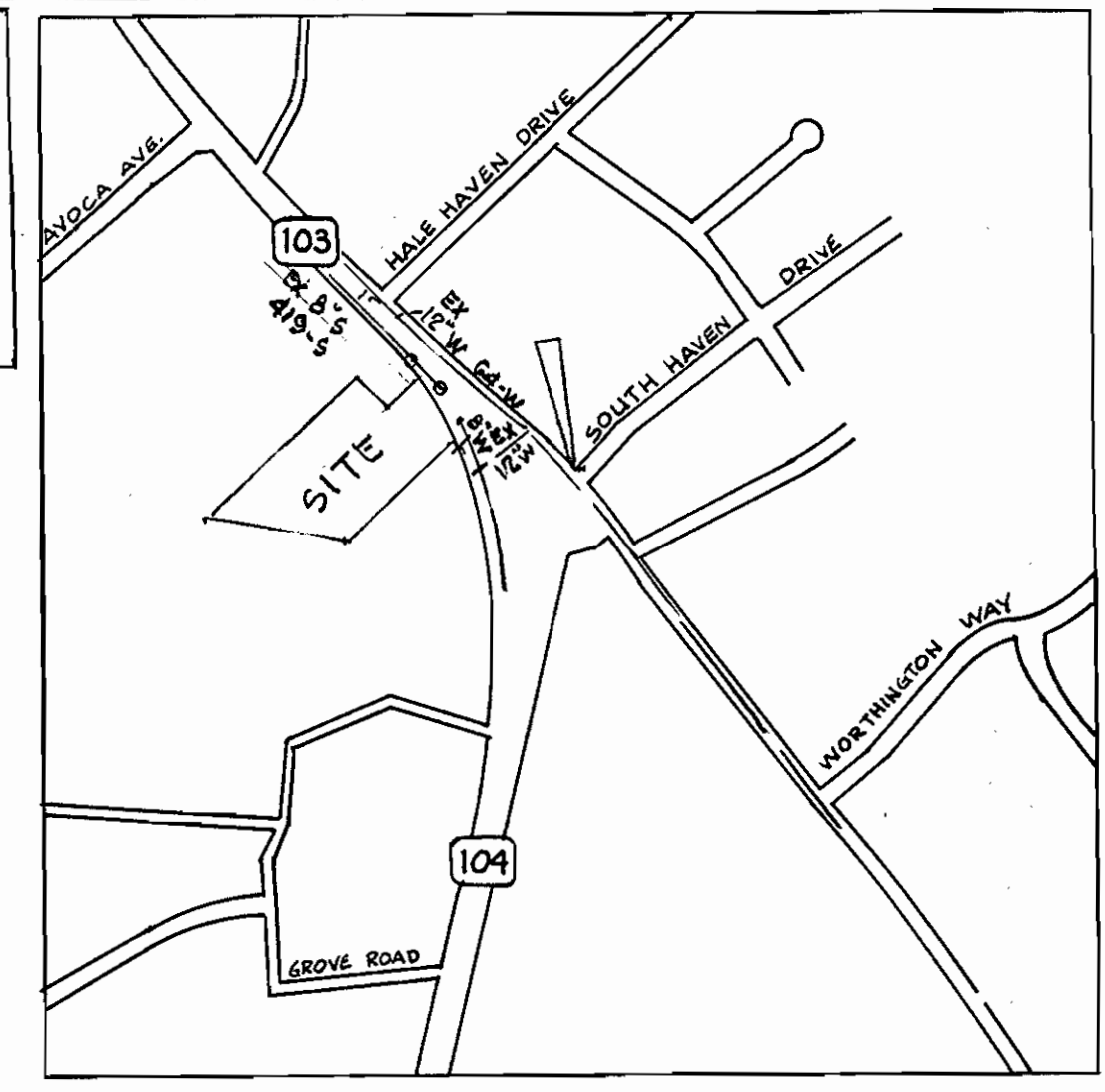
