

**CONSTRUCTION SEQUENCE
SEDIMENT CONTROL PROCEDURES**

- OBTAIN SEDIMENT CONTROL PERMIT (ARTICLE 15.05-3).
- CONSTRUCT CONTINUOUS SEDIMENT BARRIER FOR ALL DISTURBED AREAS NOT PROTECTED BY SEDIMENT TRAPS.
- CLEAR, GRUB & STRIP AS REQUIRED TO PROTECT STREAM FROM EROSION OF STORED TOPSOIL. SEPARATE TOPSOIL FROM SUBSOIL.
- CONSTRUCT PIPELINE.
- ALL EXCAVATED MATERIAL SHALL BE STOCKPILED ON HIGH SIDE OF TRENCH.
- RESTORE EROSION CONTROL STRUCTURES DISTURBED BY SEWER CONSTRUCTION.
- STABILIZE DISTURBED AREAS AS CONSTRUCTION PROGRESSES WITH TEMPORARY SEEDING & MULCHING (OR PERMANENT RESTORATION).
- COMPLETE PERMANENT RESTORATION WILL BE IN ACCORDANCE WITH ROAD CONSTRUCTION PLANS F-86-217 & GP-86-70.
- ALL SEDIMENT CONTROL DEVICES SHALL REMAIN IN SERVICE UNTIL REMOVAL IS APPROVED BY THE S.C.S. INSPECTOR.
- RESTORATION (TEMPORARY OR PERMANENT) OF AN AREA BETWEEN MANHOLES SHALL FOLLOW WITHIN ONE WEEK OF PIPE LAYING IN THAT AREA.

CONTRACT NO. 24-1493-D DORSEY HALL PARCEL "B" HOWARD COUNTY, MARYLAND

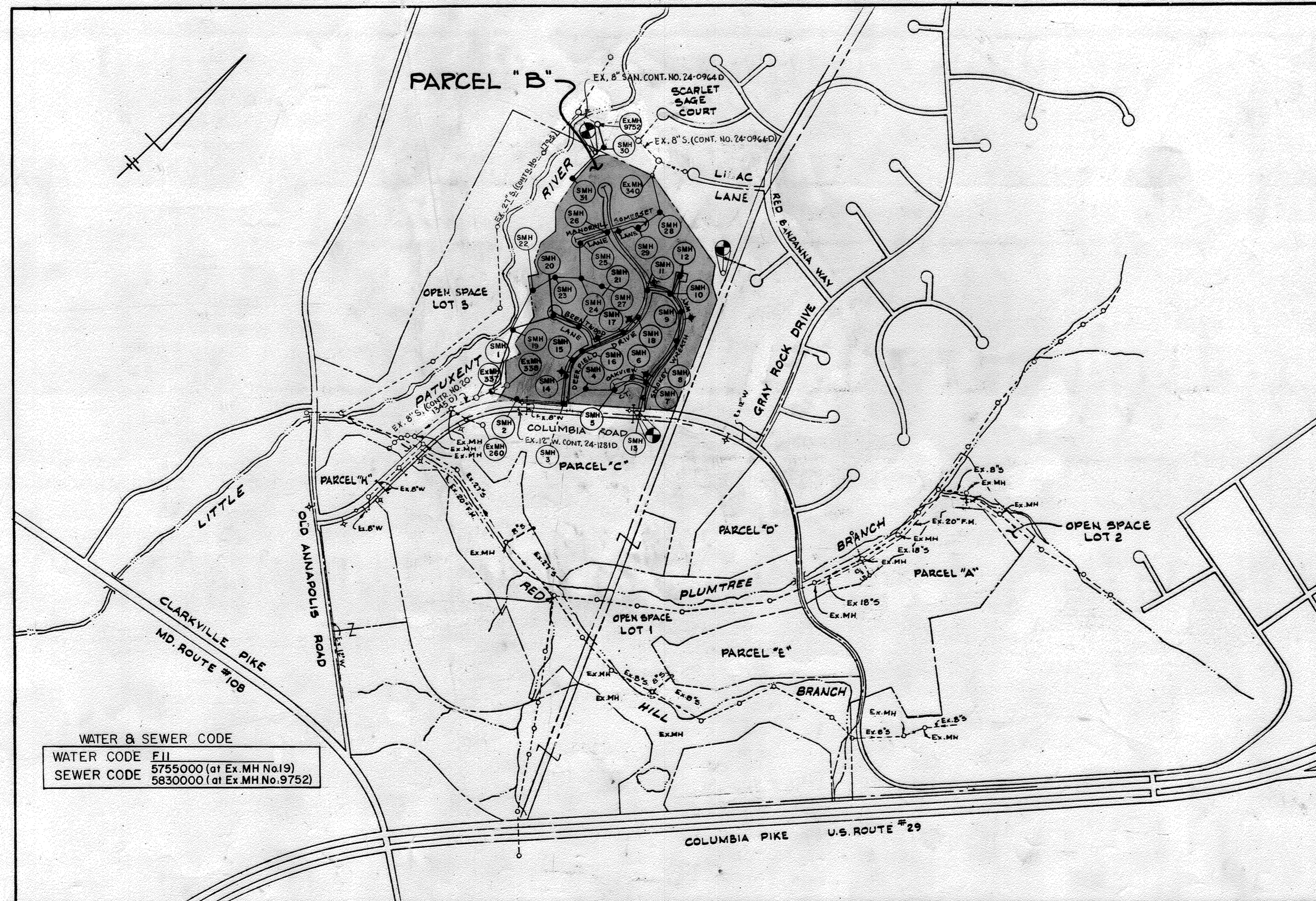
DEPARTMENT OF PUBLIC WORKS

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.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.
- 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 LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN 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
COLONIAL 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. (SEE NO. 24)
- 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.
- 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 1003 THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 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.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G.5.52 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL SINGLE W.H.C.'S SHALL BE 3/4" ALL DOUBLE W.H.C.'S SHALL BE 1" UNLESS OTHERWISE NOTED.
- ALL COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.
- PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
- ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

