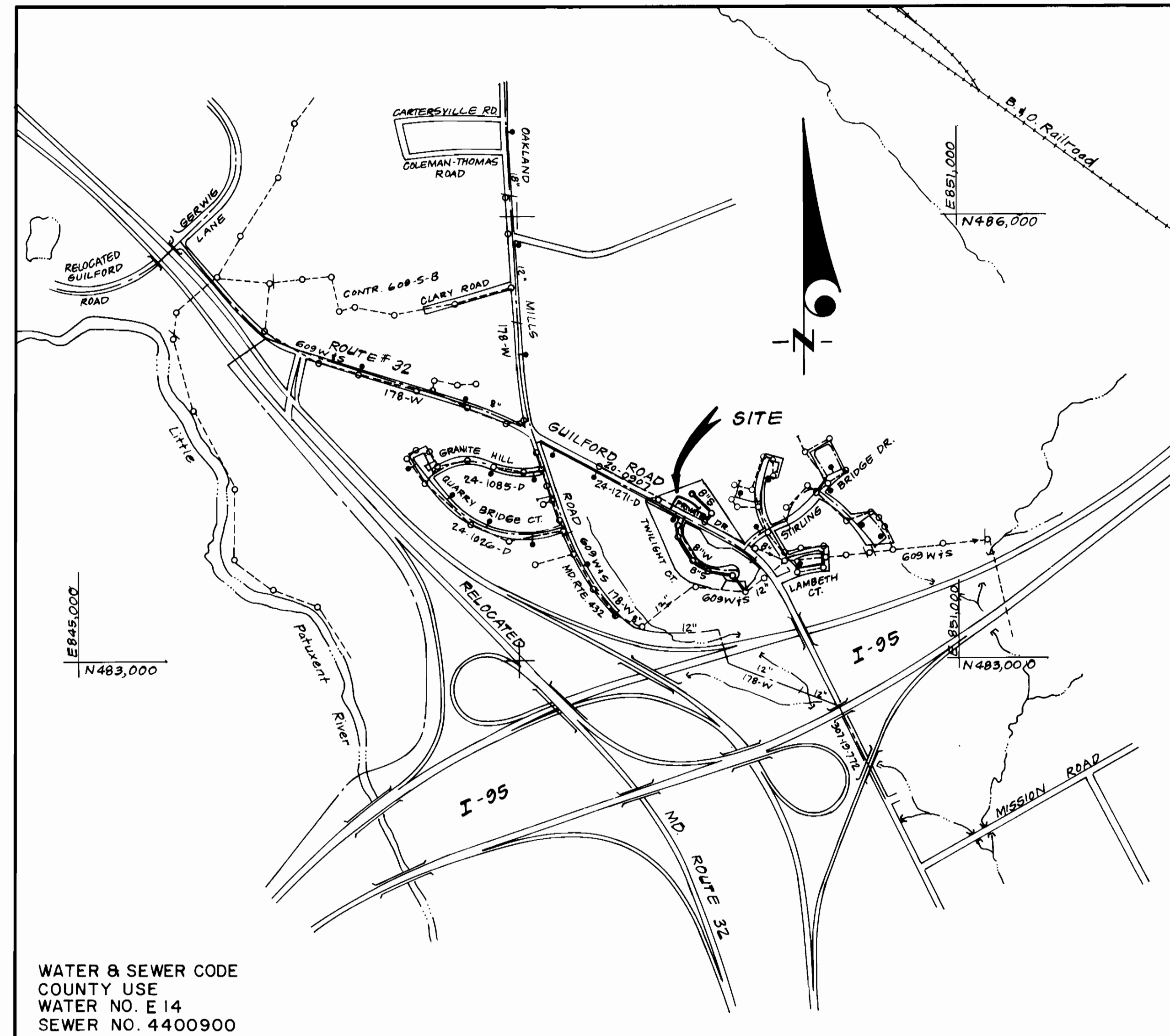
SEWER HOUSE CONNECTION TABLE

LOTS	Inv. @ R	Min. C.	LOTS	Inv. @ R	Min. C.
15	333.3	337.3	31	321.9	325.7
16	333.1	336.6	32	322.1	325.5
17	332.4	335.7	33	322.3	325.8
18	331.6	335.0	34	321.9	325.7
19	329.8	333.2	35	322.2	325.7
20	328.7	332.1	36	324.4	327.9
21	327.6	331.0	37	327.0	330.6
22	326.6	330.4	38	329.2	332.9
23	324.6	328.4	39	330.1	333.8
24	323.4	327.1	40	332.0	335.2
25	321.9	325.6	41	333.5	337.1
26	321.3	325.1	42	346.1	349.5
27	321.1	325.1	43	346.0	349.6
28	314.8	318.2	44	345.2	348.8
29	311.9	315.5	45	347.4	350.7
30	320.6	324.6	46	340.5	343.5
			47	337.9	341.5

