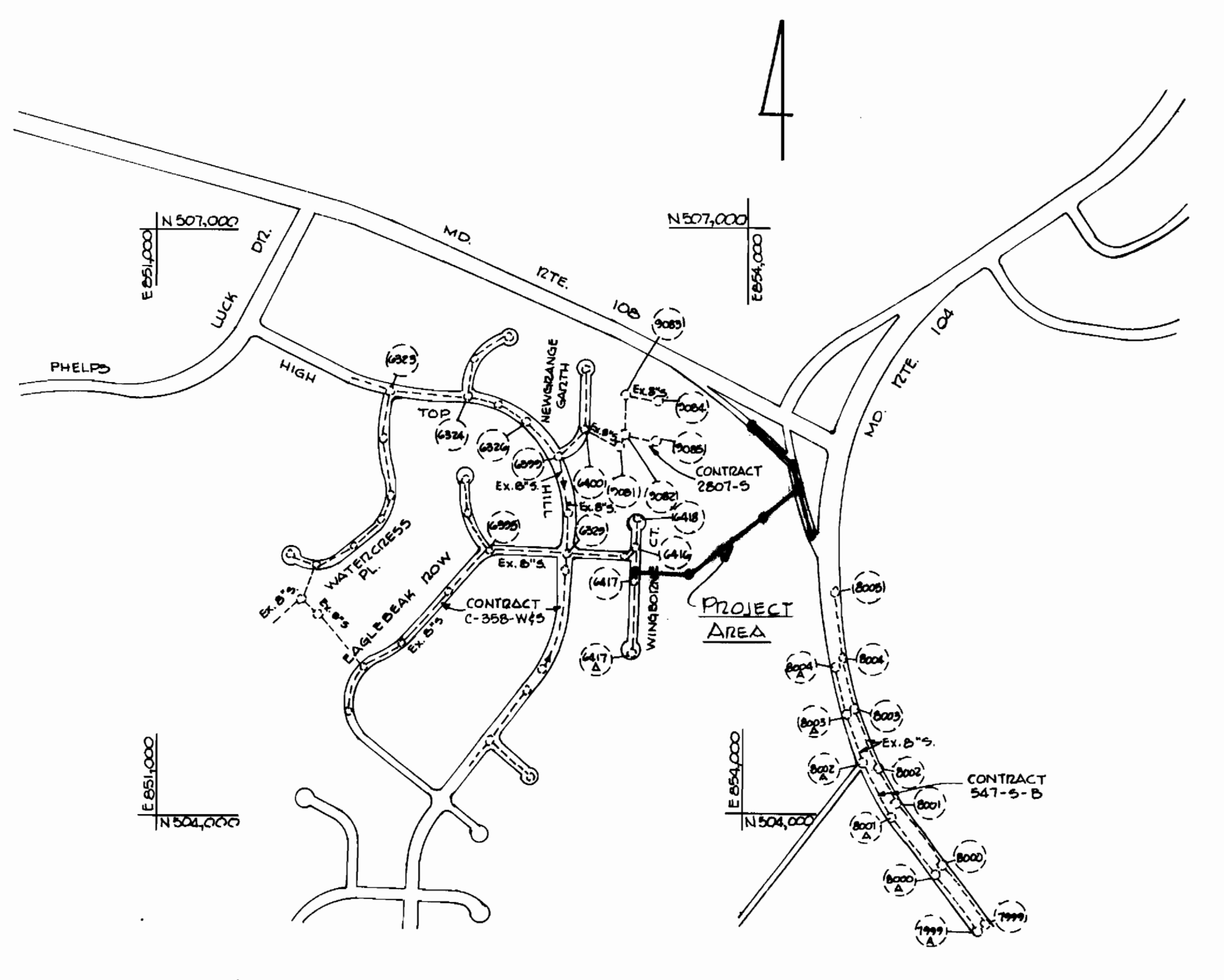