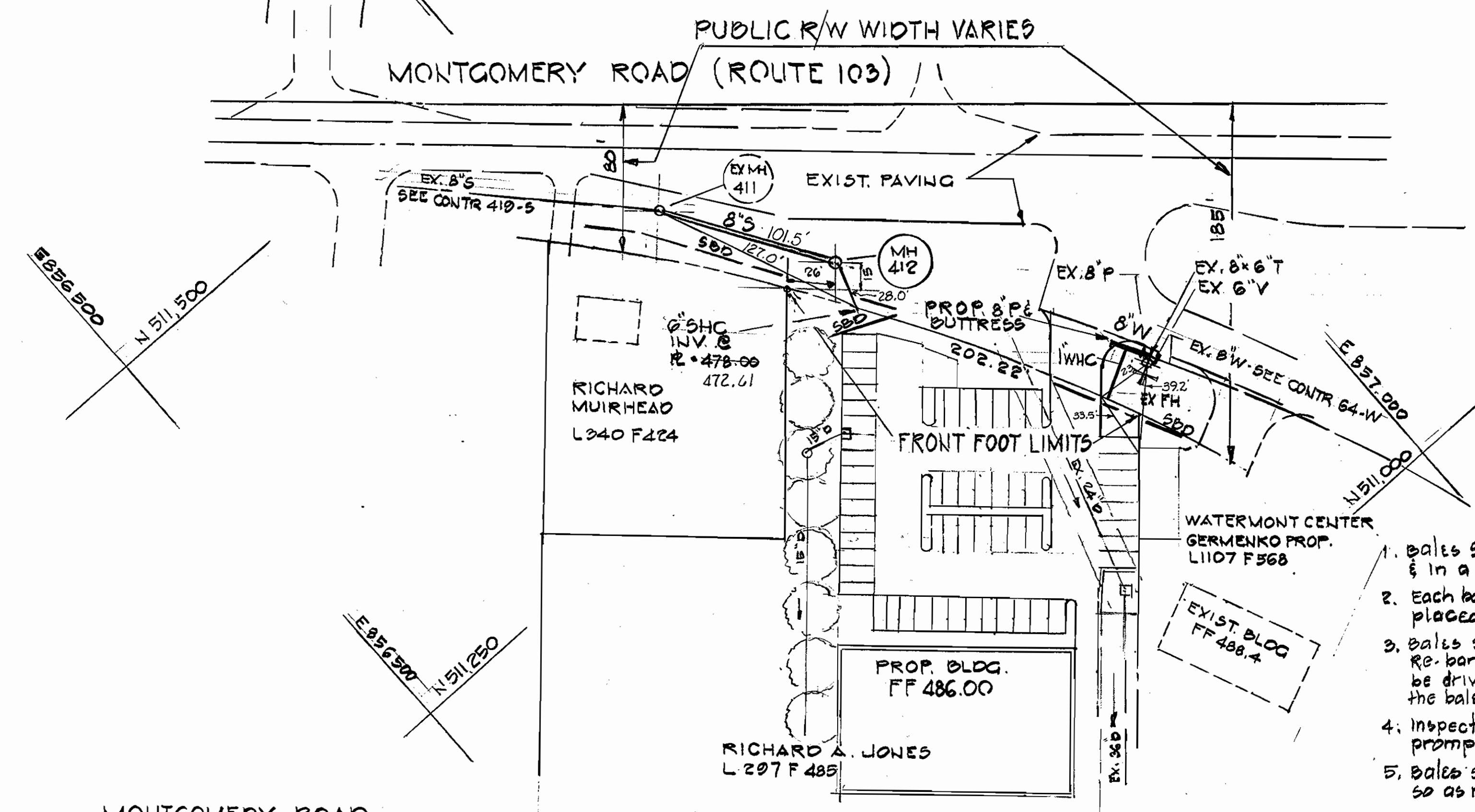