TYPE OF BUILDING	SINGLE FAMILY HOUSES
NO. OF LOTS	33
NO. OF WHC's	33
NO. OF SHC's	33
DRAINAGE AREA	LITTLE PATUXENT

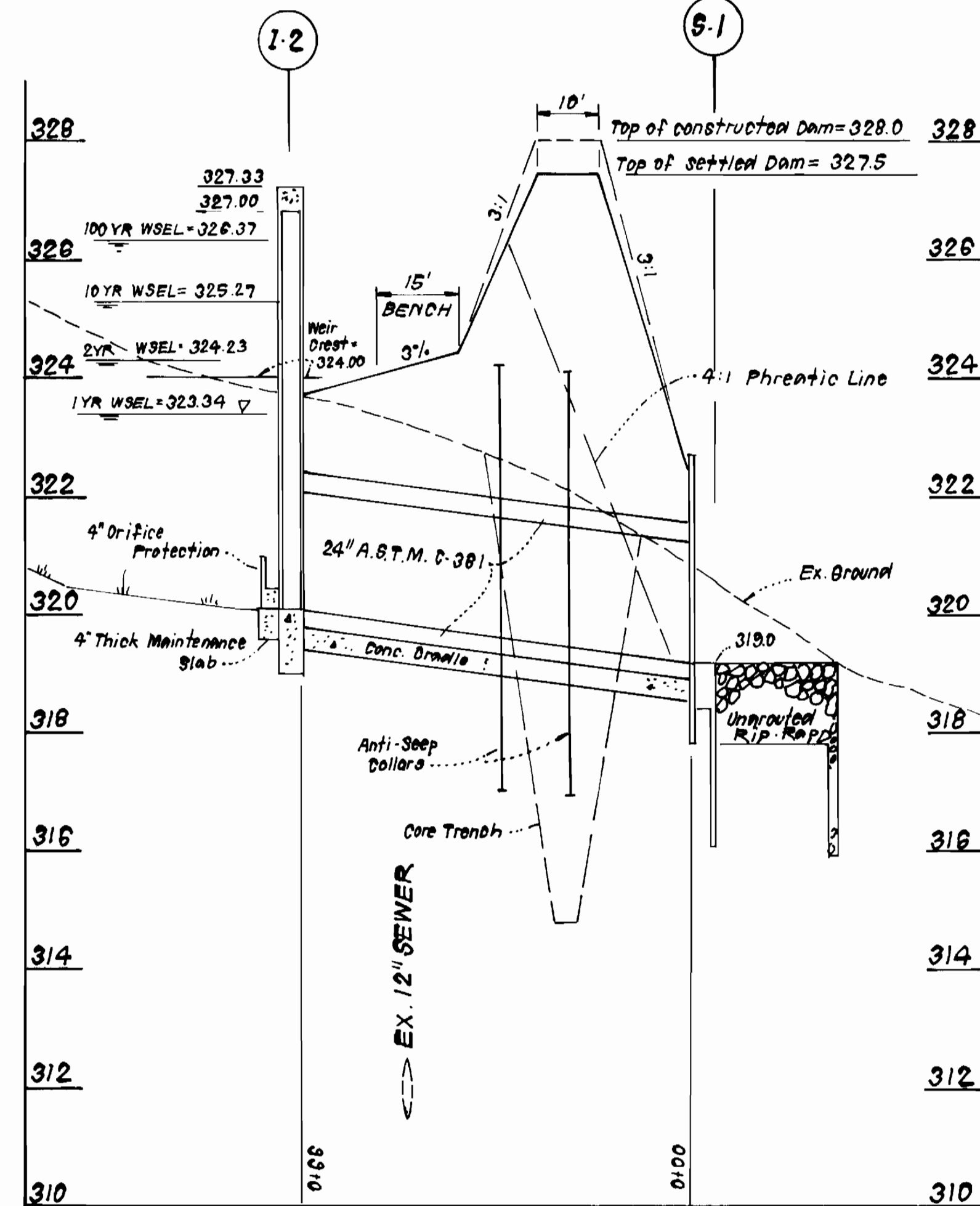
GENERAL NOTES

- 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 Inspector, at the contractor's expense.
- All horizontal controls are based on Maryland State Coordinates.
- All vertical controls are based on U.S.G.S. Datum.
- All pipe elevations shown are invert elevations.
- 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.
- For details not shown on the drawings use Howard County Standard Details.
- For materials and construction methods use Howard County Standard Specifications and Howard County Design Manual, Volume IV, 1991 Amendments. The Contractor shall have Volume IV, 1991 Amend. on the job site.
- 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.
- 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 - 859-9004
 - 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
- 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.
- 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.
- 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.
- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Top 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.
- Block all fittings with concrete.
- Bury line elevations on fire hydrants shall be set to the elevations shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with standard details. Soil around the fire hydrant to be compacted in accordance with Sections 1000 & 1005 of the Standard Specifications.
- All water house connections shall be for an inside meter setting.
- The contractor shall not operate any water main valves on the existing system.
- All sewer mains shall be C.S.P.X., V.C.P.X., or P.V.C. unless otherwise noted.
- The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
- All manholes shall be 4'-0" inside diameter, unless otherwise noted.
