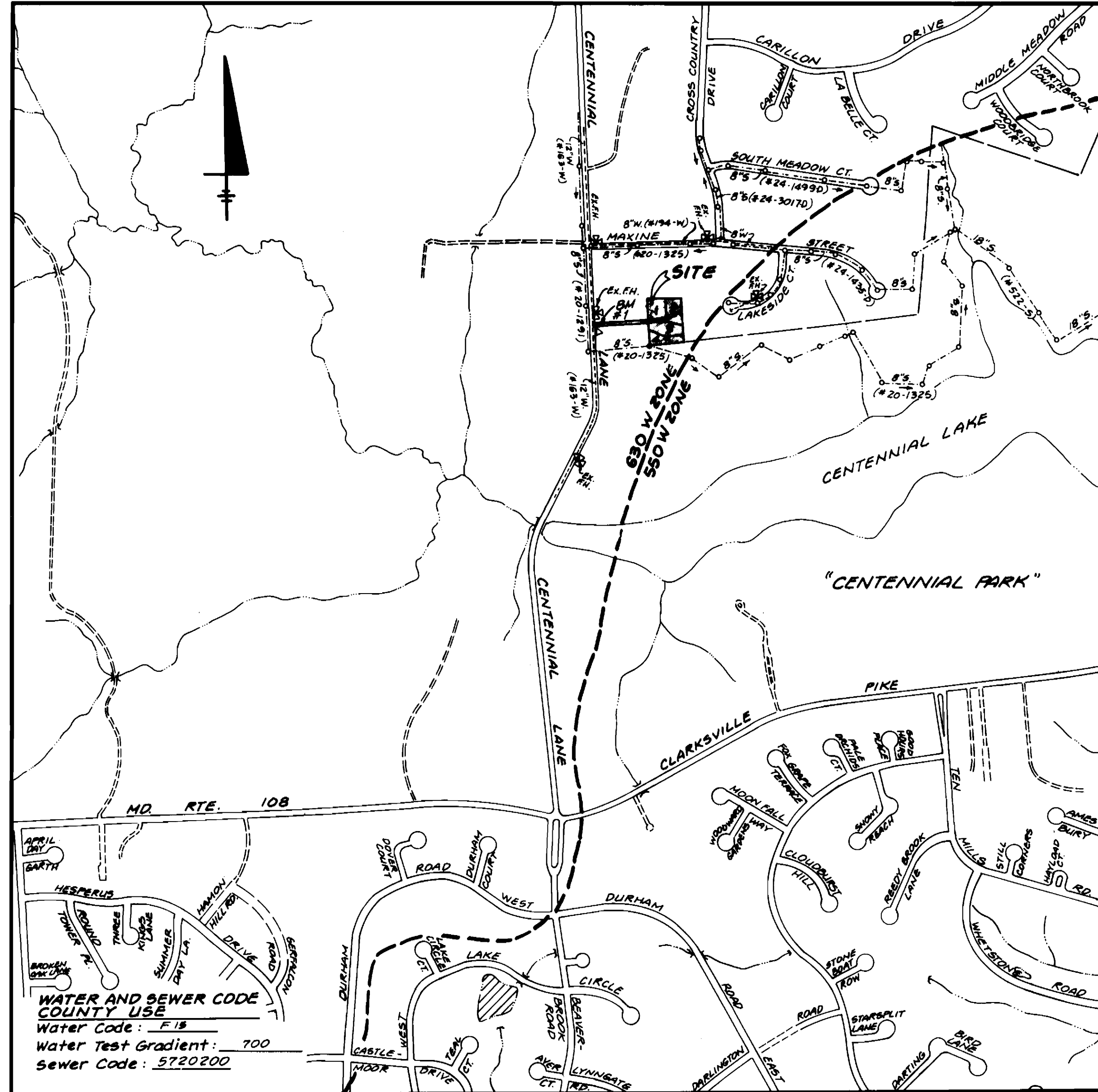


GENERAL NOTES

BENCH MARKS:

B.M.#1 HOWARD COUNTY MONUMENT # 294001 ELEV. 418.06



WATER AND SEWER CODE COUNTY USE
 Water Code: F18
 Water Test Gradient: 700
 Sewer Code: 5720200

VICINITY MAP
 SCALE: 1" = 600'

