

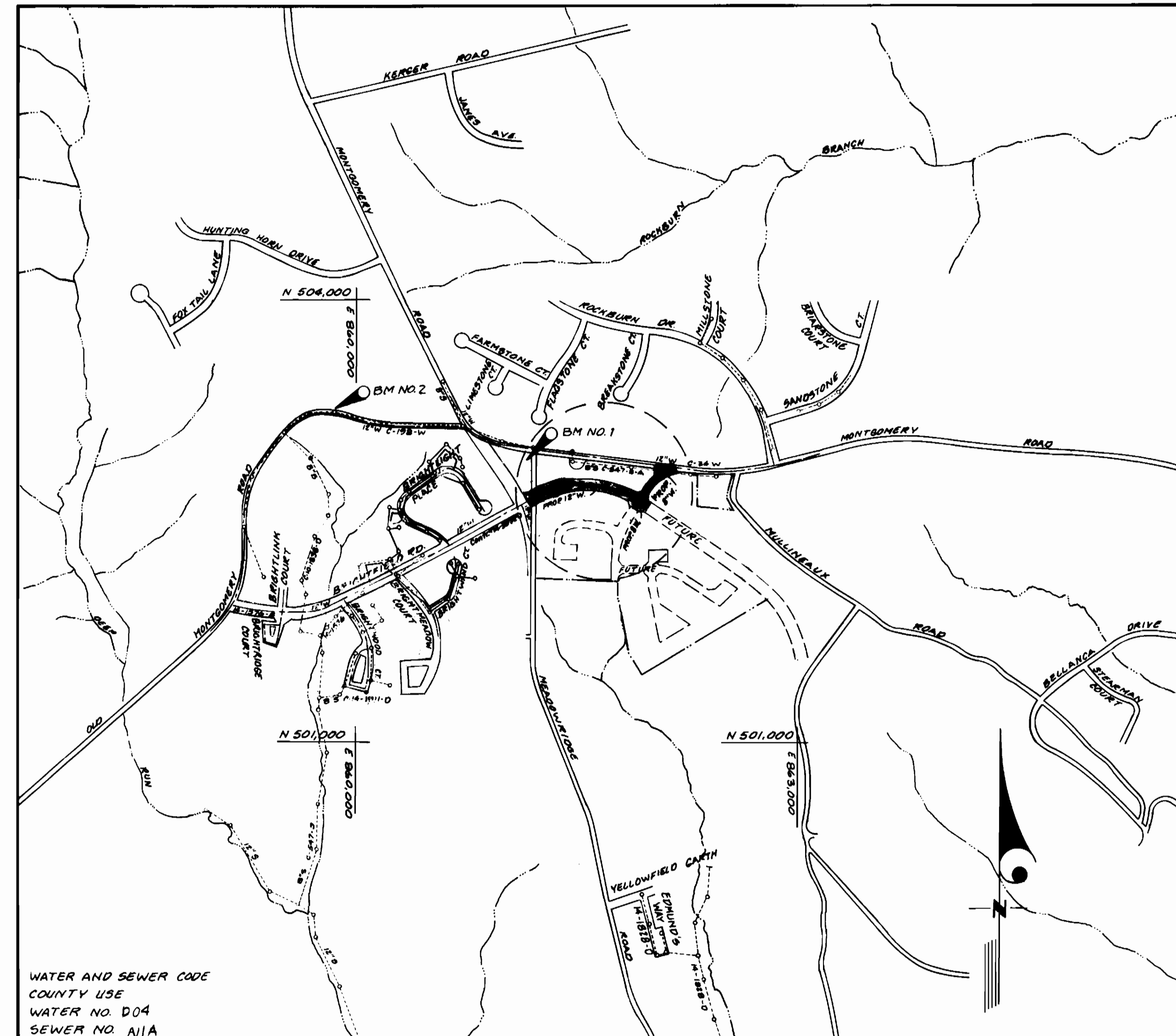
GENERAL NOTES

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 and Howard County Design Manual, Volume IV, 1989 Amendments. The Contractor shall have Volume IV, 1989 Amend. 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 - 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 - 795-1590

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 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.
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., or P.V.C. unless otherwise noted.
21. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
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.
25. All D.I.P. fittings shall be in accordance with A.W.W.A. specification C-153 Ductile Iron Compact Fittings, 3-inch through 12-inch for water and other liquids.
26. All sewer house connections shall be 4" dia.