- 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'.
- Manholes designated thus: WT, shall have a Watertight Frame and Cover.



VICINITY MAP
SCALE: 1" = 600'

CONTRACT NO. 24-3039-D
MAPLESIDE
VILLAGE OF KINGS CONTRIVANCE
SECTION 5 AREA 4
LOTS 15 THRU 49
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS



PROFILE THRU SPILLWAY
SCALE: HOR. 1" = 20', VERT. 1" = 2'

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Road Construction Plan F 91-52; Drawing, Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
John R. Roberts 3/8/91
SIGNATURE DATE
U.S. SOIL CONSERVATION SERVICE

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

APPROVED:
John R. Roberts 3/8/91
Howard S.C.D. DATE

QUANTITIES			
ITEM	EST'D	AS BUILT	MANUFACTURE / MATERIAL / SUPPLIER
1 8" S-	1,047 L.F.	(B) 1038 L.F.	L.M. MANUFACTURING CO. BRS BELAIR RD. SUPPLY, 7750 PULASKI HIGHWAY BALTIMORE MD 21287
2 4" SHC-	810 L.F.	(A) 820 L.F.	L.M. MANUFACTURING CO. " " " " " " " " " " " "
3 4'-0" Manholes	9 EA.	9 EA.	ATLANTIC CONCRETE PRODUCTS INC. 10513 BEAVER DAM RD. GREENVILLE MD 21040
4 8" W-	654 L.F.	(S) 654 L.F.	GRIFFIN PIPE PRODUCTS CO. AMSTED IND INC FLORENCE, MD 21034
5 6" W	393 L.F.	(U) 404 L.F.	" " " " " " " " " " " "
6 6" V (excl. valves)	1 EA.	1 EA.	MUELLER COMP/BRS BELAIR RD SUPPLY CO 7750 PULASKI HIGHWAY BALTIMORE MD 21287
7 F.H.	3 EA.	3 EA.	" " " " " " " " " " " "
8 12"x8" T.S.#V.	2 EA.	2 EA.	" " " " " " " " " " " "
9 1" WHC -	292 L.F.	(B) 425 L.F.	HONELL METALS/BRS BELAIR RD SUPPLY CO. " " " " " "
10 3/4" WHC -	355 L.F.	(B) 274 L.F.	HONELL METALS/BRS BELAIR RD SUPPLY CO. " " " " " "

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
John R. Roberts 3/3/91
DIRECTOR OF PUBLIC WORKS DATE
John R. Roberts 3-6-91
CHIEF, BUREAU OF UTILITIES DATE
John R. Roberts 3/6/91
CHIEF, LAND DEVELOPMENT DIV. DATE

CLARK FINEPROCK & SACKETT, INC.
ENGINEERS - PLANNERS - SURVEYORS
7135 MINSTREL WAY COLUMBIA MARYLAND 21045
(301) 381-7500 BALTO. (301) 621-8100 WASH.