Type of Building: Single Family Detached
 Number of Lots/Parcels: 4 (3 Buildable, 1 Open Space)
 Number of W.H.C.'s: 3
 Number of S.H.C.'s: 3
 Drainage Area: Little Patuxent
 Treatment Plant: Patapsco, Baltimore (via Route 108 Pumping Station)

PART I:

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 Engineer at the Contractor's expense.
2. All horizontal controls are based on Maryland State Coordinates. (NAD 27)
3. All vertical controls are based on U.S.G.S. data. (NAD 27)
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. The owner has contacted the Utility Companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the Utility Companies to schedule the bracing of the poles.
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 (Latest Edition). The contractor shall have a copy of Volume IV on the job.
7. Where test pits have been made on existing utilities, they are noted by the symbol \odot 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 located by the contractor two weeks in advance of construction operations at his own expense.
8. Contractor shall notify the following Utility Companies or agencies at least five working days before starting work shown on these plans:

State Highway Administration	531-5533
Baltimore Gas & Electric Company Contractor Services	856-4620
Baltimore Gas & Electric Company Under Ground Damage Control	787-9068
Miss Utility	1-800-257-7777
Colonial Pipeline Company	795-1390
Howard County Dept. of Public Works Bureau of Utilities	313-4900
9. 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.
10. 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.

PART II - WATER:

1. All water mains to be D.I.P. Class 52 unless otherwise noted.
2. Tops of all water mains to have a minimum of 3 1/2' cover unless otherwise noted.
3. Valves adjacent to tees shall be strapped to tees.
4. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
5. Fire hydrants shall be set to the bury line 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 shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
6. The contractor shall not operate any water main valves on the existing water system.
7. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.

PART III - SEWER:

1. All sewer mains to be D.I.P., R.C.P., V.C.P.X., C.B.P.X., R.C.C.P. and P.C.V. unless otherwise noted.
2. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
3. All manholes shall be 4'-0" inside diameter unless otherwise noted.
4. Force mains shall be D.I.P. only.
5. Manholes designated W.T. in plan and profile shall have watertight frame and covers; Standard Detail 65.52. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
6. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.
7. Manholes shown with 12" and 16" walls are for brick manholes only.

QUANTITIES

ITEM	QUANTITIES ESTIMATED	QUANTITIES	AS BUILT	
			TYPE	MANUFACTURER / SUPPLIER
8" Sewer	194 L.F.	225 L.F.	SDR 35 PVC	JM Manufacturing Co./Belair rd. Supply Co.
4" SHC	88 L.F.	100 L.F.	SDP 35 PVC	JM Manufacturing Co./Belair rd. Supply Co.
4' Manhole	1	1		Atlantic
3/4" WHC	5 L.F.	10 L.F.	K' Copper Tubing	Howell Metals/Belair rd. Supply Co.
1" WHC	5 L.F.	10 L.F.	K' Copper Tubing	Howell Metals/Belair rd. Supply Co.

NAME OF CONTRACTOR: _____

CHECK BOX: SURVEY & DRAFTING DIV. AS BUILT DATE _____

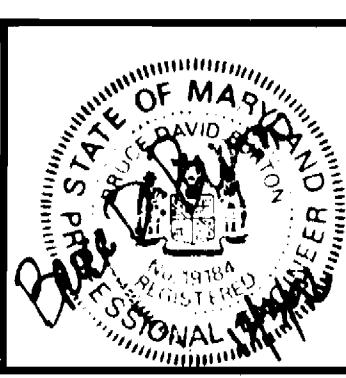
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 Signature: *[Signature]* 12/3/92
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 Signature: *[Signature]* 12/3/92
 HOWARD COUNTY SOIL CONSERVATION DISTRICT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MD
 Director of Public Works: *[Signature]* 12-4-92
 Chief - Bureau of Engineering: *[Signature]* 12-4-92
 Chief - Bureau of Utilities: *[Signature]* 12-3-92
 Chief - Land Development Division: *[Signature]* 12/3/92

LAND DESIGN ENGINEERING, INC.
 10620 Guilford Road
 Suite 210
 Jessup, Maryland
 20794
 (410) 880-0034, (301) 604-6264