Bench Marks

- CEI BENCH MARK NO. 'JP' ELEV. 391.70
R.R. SPIKE IN ROOT OF 24" MAPLE TREE NEAR JOGGING PATH IN OPEN SPACE AT THE END OF COAT TAIL COURT @ REAR OF LOT B-41.
- CEI BENCH MARK NO. 1717 ELEV. 334.90
TOP OF IRON PIPE, PROPERTY CORNER @ REAR OF LOT B-27.
- CEI BENCH MARK NO. 23 ELEV. 380.89
'X' CUT ON EAST FLANGE BOLT OF FIRE HYDRANT @ STA. 298+50 ON RIGHT SIDE COLUMBIA RD.
- FOR LOCATION OF BENCH MARKS SEE PLAN SHEETS



WATER & SEWER CODE
WATER CODE EIL
5755000 (at Ex. MH No.19)
SEWER CODE 5830000 (at Ex. MH No.9752)

LOCATION MAP



QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL / SUPPLIER
8" Sewer L.F.	6,510	6,510	PVC SDR-35 J.M. MANUFACTURING
Manholes Ea.	31	31	CON. ATLANTIC PRECAST
8" Water L.F.	3,228	3,228	D.I.P. ATLANTIC STATES
6" Water L.F.	2,036	2,036	D.I.P. " "
8" Valves Ea.	4	4	M 4 H VALVE CO.
6" Valves Ea.	13	13	" "
1/2" Drains For Water Mains Ea.	6	6	" "
Fire Hydrant Ea.	7	7	" "
W.H.C. L.F.	1,940	1,940	TYPE K1 COPPER HALSTED METALS
S.H.C. L.F.	2,074		PVC SDR-35 " "

Wastewater Treatment		ROUTE 108 PUMPING STATION
No. of S.H.C.'s		90
No. of W.H.C.'s		90
Type of Lots		Single Family
No. of Lots		90

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATIONS, AND ROAD CONSTRUCTION PLAN F-86-217

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

J. Helms SIGNATURE 8/4/86 DATE

U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPEMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

APPROVED: *Stephen L. Helms* SIGNATURE 8/4/86 DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE: 8-18-86
CHIEF-BUREAU OF ENGINEERING DATE: 8-18-86
CHIEF-BUREAU OF UTILITIES DATE: 8/18/86
CHIEF-LAND DEVELOPMENT DIVISION - DATE: 8/18/86

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

DATE NO. DESCRIPTION

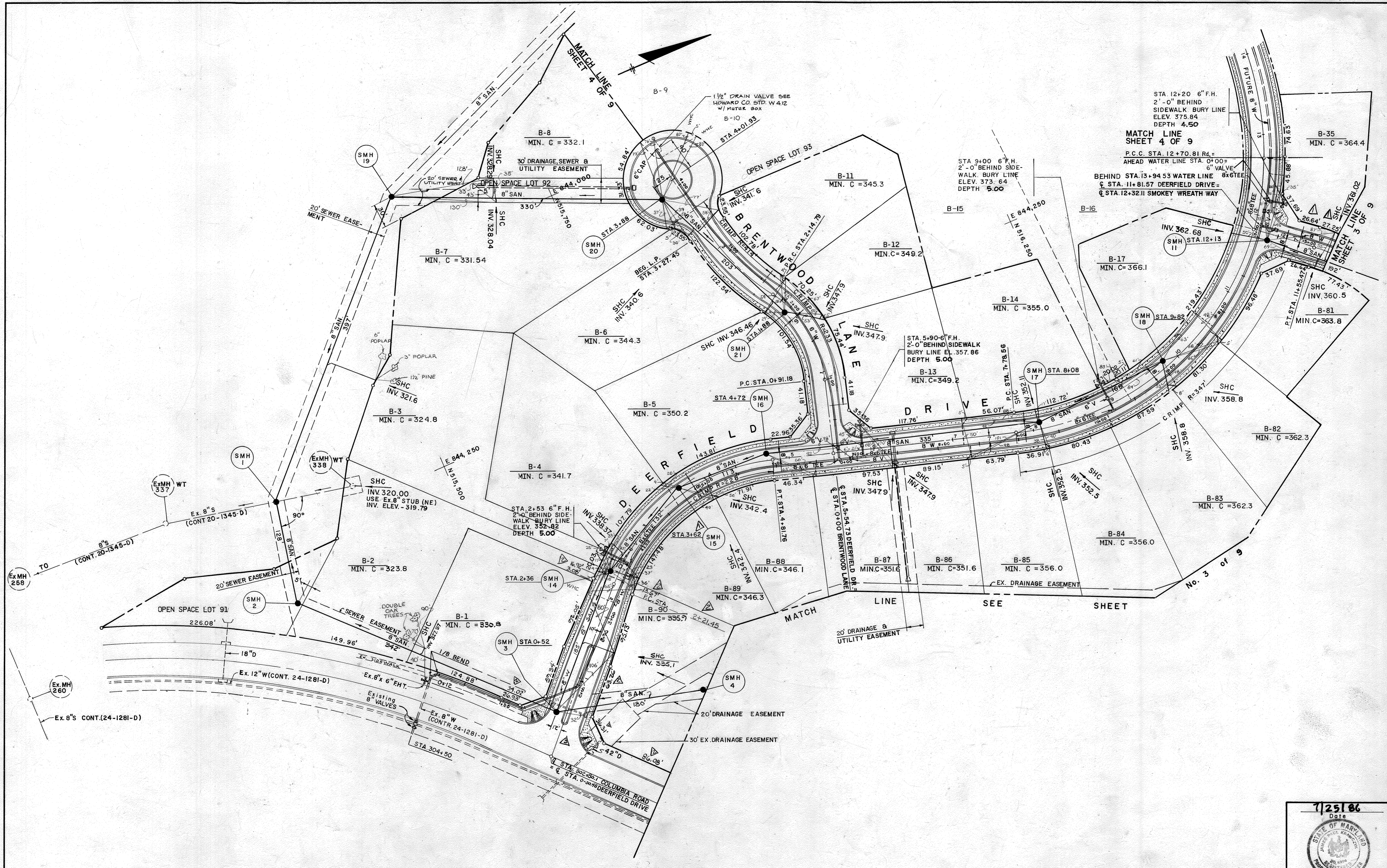
TITLE SHEET

DORSEY HALL - SECTION 2 AREA 2
LOTS 1-98 A RESUB. OF PARCEL B
CONTRACT NO. 24-1493-D

DRAWING NO. 1 OF 9 SCALE AS SHOWN

7/25/86 Date
Professional Engr. No. 6906

AS-BUILT G. WALLACE 12-11-86



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert Wood 8-14-86
 DIRECTOR OF PUBLIC WORKS DATE