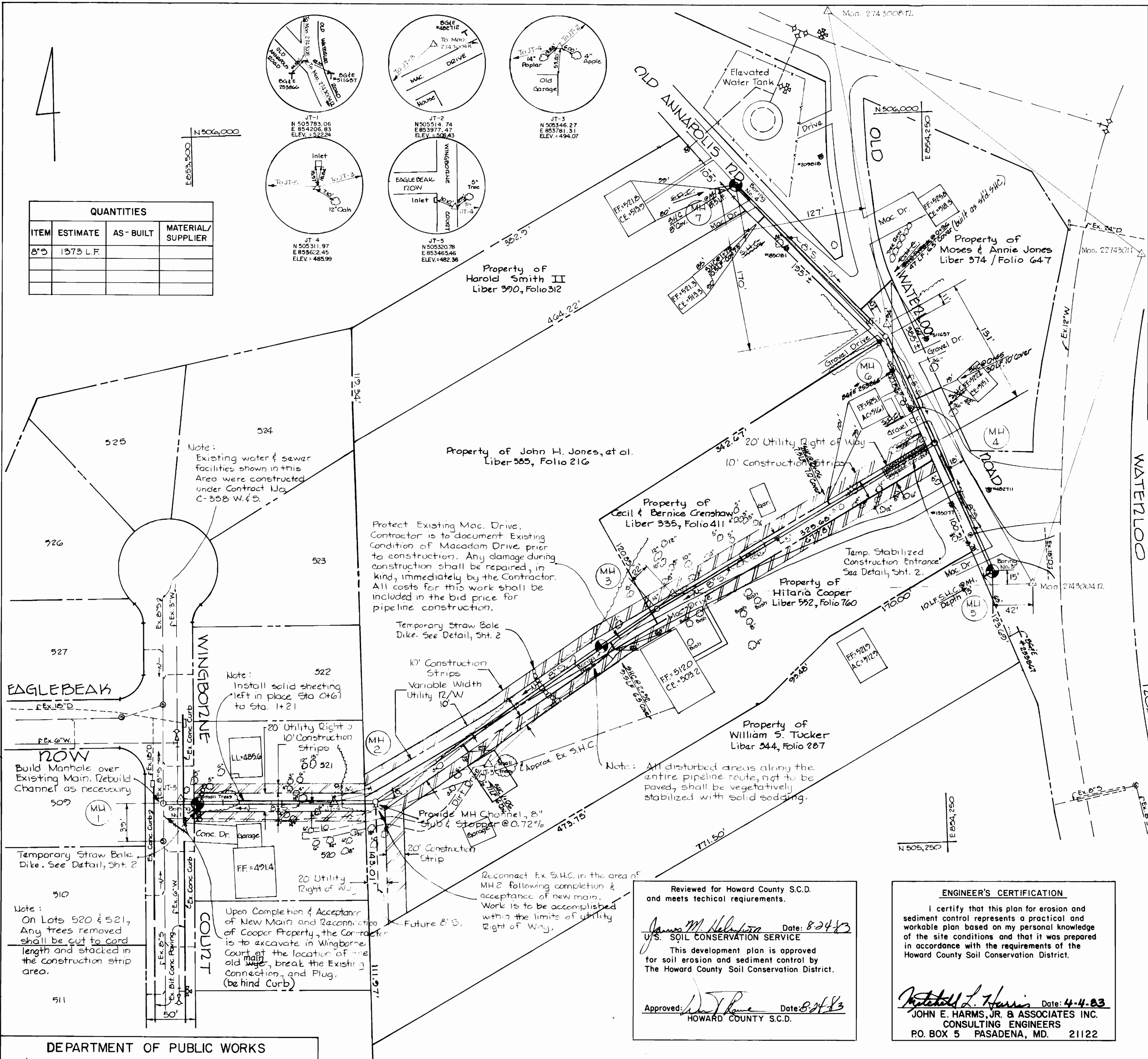