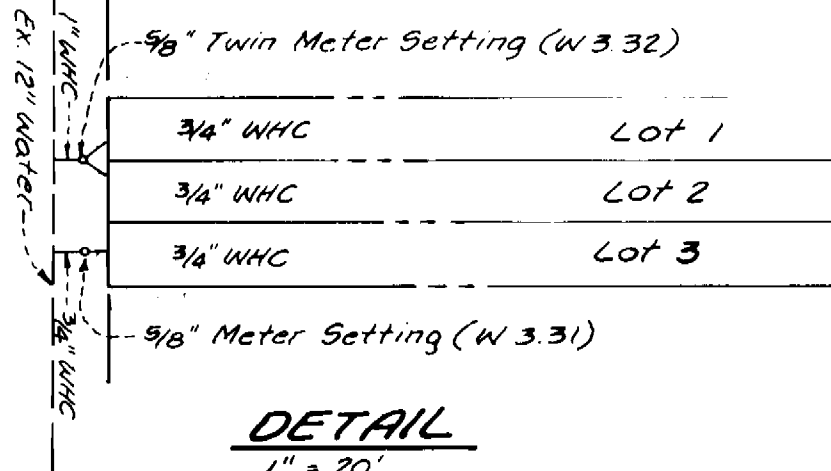
Designed: BOB	LOE	1	Revise Quantities Box		
Drawn: KBW					
Checked: BOB					
Date: Mar. 1992	By	No.	REVISION	Date	

TITLE SHEET
 600 SCALE MAP No. 30 BLOCK No. 1

PROPERTY OF
HARRY L. HOLLIDAY, JR.
 CONTRACT No. 24-3242-0
 LOTS 1 THRU 4
 2nd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 1 OF 3