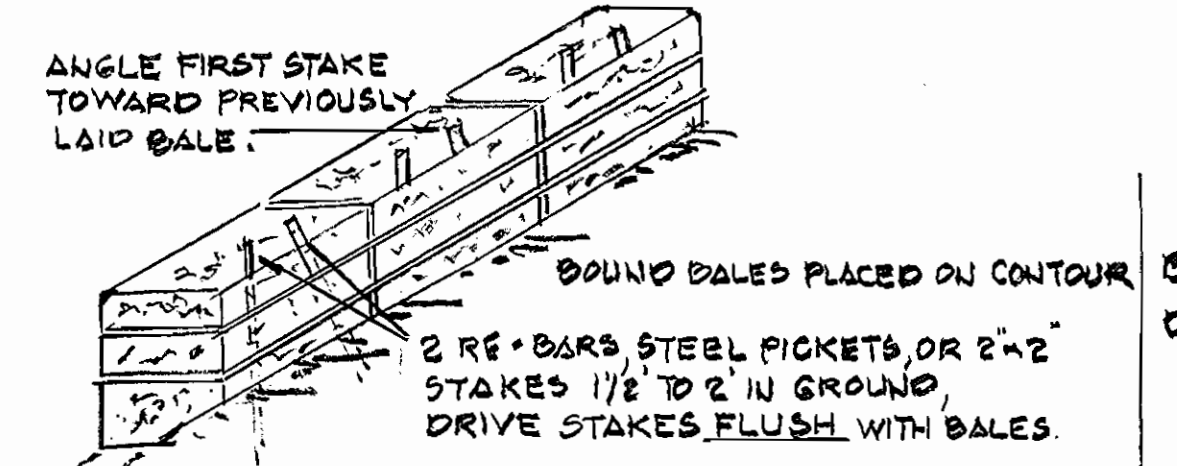
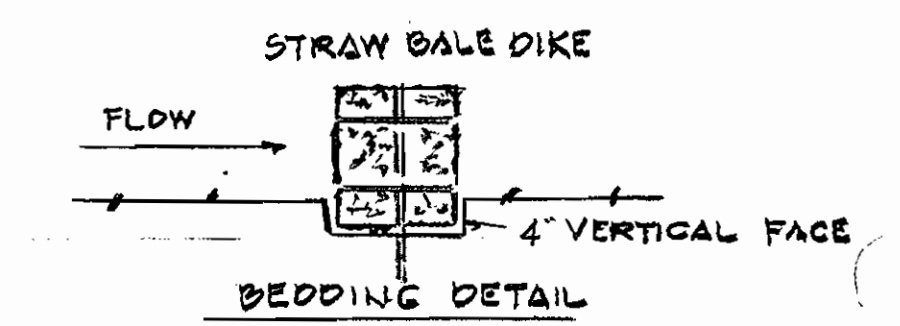
WASTEWATER DISPOSAL: PATAPSCO VIA
 DRAINAGE AREA 103 PUMPING
 TYPE OF BUILDING: COMMERCIAL
 NO. OF SHC 1
 NO. OF WHC 1
 NO. OF LOTS 1
 COUNTY USE:
 WATER AND SEWER CODE
 WATER 601
 SEWER 5750G51