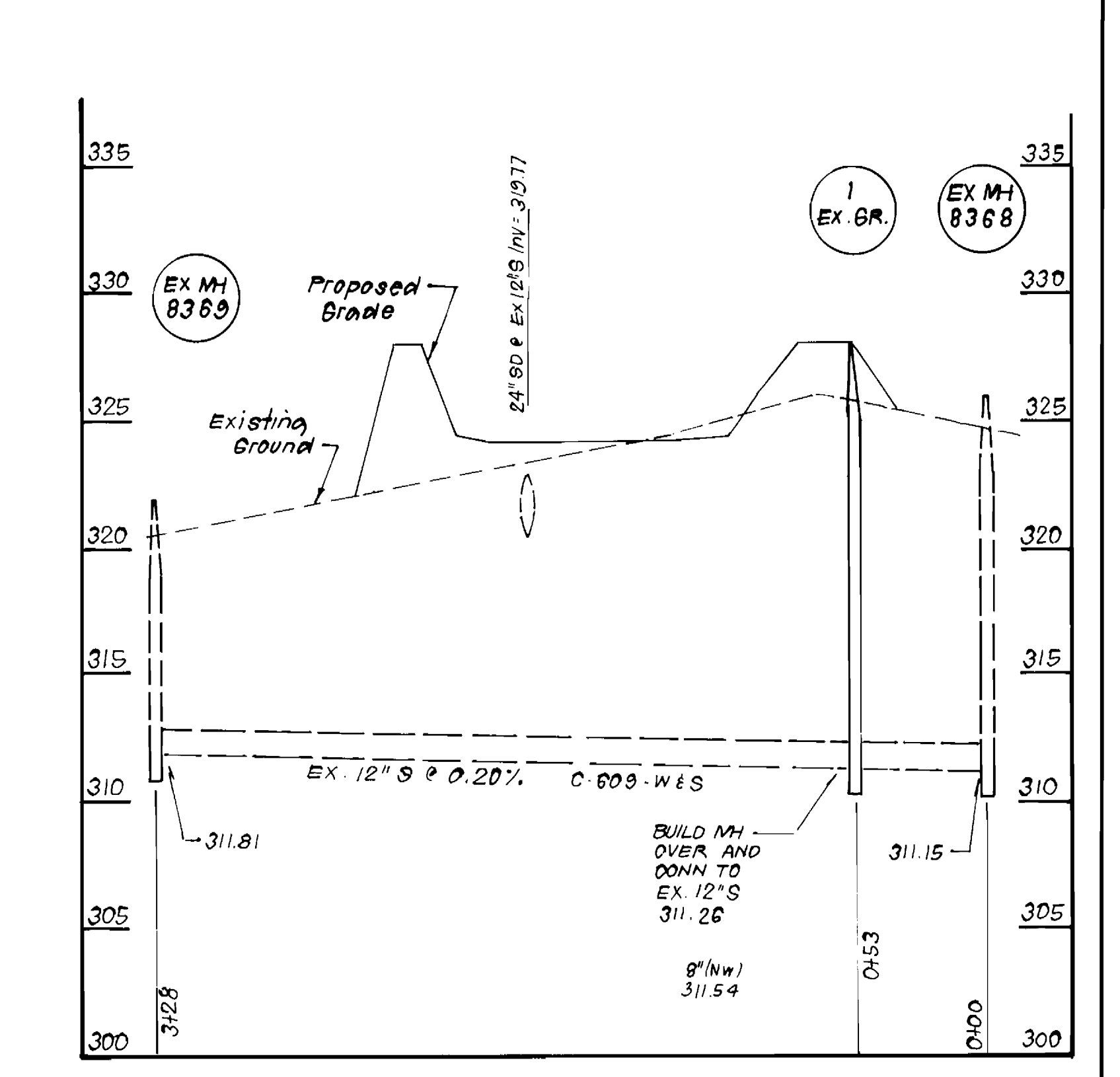