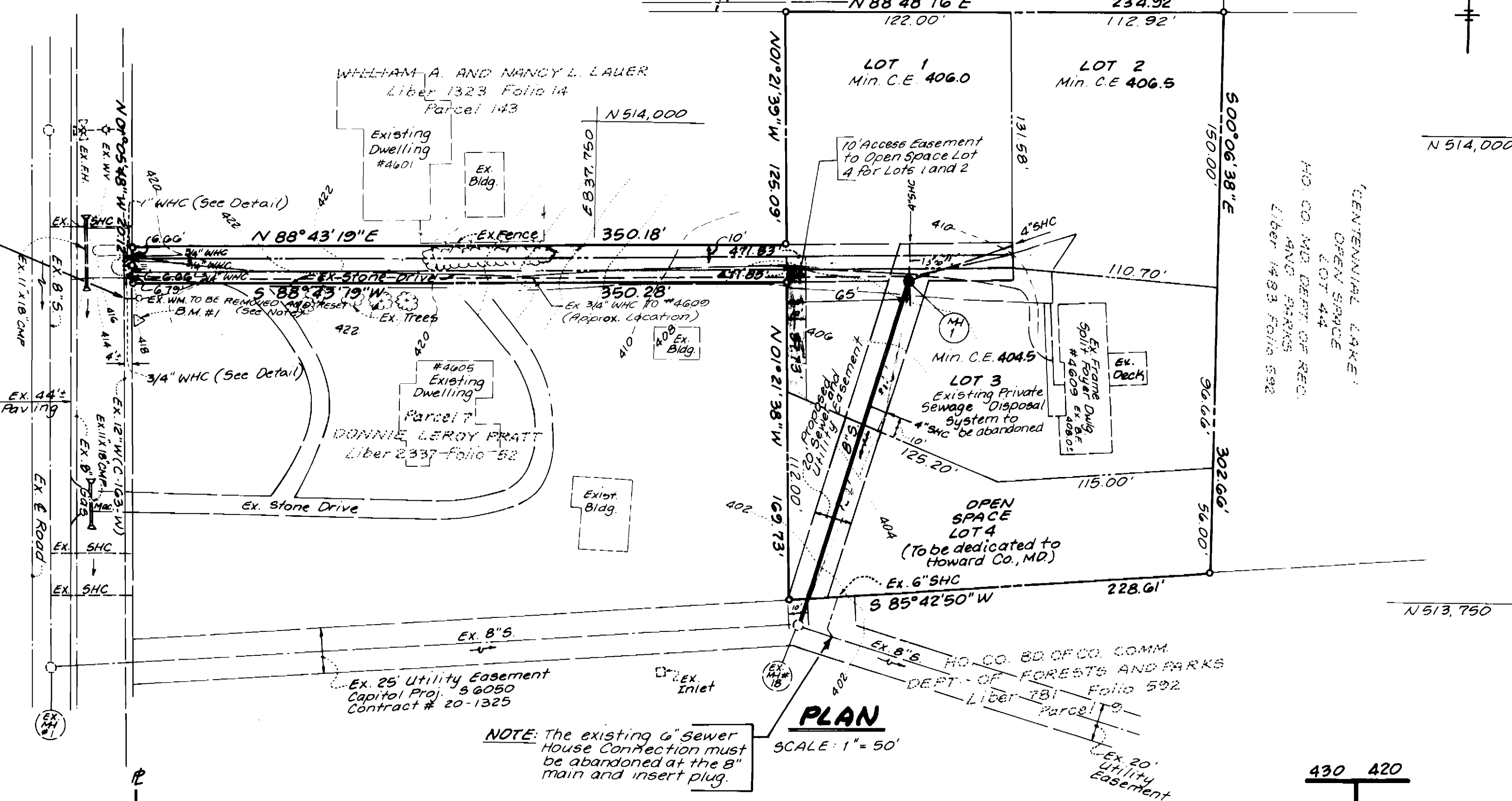
AS-BUILT

SEWER HOUSE CONN. TABLE		
LOT NO.	INV. @ R	MIN. C.E.
1	401.02	406.0
2	402.82	406.5
3	399.75	404.5

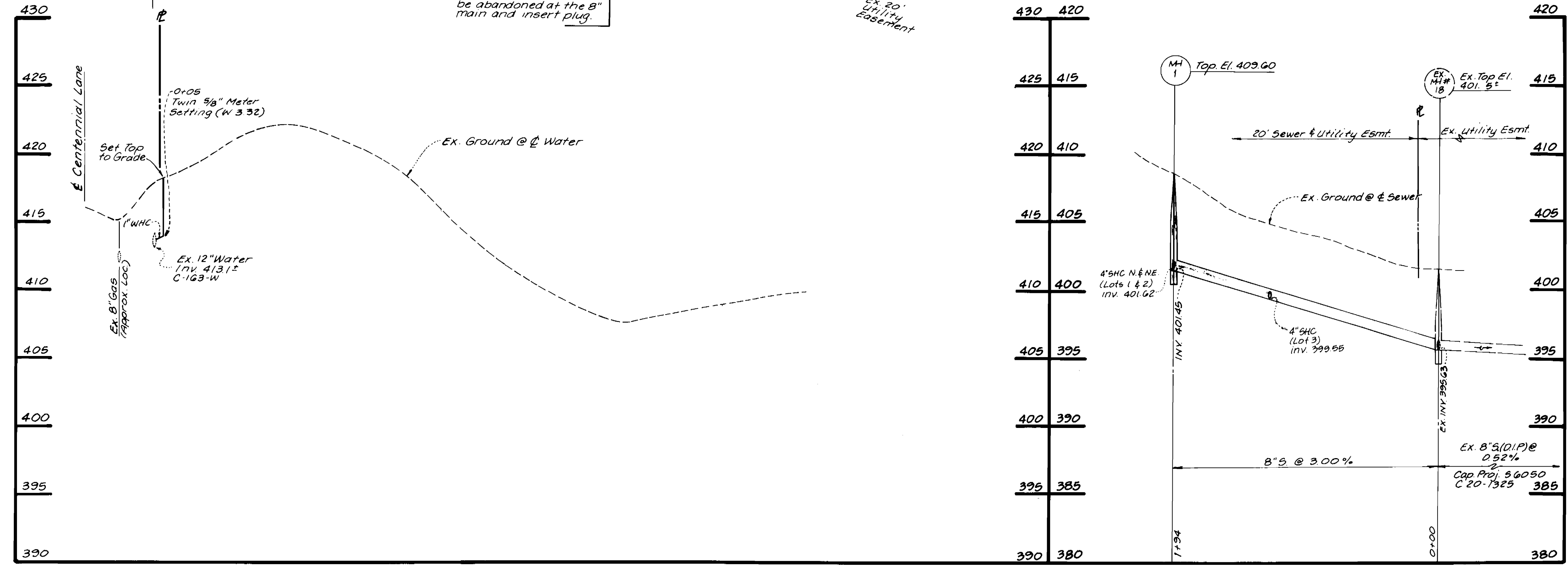


NOTE: The existing 3/4" Water House Connection shall be abandoned at the Corporation Cook assembly. Remove existing meter setting and reset for #4600. Where the existing 3/4" WHC falls within the fee simple pipestream to Lot 3 (#4600) the 3/4" water service will not require relocation. The existing 3/4" WHC will require relocation from the existing meter setting to the point of being located within the fee simple pipestream (30 C.R.F.). The approximate location of the existing 3/4" WHC has been shown for the contractor's convenience. Contractor to restore all disturbed areas to original grade and stabilize with seed & mulch.

CENTENNIAL LANE
(EX. UNLAWFUL WIDTH PUBLIC R/W)