William J. Ryan 8-14-86
 CHIEF - BUREAU OF ENGINEERING DATE

William J. Ryan 8-14-86
 CHIEF - LAND DEVELOPMENT DIVISION DATE

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

DATE	NO.	DESCRIPTION
9-5-86	1	ADD SD. & change some dim.
10-17-86	2	CHANGE DIMENSIONS.
12-28-86	3	SHIFTED INTERSECTION 4.7' NORTH

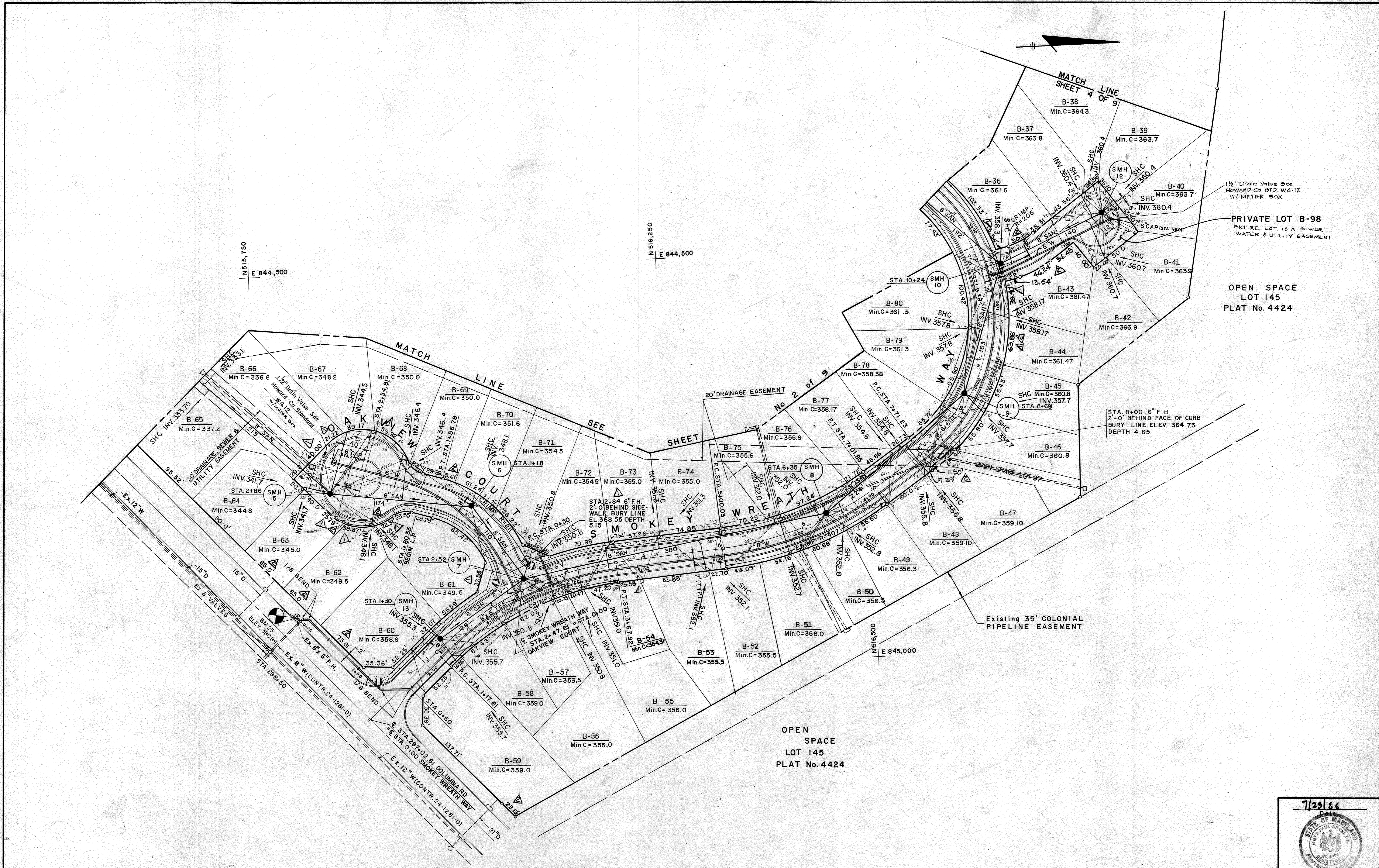
PLAN
 SEWER & WATER MAINS

DORSEY HALL - SECTION 2 AREA 2
 LOTS 1 - 98 A RESUB. OF PARCEL B
 CONTRACT NO. 24-1493-D

DRAWING NO. 2 OF 9
 SCALE 1"=50'