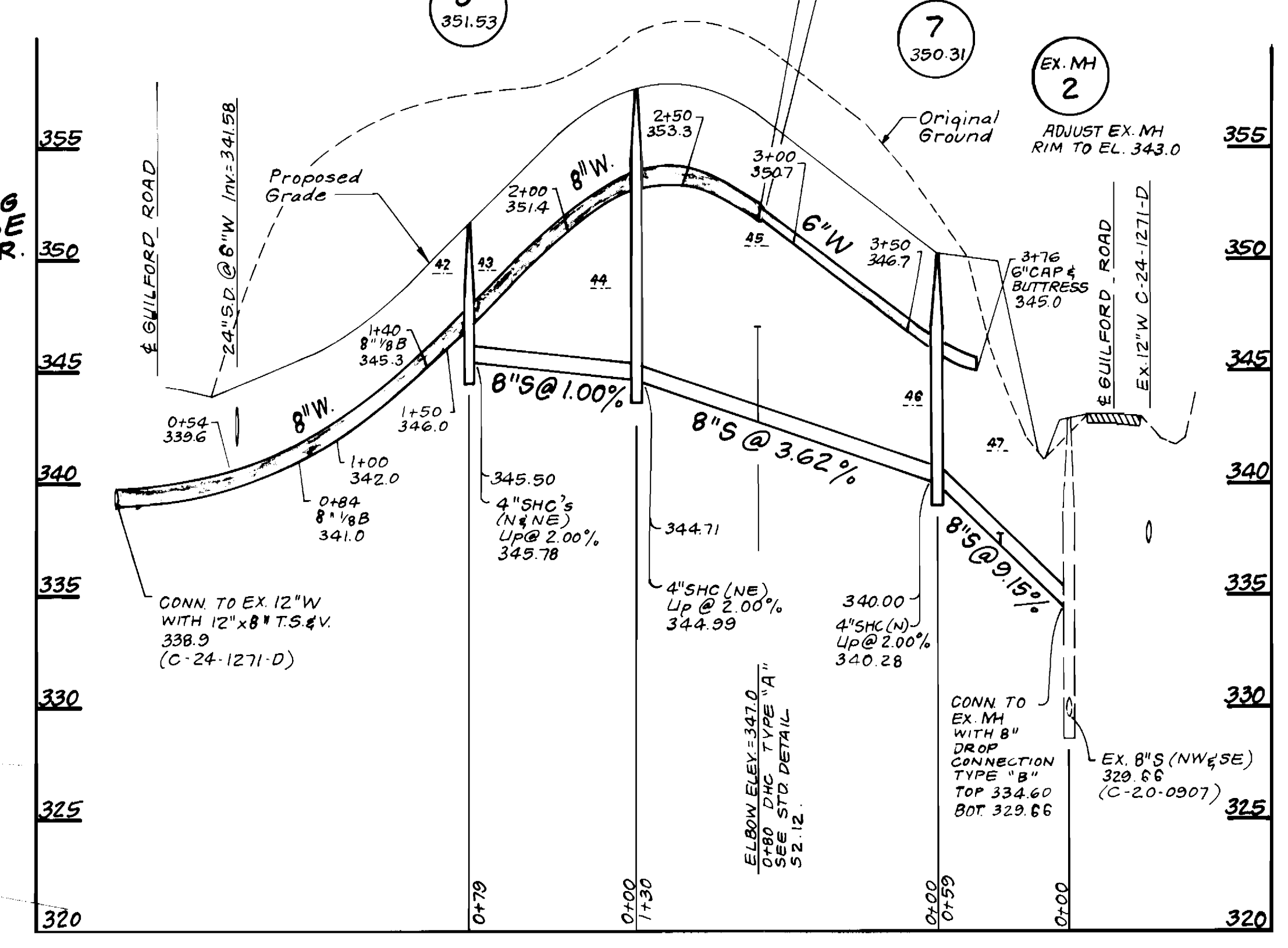
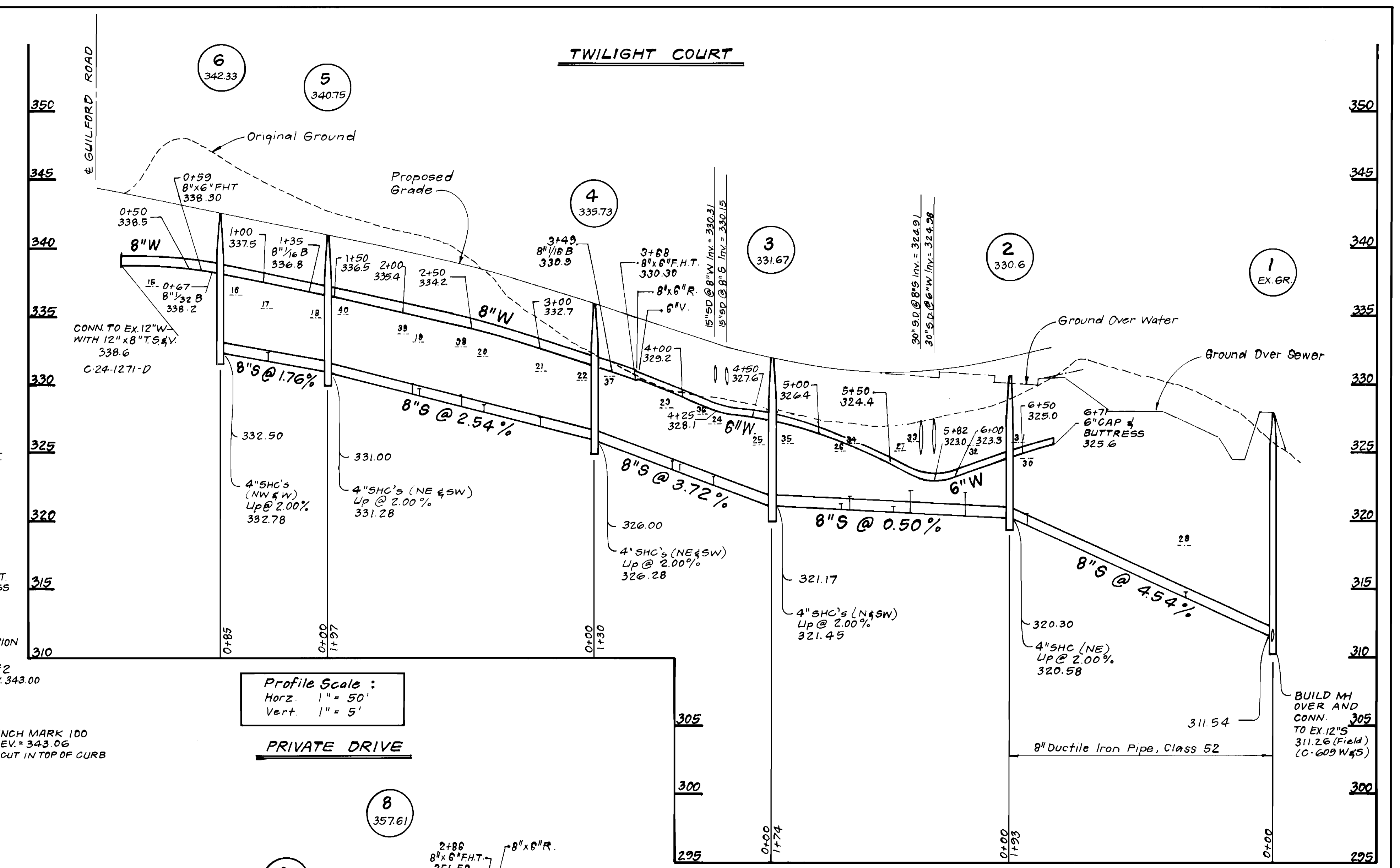