VICINITY MAP, 1 in. = 600 ft.



PLAN
 SCALE: 1" = 50'



ANCHORING DETAIL
 CONSTRUCTION SPEC.

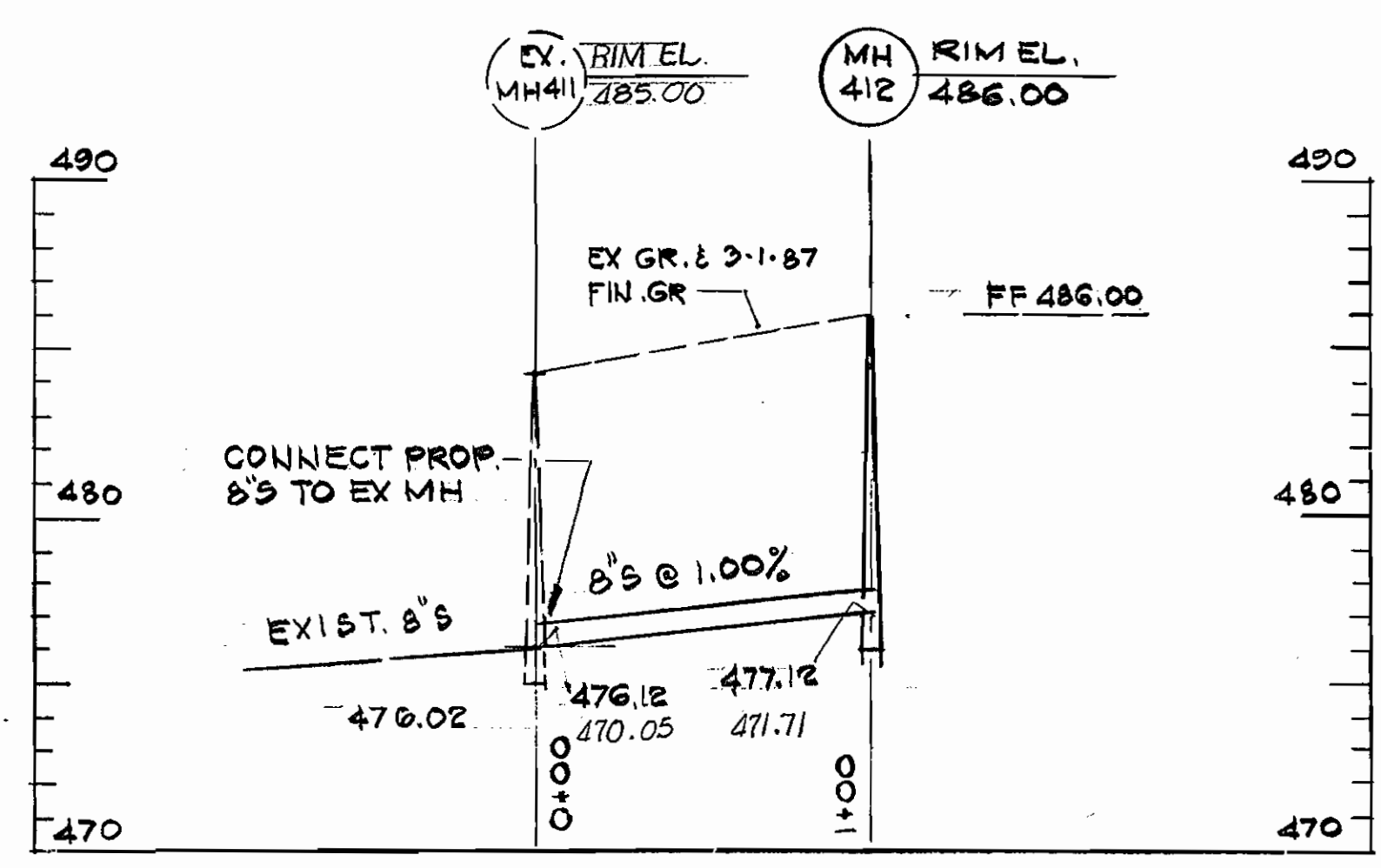
- Bales shall be placed at the toe of a slope or on the contour & in a row with ends tightly abutting the adjacent bales.
- Each bale shall be embedded in the soil a min. of (4) inches, and placed so the bindings are horizontal.
- Bales shall be securely anchored in place by either two stakes or re-bar driven through the bales. The first stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
- Inspection shall be frequent & repair replacement shall be made promptly as needed.
- Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