7/25/86
 Date

Jason V. Kung'u
 Professional Engr. No. 6906



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

[Signature]
 DIRECTOR OF PUBLIC WORKS

[Signature]
 CHIEF - BUREAU OF ENGINEERING

[Signature]
 CHIEF - BUREAU OF UTILITIES

[Signature]
 CHIEF - LAND DEVELOPMENT DIVISION

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

DATE	NO.	DESCRIPTION
9-5-86	1	CHANGE LOT DIMENSIONS
9/10/86	2	REVISED LOT DIMENSIONS
9/24/86	3	MOVED WATER VALVE

PLAN
 SEWER & WATER MAINS

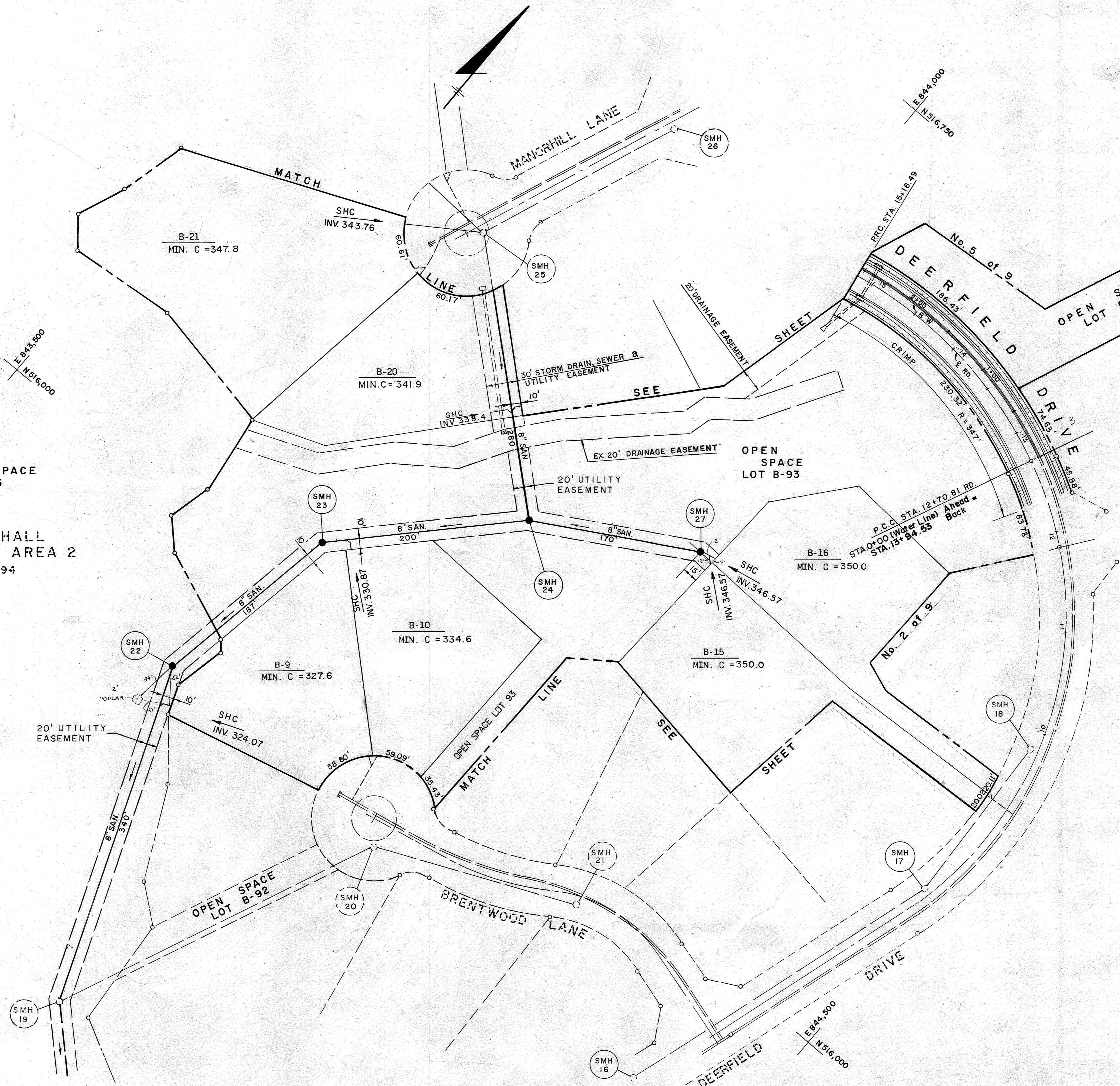
DORSEY HALL - SECTION 2 AREA 2
 LOTS 1 - 98 A RESUB. OF PARCEL B
 CONTRACT NO. 24-1493-D

DRAWING NO. 3 OF 9
 SCALE 1"=50'

7/25/86

[Signature]
 Professional Engr. No. 0906

DORSEY HALL
SECTION 2 AREA 2
PLAT No. 6394



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Wood
DIRECTOR OF PUBLIC WORKS
DATE: 9/13/06

William B. P. ...
CHIEF - BUREAU OF ENGINEERING
DATE: 9/13/06

William H. ...
CHIEF - LAND DEVELOPMENT DIVISION
DATE: 9/13/06

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

DATE	NO.	DESCRIPTION

PLAN
SEWER & WATER MAINS

DORSEY HALL - SECTION 2 AREA 2
LOTS 1 - 98 A RESUB. OF PARCEL B
CONTRACT NO. 24-1493-D

DRAWING NO. 4 OF 9
SCALE 1"=50'