NOTE: It is understood that the developer will obtain another design for water main extension satisfactory to the County, if council resolution on the relevant closings of a portion of Montgomery Road is not obtained, and if approval from the Director of Public Works and the State Highway Administration on the proposed geometry of Montgomery Rd. & its networking is not obtained. The new design must be



WATER AND SEWER CODE
 COUNTY USE
 WATER NO. D04
 SEWER NO. N/A

TYPE OF BUILDING: N/A
 NO. OF LOTS: 0
 NO. OF WHC: 0
 NO. OF SHC: 0
 DRAINAGE AREA: PATAPSCO

VICINITY MAP
 SCALE: 1" = 400'

BENCH MARK NO. 1 ELEV. 411.43
 TOP OF F.H. AT 325' NORTH OF INTERSECTION
 OF MD. ROUTE 103 AND BRIGHTFIELD ROAD
 BENCH MARK NO. 2 ELEV. 401.07
 TOP OF F.H. N. SIDE OF OLD MONTGOMERY RD
 1350' WEST OF BM NO. 1

QUANTITIES			
ITEM	EST'D	AS BUILT	MATERIAL / SUPPLIER
8" W	344 LF	302 LF	ATLANTIC STATES WATERPRO
12" W	524 LF	845 LF	" " " "
12" CAP & BUTT.	1 EA	1 EA	UNION FOUND. / "
8" CAP & BUTT.	1 EA	1 EA	" " " "
12" X 8" T. (4WAY)	1 EA	1 EA	" " " "
8" V	1 EA	1 EA	MUELLER CO. / "
12" V	1 EA	1 EA	" " " "
8" TAPPING SLEEVE AND VALVE	1	1 EA	" " " "
1/2" 8" BEND	1	1 EA	UNION FOUND. / "
12" X 6" FHT	1	1 EA	" " " "
FIRE HYDRANT	1	1 EA	MUELLER CO. / "

Coordinated with 275 road redesign, E-91-125

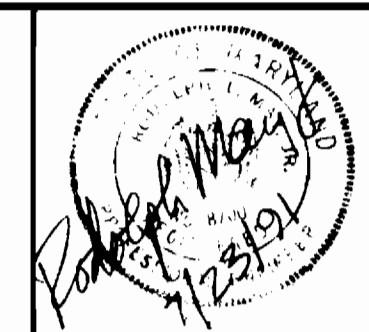
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS. F-91-125
John R. Stewart 11-12-91
 SIGNATURE DATE
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
John R. Stewart 11/8/91
 SIGNATURE DATE
 HOWARD S.C.D.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATION & FINAL RD. CONSTRUCTION PLANS. F-91-125

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
John R. Stewart 11/3/91
 DIRECTOR OF PUBLIC WORKS DATE
John R. Stewart 11/4/91
 CHIEF - BUREAU OF UTILITIES DATE
John R. Stewart 11/18/91
 CHIEF - LAND DEVELOPMENT DATE
 D:VISION