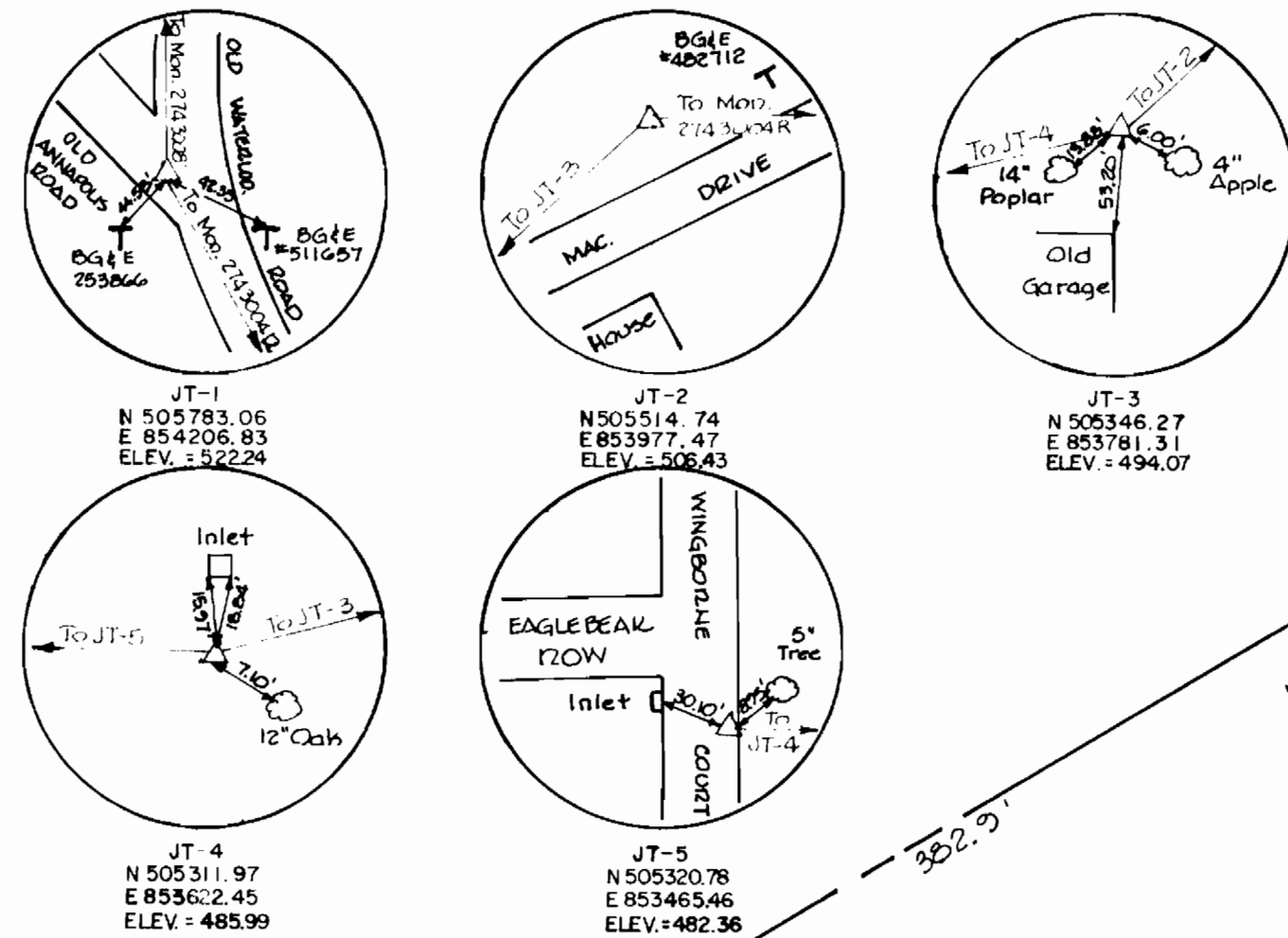