7/25/06
Date

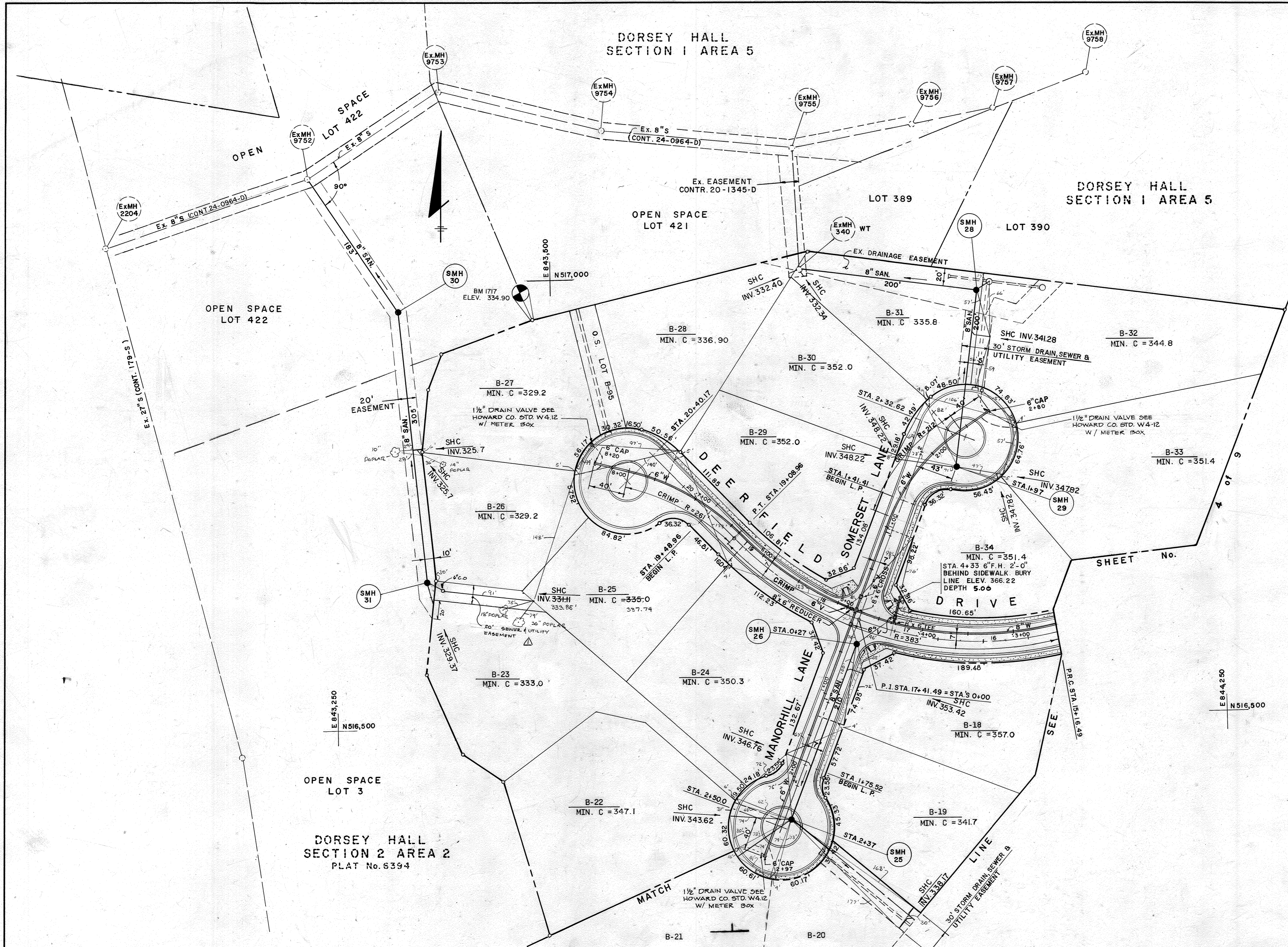
STATE OF MARYLAND
PAUL W. KENNEDY
REGISTERED PROFESSIONAL ENGINEER
Professional Engr. No. 6906

DORSEY HALL SECTION 1 AREA 5

DORSEY HALL SECTION 1 AREA 5

DORSEY HALL SECTION 2 AREA 2
PLAT No. 6394

SHEET No. 4 of 9



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Wood 8/18/86
DIRECTOR OF PUBLIC WORKS DATE

William H. 8/18/86
CHIEF - BUREAU OF UTILITIES DATE

Richard E. 8/18/86
CHIEF - BUREAU OF ENGINEERING DATE

William H. 8/18/86
CHIEF - LAND DEVELOPMENT DIVISION DATE

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

DATE	NO.	DESCRIPTION
7/16/86	1	CHANGED O.S. B-27 TO EASEMENT

PLAN
SEWER & WATER MAINS

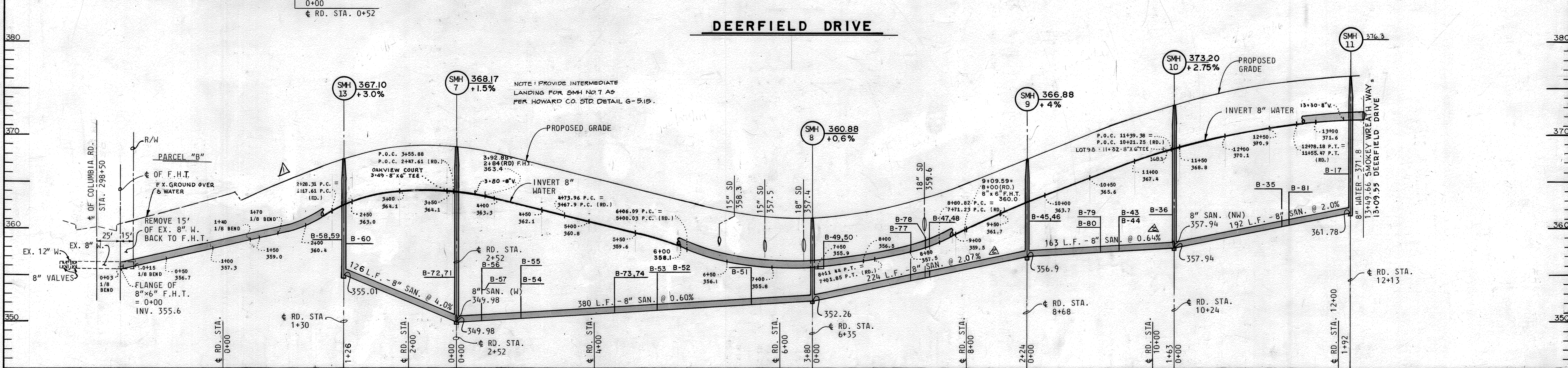
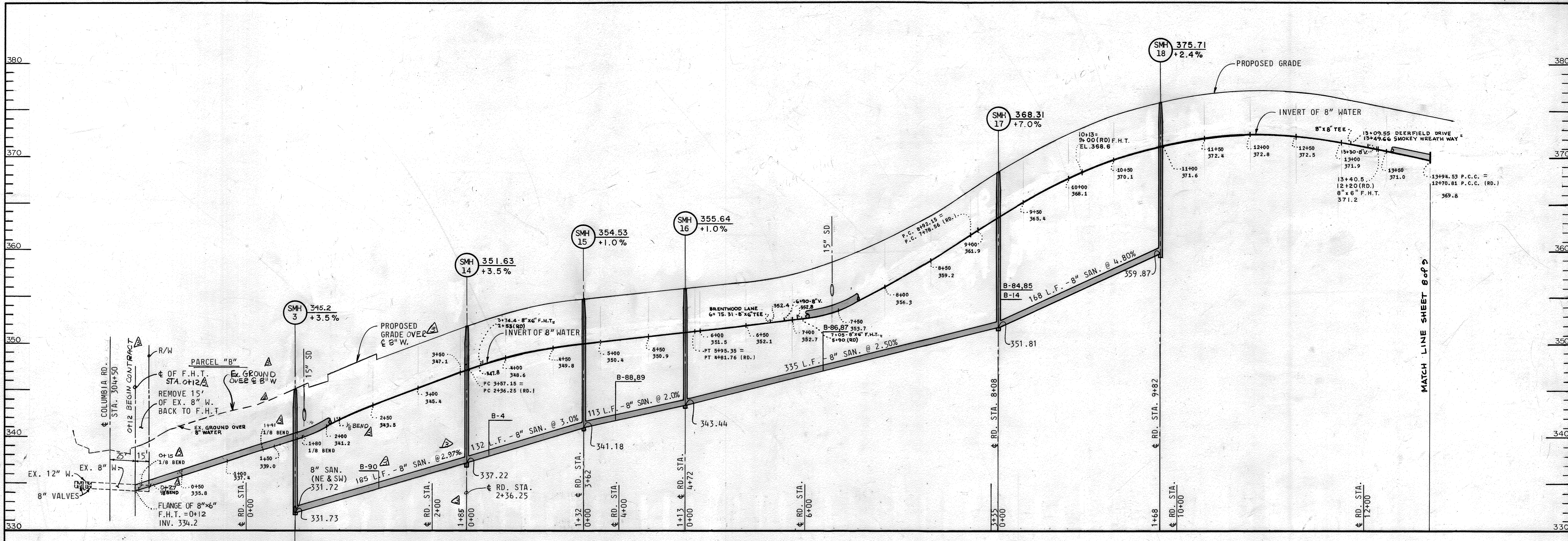
DORSEY HALL - SECTION 2 AREA 2
LOTS 1 - 98 A RESUB. OF PARCEL B
CONTRACT NO. 24-1493-D