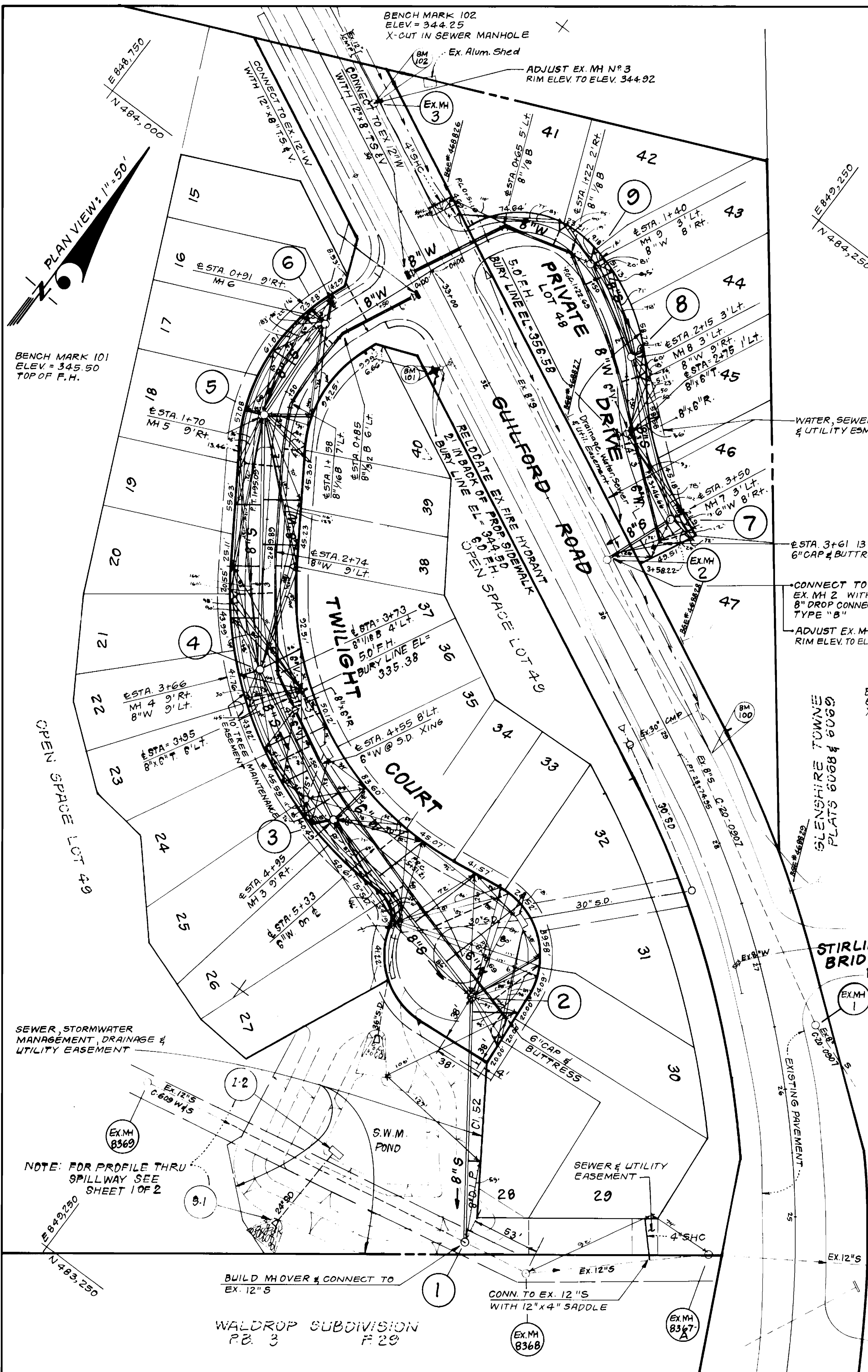