NOTE: The existing 6" Sewer House Connection must be abandoned at the B' main and insert plug.



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 Signature: M. H. [unclear] DATE: 12/3/92
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 Signature: John R. [unclear] DATE: 12/3/92
 HOWARD COUNTY SOIL CONSERVATION DISTRICT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MD
 Director of Public Works: [Signature] DATE: 12-4-92
 Chief - Bureau of Engineering: [Signature] DATE: 12-4-92
 Chief - Bureau of Utilities: [Signature] DATE: 12-3-92
 Chief - Land Development Division: [Signature] DATE: 12-3-92

LAND DESIGN ENGINEERING, INC.
 10620 Guilford Road
 Suite 210
 Jessup, Maryland
 20794
 (410) 880-0034, (301) 604-6264



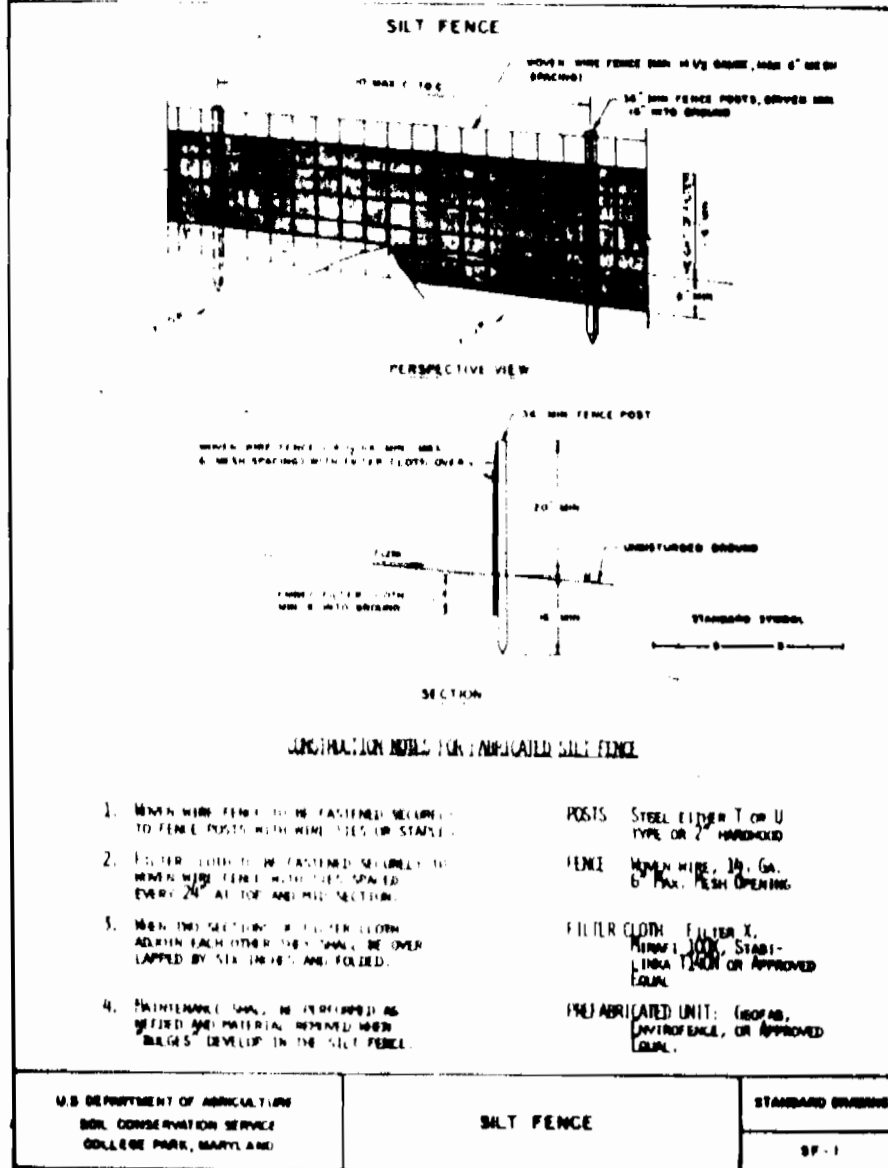
Designed	Drawn	Checked	Date	By	No	REVISION	Date
BDB	RDW	BDB	Mar. 1992				