DRAWING NO. 5 OF 9
SCALE 1"=50'

7/25/86
Date

STATE OF MARYLAND
JAMES P. BRANNON
PROFESSIONAL ENGINEER
No. 6306

James P. Brannon
Professional Engr. No. 6306



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Ray F. Nunn 9-11-86
DIRECTOR OF PUBLIC WORKS

Robert Howard 10/13/86
CHIEF - BUREAU OF UTILITIES

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

DATE	No.	DESCRIPTION
9-5-86	1	REMOVED PIPE
9/22/86	2	REVISED SLOPES
10/17/86	3	ADD NOTES REVISE DIMENSIONS

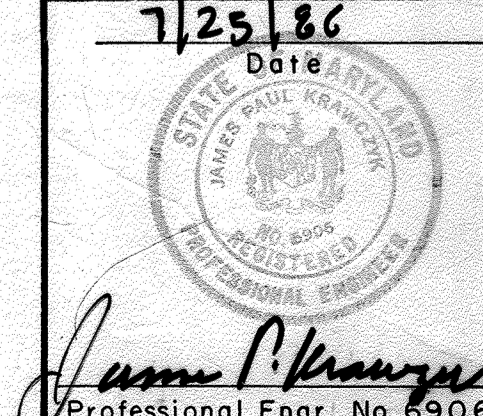
PROFILES
WATER & SEWER MAINS

DORSEY HALL - SECTION 2 AREA 2
LOTS 1 - 98 A RESUB. OF PARCEL B
CONTRACT NO. 24-1493-D