DES: JTR
DRN: VLM
CHK: JTR
DATE: 10/2/90
BY NO. REVISION DATE

TITLE SHEET
600' SCALE MAP NO. 42 BLOCK NO.

MAPLESIDE
COLUMBIA, VILLAGE OF KINGS CONTRIVANCE
SECTION 5 AREA 4, LOTS 15 THRU 49
6TH ELECTION DISTRICT
CONTRACT NO. 24 - 3039-D

SCALE AS SHOWN
SHEET 1 OF 2



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: [Signature] 3/13/91
Chief, Bureau of Engineering: [Signature] 3/14/91
Chief, Bureau of Utilities: [Signature] 3-6-91
Chief, Land Development Div.: [Signature]

CLARK · FINEPROCK & SACKETT, INC.
ENGINEERS · PLANNERS · SURVEYORS

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DES: JTR	DATE: 10/2/90
DRN: VLM	BY: NO.
CHK: JTR	REVISION
	DATE

WATER AND SEWER PLAN & PROFILES

600' SCALE MAP NO. 42 BLOCK NO.

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COLUMBIA, VILLAGE OF KINGS CONTRIVANCE
SECTION 5 AREA 4, LOTS 15 THRU 49
6TH ELECTION DISTRICT
CONTRACT NO. 24 - 3039-D

SCALE AS SHOWN
SHEET 2 OF 2