PLAN & PROFILE
 WATER AND SEWER MAIN
 900 SCALE MAP No. 30 BLOCK No. 1

PROPERTY OF
HARRY L. HOLLIDAY, JR.
 CONTRACT No. 24-3242-D
 LOTS 1 THRU 4
 2nd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 2 OF 3

LOT NO.	INV. @ E.	MIN. C.E.
1	401.02	400.0
2	402.02	400.5
3	399.75	404.5



CONSTRUCTION SEQUENCE:

1. Obtain a grading permit.
2. Clear and grub for Sediment Control measures only.
3. Install silt fence and clear limits of construction.
4. Construct proposed sewer main, manholes and water main.
5. Upon backfilling trenches, fine grade and stabilize with seed and mulch.
6. All Sediment Control measures to remain in place until removal is approved by the Sediment Control Inspector.

NOTE: The existing 3/4" water house of the Corporation C&S assembly setting and reset for #4005 (4005) the 3/4" water house will require relocation. The approximate location of the existing 3/4" water house has been shown for reference to restore all disturbed areas to original grade and stabilize with seed & mulch.

DEVELOPER'S CERTIFICATE

"I 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 the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature: *Michael P. Lane* Date: 12/3/92

ENGINEER'S CERTIFICATE

"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 Soil Conservation District."

Signature: *Paul J. [unclear]* Date: 12/3/92

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS.
Signature: *[unclear]* Date: 12/3/92
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
Signature: *[unclear]* Date: 12/3/92
HOWARD SOIL CONSERVATION DISTRICT