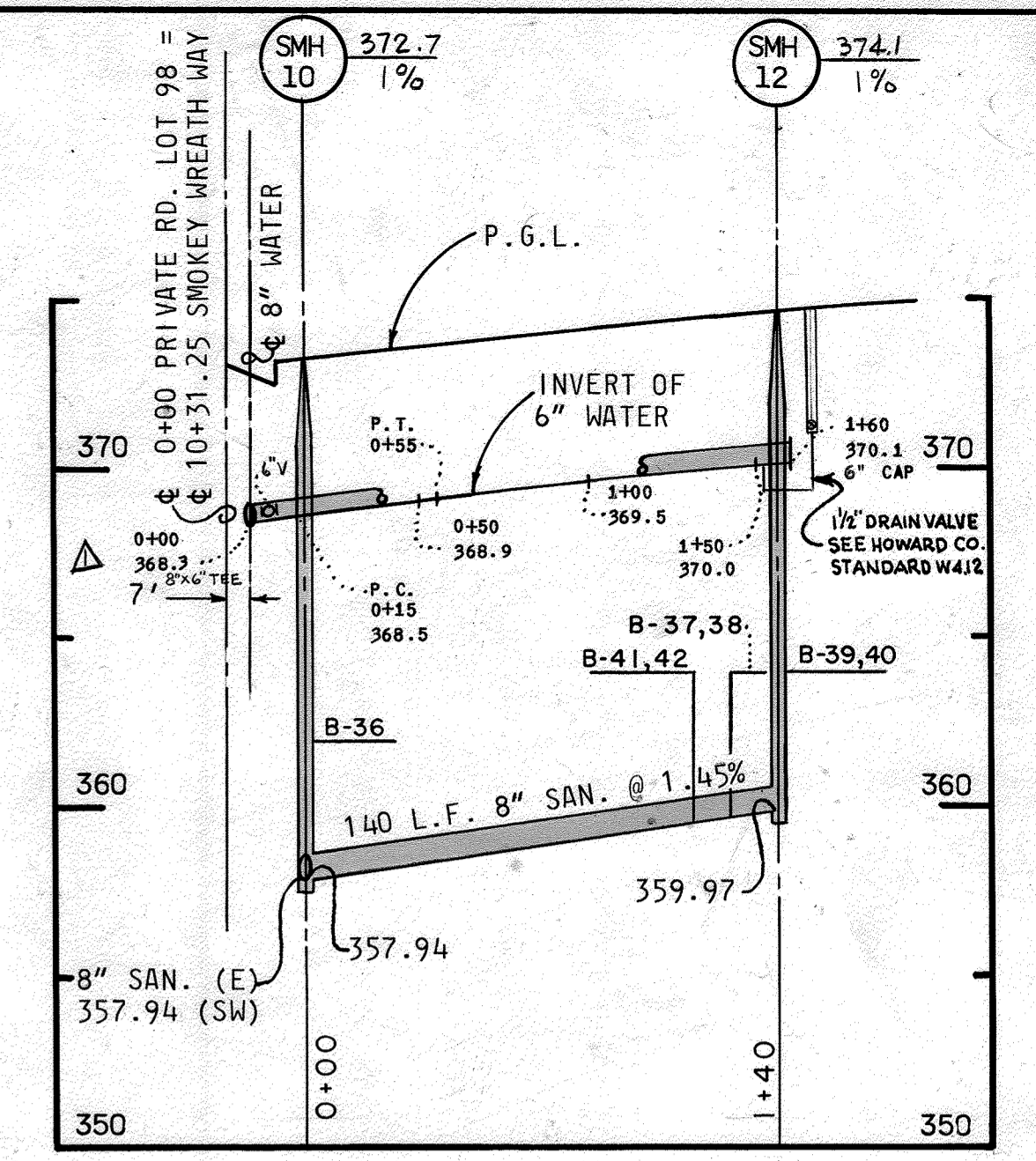
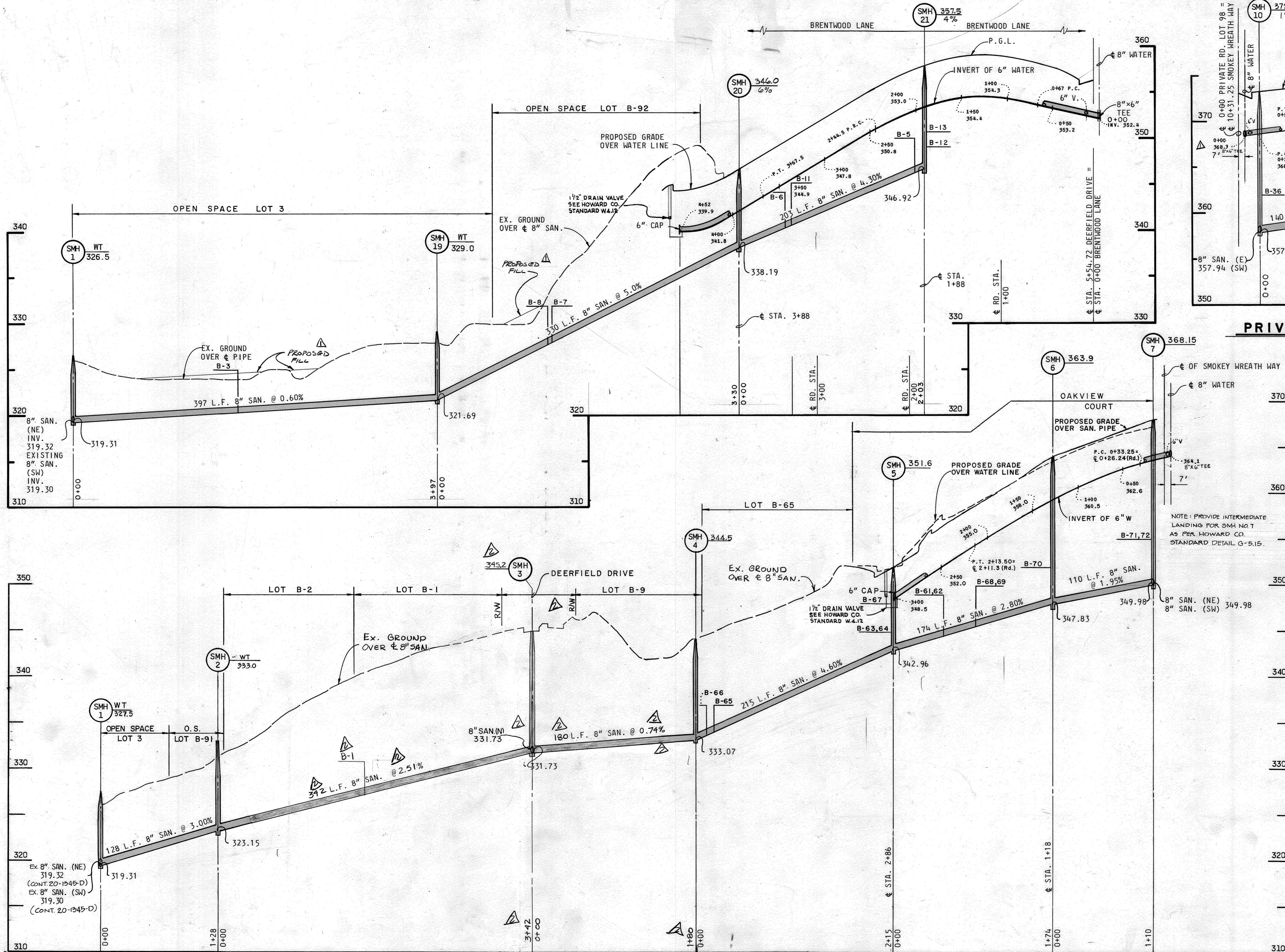
DRAWING NO. 6 OF 9

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

7/25/86 Date



James P. Krueger
Professional Engr. No. 8906



PRIVATE LOT B-98

NOTE: PROVIDE INTERMEDIATE LANDING FOR SMH NO. 7 AS PER HOWARD CO. STANDARD DETAIL G-5.15.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert W. Ward
DIRECTOR OF PUBLIC WORKS
DATE: 8/13/86
CHIEF - BUREAU OF UTILITIES

William E. Pugh
CHIEF - BUREAU OF ENGINEERING
DATE: 8/13/86
CHIEF - LAND DEVELOPMENT DIVISION

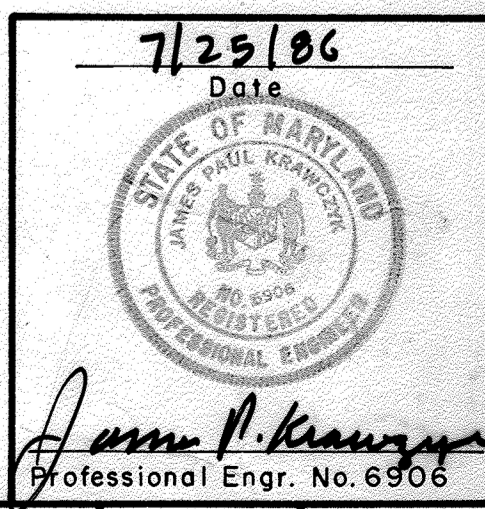
JENNETTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