LAND DESIGN ENGINEERING, INC.
 10620 GUILFORD ROAD
 SUITE 210
 JESSUP, MARYLAND 20794
 (301) 604-6264
 (301) 880-0084



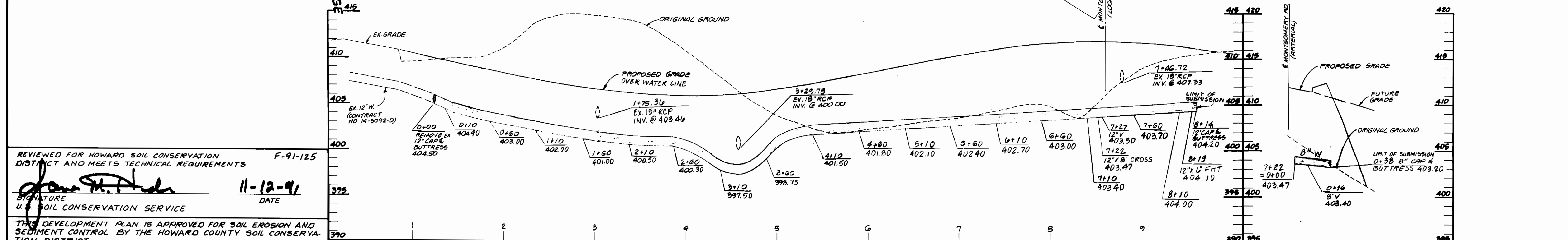
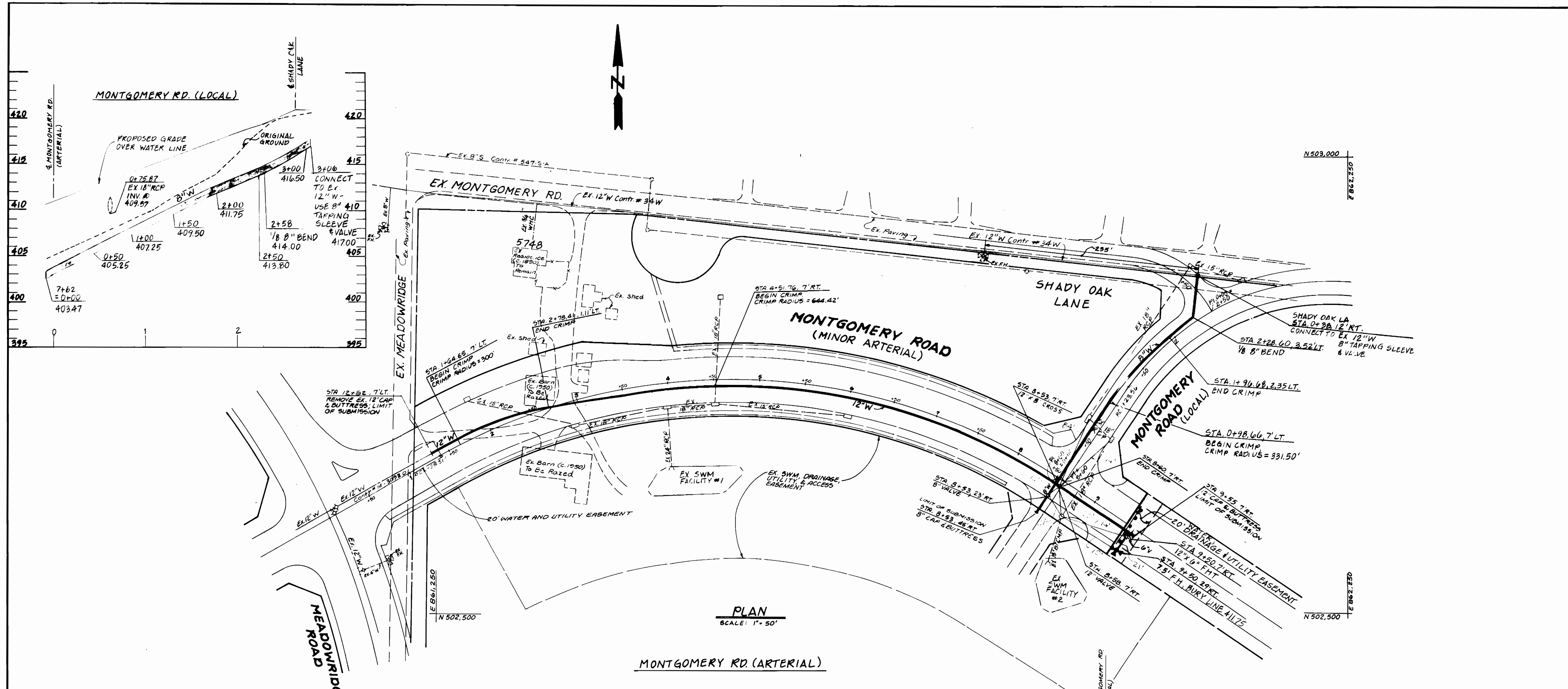
DES: L.M.			
DRN: H.W/WJ			
CHK: R.L.M.			
DATE: 7/91			
BY NO.		REVISION	DATE

TITLE SHEET

600 SCALE MAP NO. 32 BLOCK NO. 3

MONTGOMERY ROAD IMPROVEMENTS
 1ST ELECTION DISTRICT
 CONTRACT NO. 44-3137-D

SCALE AS SHOWN
 SHEET 1 OF 2



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS F-91-125

James M. Hulse 11-12-91
 SIGNATURE DATE
 U.S. SOIL CONSERVATION SERVICE

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

John R. Richardson 11/8/91
 SIGNATURE DATE
 HOWARD S.C.D.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 210 OF THE STANDARD SPECIFICATION & FINAL RD CONSTRUCTION PLANS F-91-125

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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James M. Hulse 11/13/91
 DIRECTOR OF PUBLIC WORKS DATE

John R. Richardson 11/15/91
 CHIEF BUREAU OF ENGINEERING DATE

John R. Richardson 11/15/91
 CHIEF BUREAU OF UTILITIES DATE

John R. Richardson 11/15/91
 CHIEF LAND DEVELOPMENT DIVISION DATE

LAND DESIGN ENGINEERING, INC.
 10620 GUILFORD ROAD
 SUITE 210
 JESSUP, MARYLAND 20794
 (301) 604-6264
 (301) 880-0034

DES: L.M.	W.J. /	Connect to revised 14-3002	11-6-92
DRN: K.W./L.M.			
CHK: R.L.M.			
DATE: 7/91			
BY: NO.		REVISION	DATE

PLAN AND PROFILE

600 SCALE MAP NO. 37 BLOCK NO. 3

MONTGOMERY ROAD IMPROVEMENTS
 1ST ELECTION DISTRICT
 CONTRACT NO. 44-3137-D

SCALE AS SHOWN
 SHEET 2 OF 2