QUANTITIES			
ITEM	ESTIMATE	AS-BUILT	MATERIAL/SUPPLIER
8" S	1373 L.F.		



SEWER CODE - For County use only.  
 SEWER No. 5338900  
 No. SHC 7  
 Drainage Area Little Patuxent

**LOCATION MAP**  
 Scale: 1" = 600'

**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 pipe elevations shown are invert elevations.
- Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of utilities at his expense.
- For details not shown on the drawings, use Howard County Standard Details.
- For materials and construction requirements, use Howard County Standard Specifications.
- All horizontal controls are based on Maryland State Coordinates.
- All vertical controls are based on USGS Datum.
- Clear all utilities by a minimum of 6" Clear all poles by 2'-0" minimum or tunnels as required. The cost for tunneling or bracing poles shall be included in appropriate unit price bids.
- 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 Co.:  
 Underground Electric & Gas Distribution Customer Service - 685-0123.  
 Damage Control - 234-5621.  
 "Mies Utility" - 1-559-0100.  
 Chesapeake & Potomac Telephone Company - 725-9976.  
 American Telephone & Telegraph - Cable Location Division - 393-3553.  
 Bureau of Utilities Howard County - 992-2366.
- 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. Payment for such removal shall be included in appropriate unit prices bid.
- 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 Sewer Mains shall be C.S.P.X., V.C.P.X., A.C.P., 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.
- Sediment Control will be in accordance with this plan and Article 15 of Howard County Design Manual, Volume IV.
- ⊙ Denotes Soil Boring Locations.

Note:  
 Existing water & sewer facilities shown in this Area were constructed under Contract No. C-358 W. & S.

Protect Existing Mac. Drive. Contractor is to document Existing Condition of Macadam Drive prior to construction. Any damage during construction shall be repaired, in kind, immediately by the Contractor. All costs for this work shall be included in the bid price for pipeline construction.

Note:  
 Install solid sheeting left in place Sta 0+61 to Sta. 1+21

Temporary Straw Bale Dike. See Detail, Sht. 2

Note: All disturbed areas along the entire pipeline route, not to be paved, shall be vegetatively stabilized with solid sodding.

Build Manhole over Existing Main. Rebuild Channel as necessary

Temporary Straw Bale Dike. See Detail, Sht. 2

Note:  
 On Lots 520 & 521, Any trees removed shall be cut to cord length and stacked in the construction strip area.

Upon Completion & Acceptance of New Main and Reconnection of Cooper Property, the Contractor is to excavate in Wingborne Court at the location of the old main, break the Existing Connection, and Plug (behind Corb)

Reconnect Ex. S.H.C. in the area of MH2 following completion & acceptance of new main. Work is to be accomplished within the limits of utility Right of Way.

Reviewed for Howard County S.C.D. and meets technical requirements.  
*James M. [Signature]* Date: 8-24-83  
 U.S. SOIL CONSERVATION SERVICE  
 This development plan is approved for soil erosion and sediment control by The Howard County Soil Conservation District.  
 Approved: *[Signature]* Date: 8-24-83  
 HOWARD COUNTY S.C.D.

**ENGINEER'S CERTIFICATION**  
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.  
*Mitchell L. Harris* Date: 4-4-83  
 JOHN E. HARMS, JR. & ASSOCIATES INC.  
 CONSULTING ENGINEERS  
 P.O. BOX 5 PASADENA, MD. 21122

**DEVELOPER'S CERTIFICATION**  
 "I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project.  
*[Signature]*  
 BUREAU OF ENGINEERING  
 DEPARTMENT OF PUBLIC WORKS



CONTRACT NO. 20-1091  
 JONESTOWN COLLECTORS  
 HOWARD COUNTY CAPITAL PROJECT S-6080

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY  
*John J. [Signature]* 9-28-83  
 DIRECTOR OF PUBLIC WORKS - DATE  
*William E. [Signature]* 9/26/83  
 CHIEF - BUREAU OF ENGINEERING - DATE  
*Allen S. [Signature]* 9/26/83  
 CHIEF - UTILITY DIVISION - DATE