STRAW BALE DIKE SYMBOL: SBD
 NO SCALE

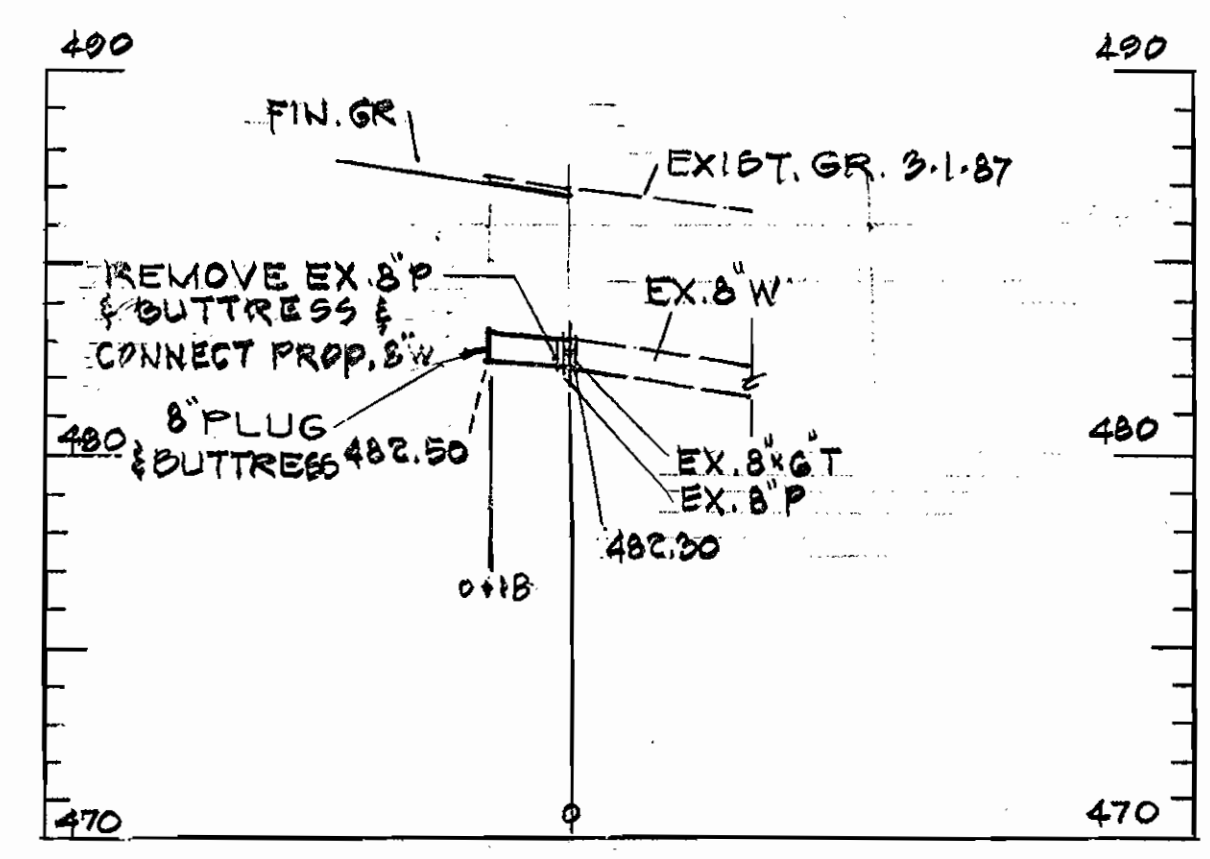
BENCH MARK: T-7
 ELEV. 498.983
 DESCRIPTION: + CUT IN FIRE HYDRANT BONNETT BOLT AT CORNER OF SOUTH HAVEN DRIVE.