SEDI-MENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS

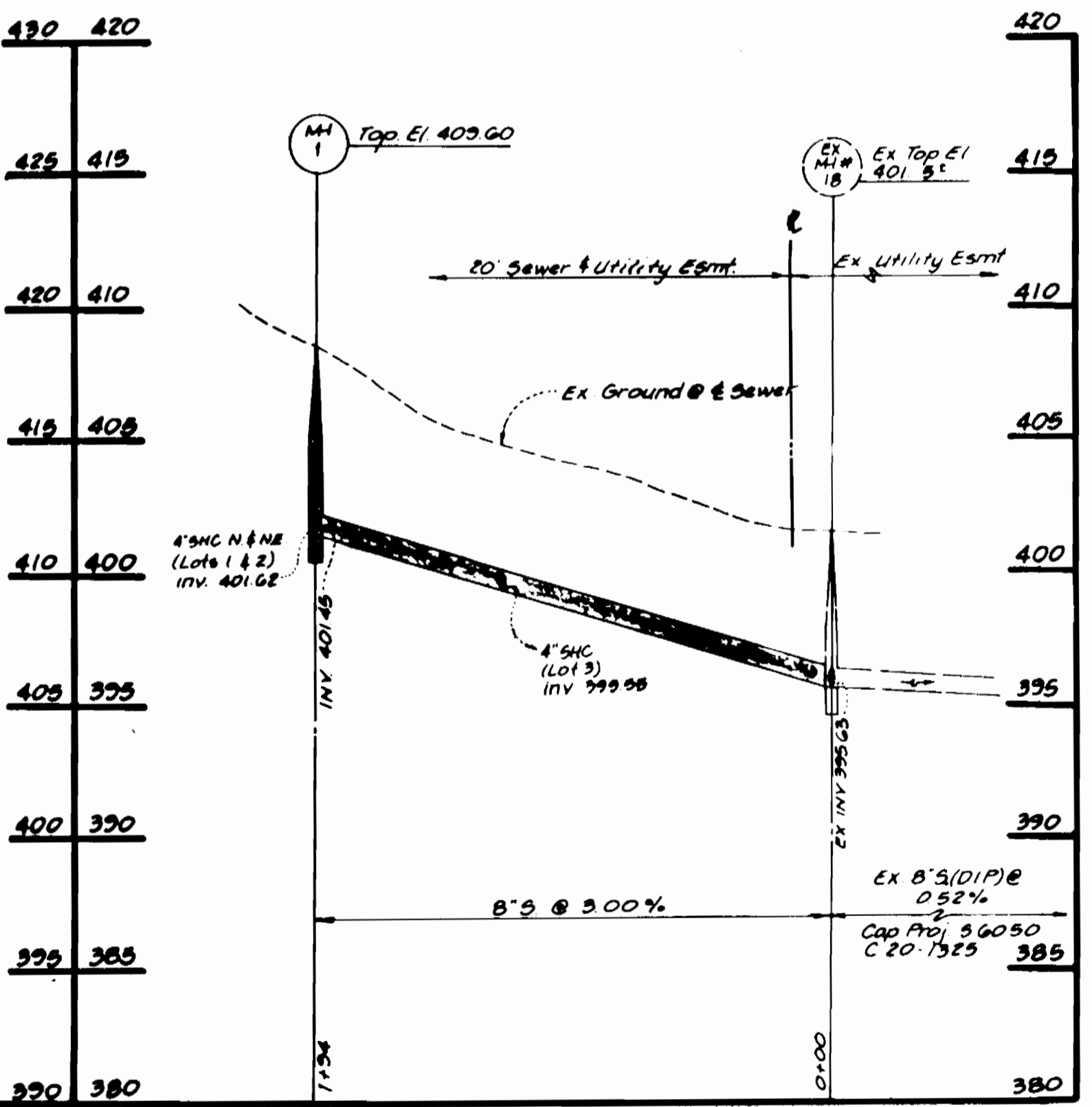
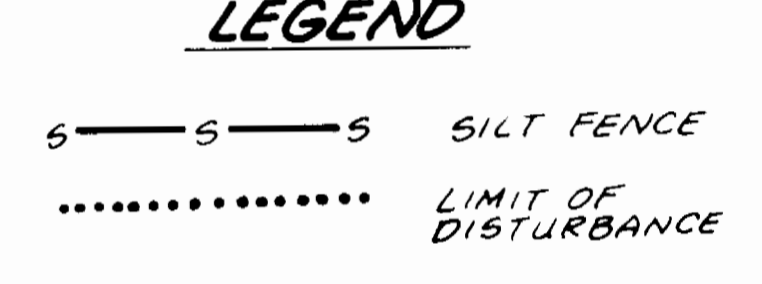
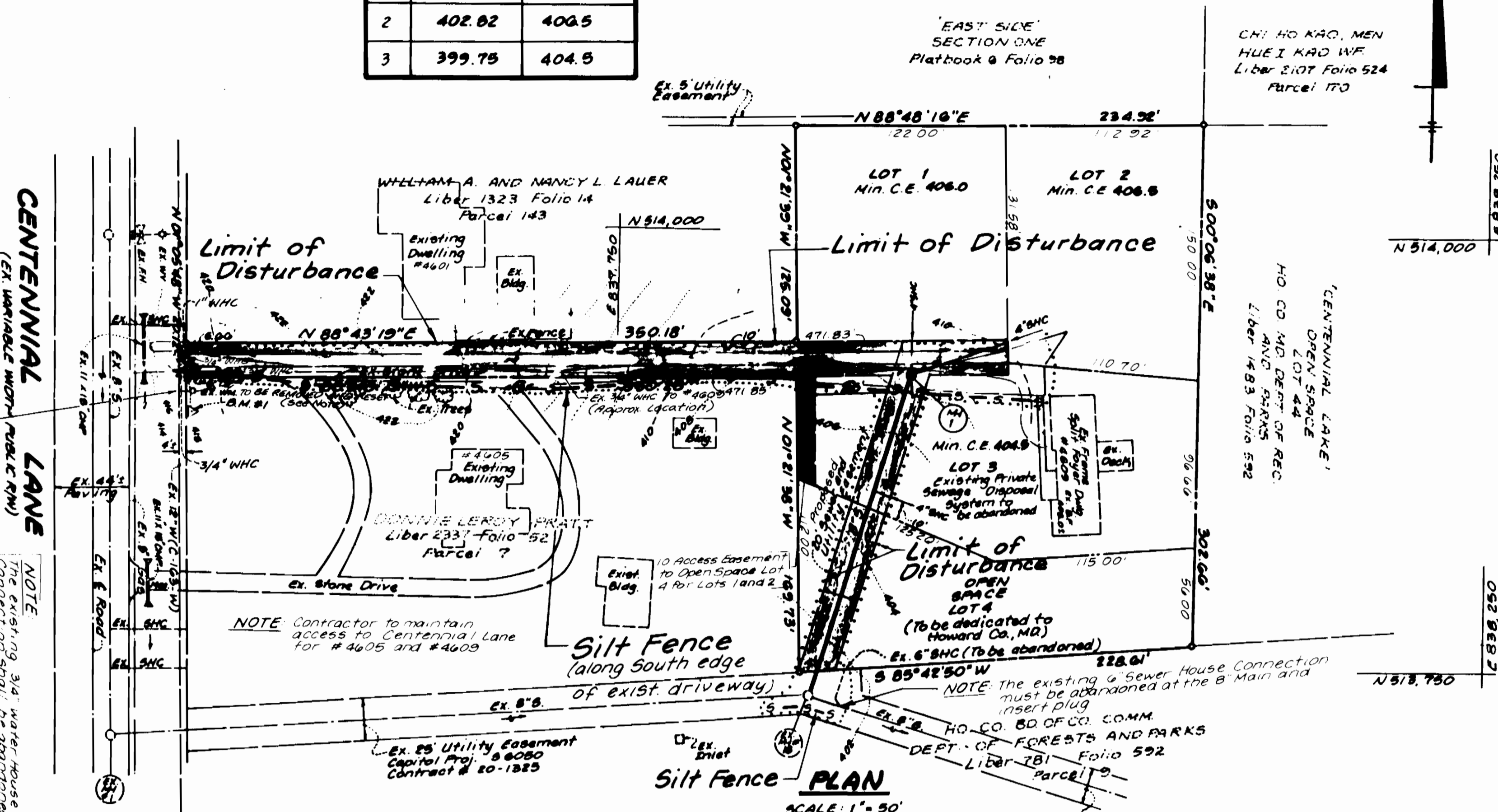
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MD
Signature: *[unclear]* Date: 12-3-92
DIRECTOR OF PUBLIC WORKS
Signature: *[unclear]* Date: 12-3-92
CHIEF - BUREAU OF UTILITIES