JOHN E. HARMS, JR. & ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 P.O. BOX 5  
 PASADENA, MARYLAND

CONTRACT NO. 20-1091  
 CAPITAL PROJECT NO. S-6080

PLAN  
 JONESTOWN COLLECTORS

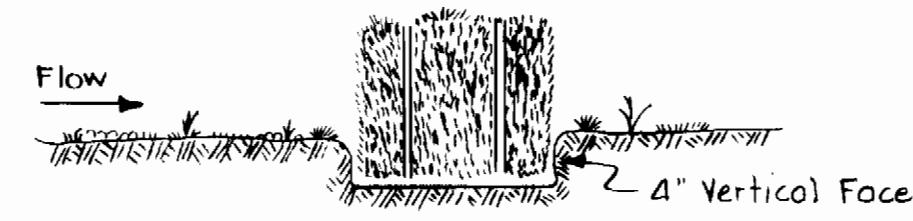
JONESTOWN COLLECTORS  
 ELECTION DISTRICT NO. 6  
 HOWARD COUNTY, MARYLAND

DRAWING NO. <u>1</u> OF <u>2</u>	SCALE 1" = 50'	Designed: CAL Drafted: REC Checked: CAL W.O. No.: 293-C
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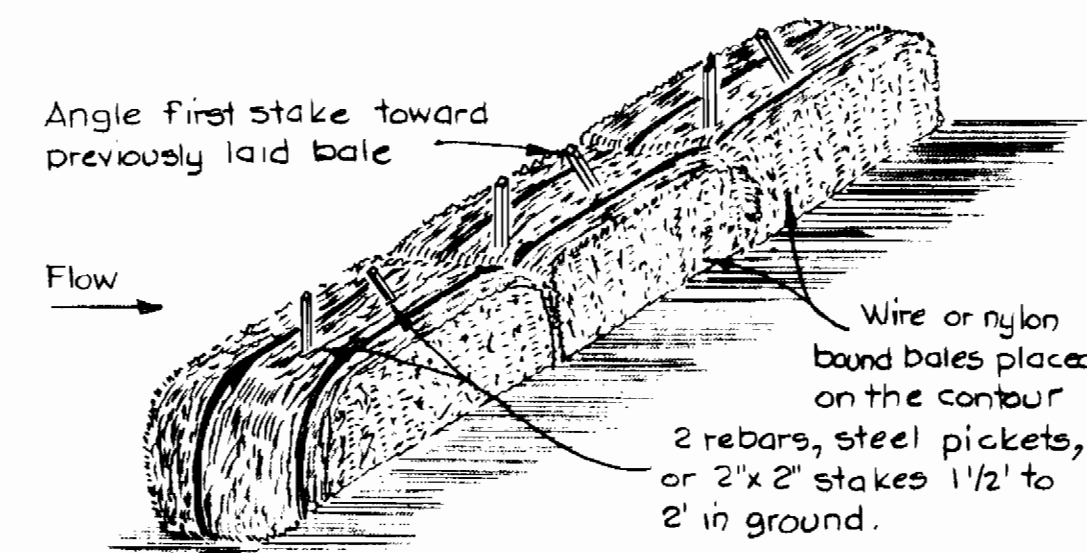
DATE: AS BUILT DEC, 84