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 Engineer at the Contractor's expense.
- All horizontal controls are based on Maryland State Coordinates.
- All vertical controls are based on U.S.C.S. data.
- All pipe elevations shown are invert elevations.
- Clear all utilities by a minimum of 6".
- 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. The contractor shall have a copy of Volume IV on the job.
- 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 verified by the Contractor to his own satisfaction. Any damage to existing facilities due to the Contractor's negligence shall be repaired at the Contractor's expense.
- Contractor shall notify the following utilities or agencies at least five working days before starting work shown on these plans:
 - State Highway Administration - 531-5533
 - Baltimore Gas & Electric Co. - Contractor Services 561-2585
 - Baltimore Gas & Electric Co. Under Ground Damage Control - 234-5621
 - Baltimore Gas & Electric Co. Trouble Shooting - 298-9013
 - Miss Utility - 1-559-0100
 - Colony Pipeline Co. - 795-1390
 - Bureau of Utilities, Howard County Department of Public Works - 992-2366
- Trees and shrubs are to be protected from damage to 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.
- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Tops 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.
- All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- The contractor shall not operate any water main valves on the existing water system.
- All water house connections shall be for inside meter setting, unless otherwise noted on the plans or in the Specifications.
- All sewer mains shall be C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. Class 2400 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.



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



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

ITEM	QTY	AS-BUILT	MATERIAL/SUPPLIER
8" WATER LF	18	18 LF	BELAIR RD. SUPPLIES
8" SEWER LF	100	99 LF	BELAIR RD. SUPPLIES
1" WHC LF	30	30 LF	BELAIR RD. SUPPLIES
6" SHC LF	28	27 LF	BELAIR RD. SUPPLIES
MANHOLE EQ.	1	1	ATLANTIC CONCRETE PRODUCTS

Construction Sequence
 Sediment Control Procedures

- Obtain sediment control permit (Article 15.05-3).
- Construct continuous sediment barrier for all disturbed areas. Use straw bales. Note this area requires no clearing or grubbing.
- After straw bales are in place, excavate for proposed water and sewer extensions.
- All excavated material shall be stockpiled on high side of trench.
- Construct pipe lines.
- Restore erosion control measures disturbed by water and sewer construction.
- Stabilize disturbed areas as construction progresses with temporary seeding and mulching (or permanent restoration).
- Complete permanent restoration.
- All sediment control devices shall remain in place until removal is approved by the S.C.S. inspector.
- Permanent restoration in construction area of water and sewer mains shall follow within one week of pipe laying and backfilling.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

Signature: *J. Helms* DATE: 5/4/87
 U.S. SOIL CONSERVATION SERVICE

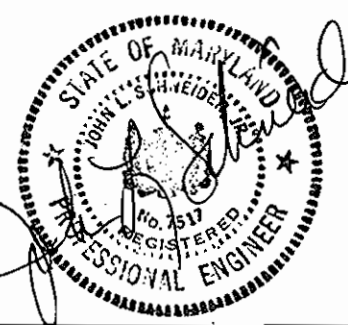
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.

APPROVED: Signature: *Stephen D. Huber* DATE: 4/21/87
 HOWARD SCD

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 210 OF THE HOWARD COUNTY DESIGN MANUAL, STANDARD AND SPECIFICATIONS FOR SOIL EROSION & SEDIMENT CONTROL IN DEVELOPING AREAS AND S.D.P. 87-159

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director: *John F. Neuma* DATE: 5-4-87
 Chief Bureau of Engineering: *Robert M. ...* DATE: 5-1-87
 Chief Bureau of Utilities: *...* DATE: 5-4-87
 Chief Land Development Division: *...* DATE: 5-4-87

HUDKINS ASSOCIATES, INC.
 ENGINEERS AND SURVEYORS
 SUITE 231, JOSEPH SQUARE
 5485 HARPERS FARM ROAD
 COLUMBIA, MARYLAND 21046



DES:	
DRN:	
CHK:	
DATE:	

JONES PROPERTY ROUTE 103
 PLANS AND PROFILES
 600' SCALE MAP NO. 31 BLOCK NO. 7-B

WATER AND SEWER EXTENSION
 ROUTE 103 & 104
 CONTRACT NO. 24-1017-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET OF