LAND DESIGN ENGINEERING, INC.
10620 Guilford Road
Suite 210
Jessup, Maryland
20794
(410) 880-0034, (301) 604-6264

Designed: BDB	LDE	1	Eliminate 4" Water 4' 20' Easement Provide Twin WWC
Drawn: KDW			
Checked: BDB			
Date: Mar. 1992	By	No	REVISION

PLAN & PROFILE WATER AND SEWER MAIN
- for -
SEDIMENT CONTROL
600 SCALE MAP No. 30 BLOCK No. 1

PROPERTY OF
HARRY L. HOLLIDAY, JR.
CONTRACT No. 24 3242 D
LOTS 1 THRU 4
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SHEET 3 OF 3



PROFILE
SCALE: 1" = 50' HORIZ.
1" = 6' VERT.

1. Apply for graded or cleared areas... (text partially obscured)
2. Graded preparation... (text partially obscured)
3. All disturbed areas... (text partially obscured)
4. A maximum of 40 tons... (text partially obscured)
5. All sensitive and critical... (text partially obscured)
6. Following initial work... (text partially obscured)
7. All sediment control... (text partially obscured)
8. All disturbed areas... (text partially obscured)
9. Site Analysis... (text partially obscured)
10. Any sediment control... (text partially obscured)
11. Additional sediment... (text partially obscured)
12. In all cases with... (text partially obscured)
13. Trenches for the... (text partially obscured)