**SCHEDULE OF PHASING AND CONSTRUCTION**

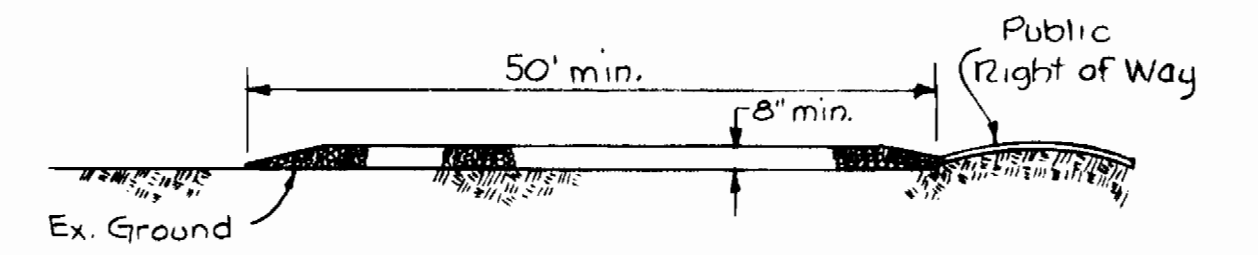
- PHASE I - Clear Areas for construction. Install Sediment Control Measures down grade of construction.
- PHASE II - Begin Pipeline Construction. Maintain Sediment Control Measures on a daily basis.
- PHASE III - Complete Underground Construction. Clean up entire project area. Solid Sod all disturbed areas not paved or otherwise surfaced.
- PHASE IV - Remove Sediment Control Measures. Maintain new vegetative areas to achieve a thick stand of grass.



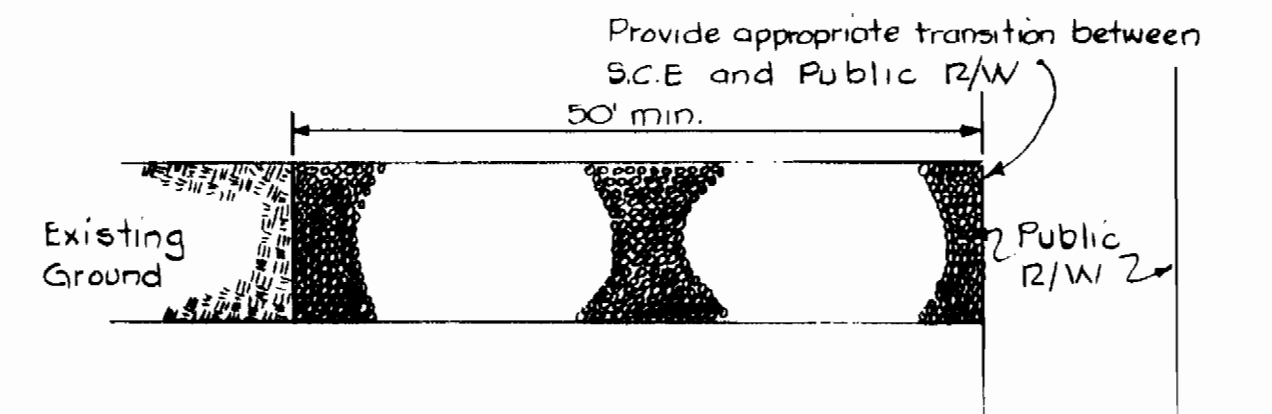
EMBEDDING DETAIL



ANCHORING DETAIL



PROFILE



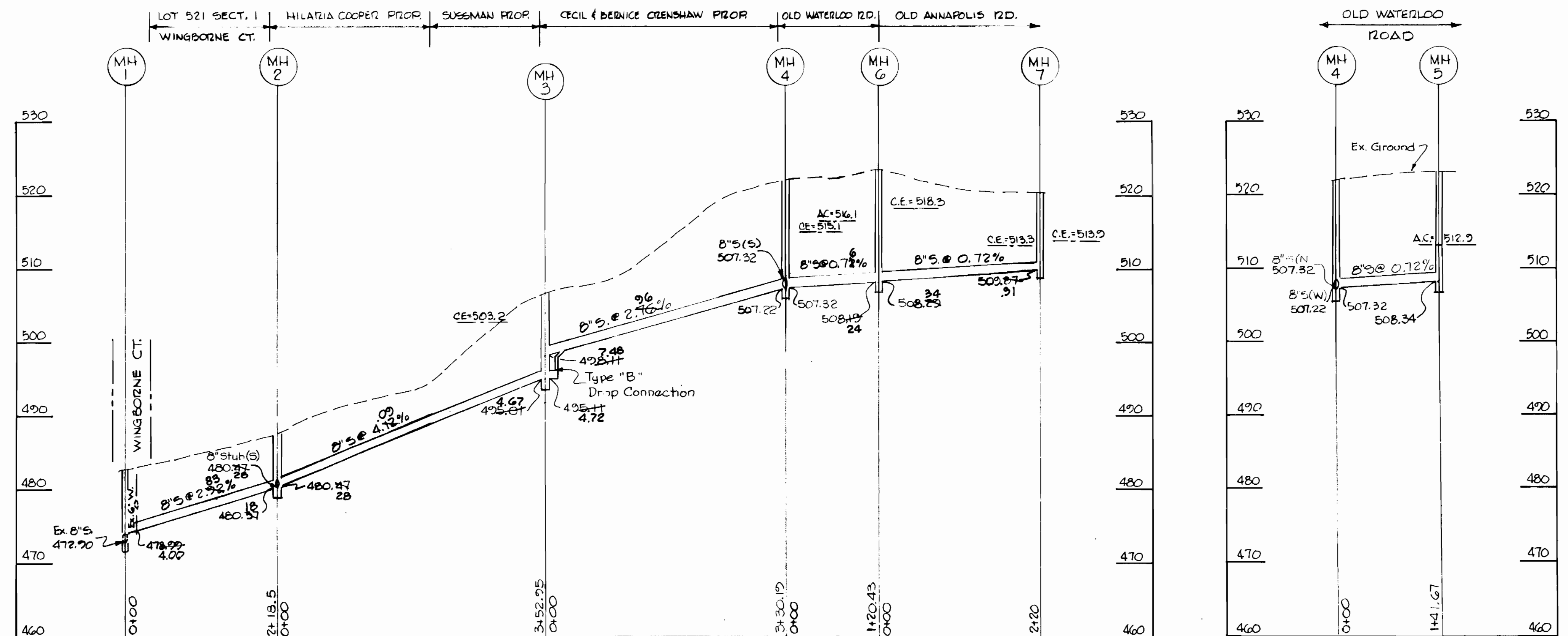
PLAN

1. Bales shall be placed in a row w/ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a minimum of 4".
3. Bales shall be securely anchored in place by stakes or rebar driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
4. Inspection shall be frequent if repair or replacement shall be made promptly.
5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

1. Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1/2"). Use crushed stone.
2. Length - As affactive, but not less than 30 feet.
3. Thickness - Not less than eight (8) inches.
4. Width - Not less than full width of all points of ingress or egress.
5. Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public R/W. When washing is ready, it shall be done on an area stabilized w/crushed stone which drains into an approved trap or basin. All sediment shall be prevented from entering storm drains, etc. through use of sand bags, gravel, boards, or other approved methods.
6. Maintenance - The entrance shall be maintained in a condition which will prevent movement of sediment onto Public R/W. All sediment must be removed immediately.

**STRAW BALE DIKE**

**STABILIZED CONSTRUCTION ENTRANCE**



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY

*John F. Nemy* 9-28-83  
DIRECTOR OF PUBLIC WORKS - DATE

*Allen L. Brown* 9-27-83  
CHIEF - BUREAU OF UTILITIES - DATE



JOHN E. HARMS, JR. & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
P.O. BOX 5  
PASADENA, MARYLAND

CONTRACT NO. 20-1091  
CAPITAL PROJECT NO. S-6080

PROFILES/DETAILS  
JONESTOWN COLLECTORS

JONESTOWN COLLECTORS  
ELECTION DISTRICT NO. 6  
HOWARD COUNTY, MARYLAND

CONTRACT NO. 20-1091  
JONESTOWN COLLECTORS  
HOWARD COUNTY CAPITAL PROJECT S-6080

DRAWING NO. 2 OF 2

SCALE: H: 1" = 100', V: 1" = 10'

Designed: CAL  
Drafted: REC  
Checked: CAL  
W.O. No.: 293-C

DATE: 48 BUILT 12/84