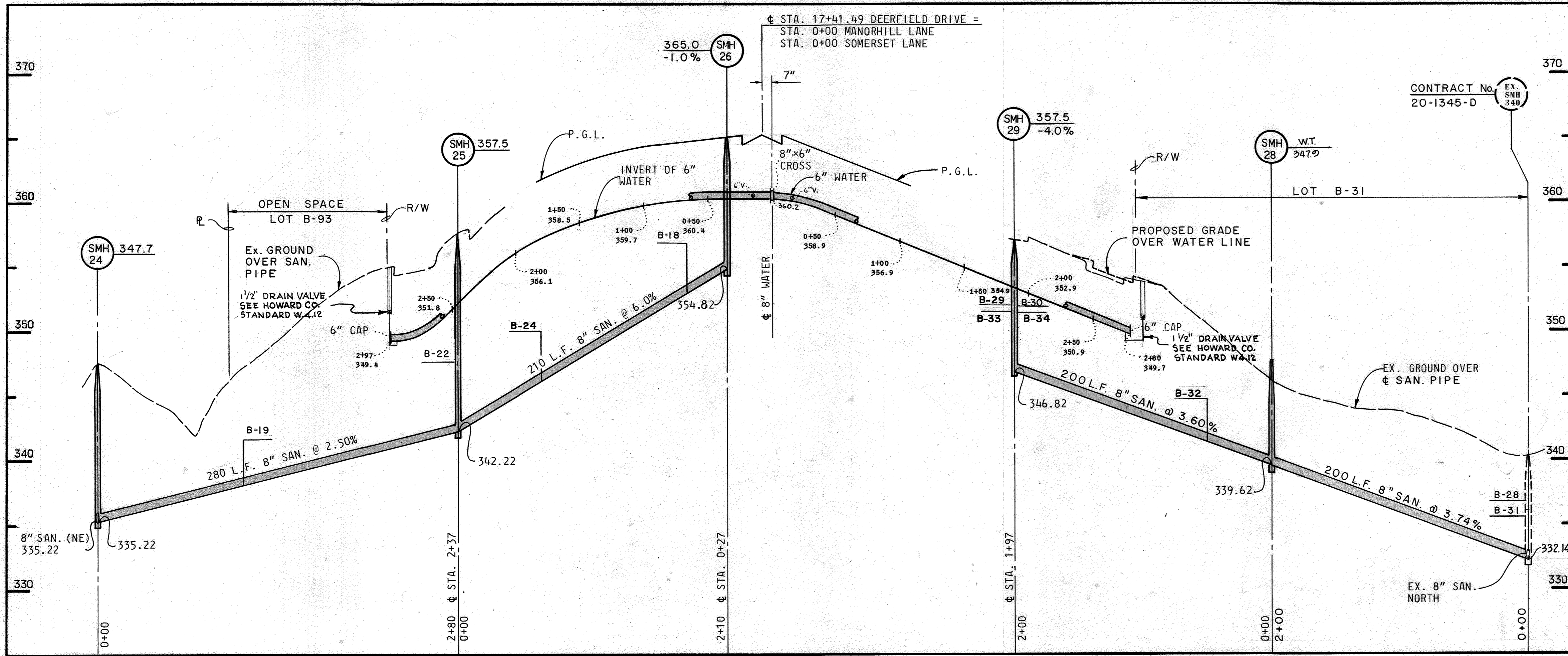
DATE	No.	DESCRIPTION
7/26/86	1	REVISED INV. ELEV., ADDED PROP. FILL
10-20-86	2	REVISED DIMENSIONS & CHNG. PIPE

PROFILES
WATER & SEWER MAINS

DORSEY HALL - SECTION 2 AREA 2
LOTS 1 - 98 A RESUB. OF PARCEL B
CONTRACT NO. 24-1493-D

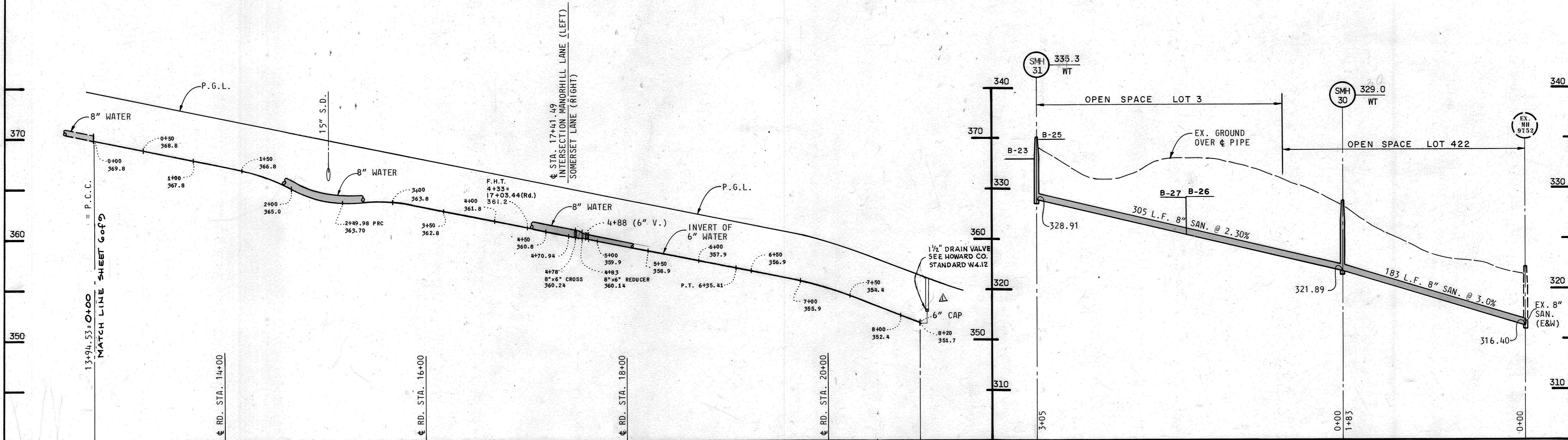
DRAWING NO. 7 OF 9
SCALE 1" = 50' HOR. 1" = 5' VERT.





MANORHILL LANE

SOMERSET LANE



DEERFIELD DRIVE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Wood
DIRECTOR OF PUBLIC WORKS
DATE 8-14-86

William L. Lee
CHIEF OF BUREAU OF ENGINEERING
DATE 8-13-86

Robert Wood
CHIEF - BUREAU OF UTILITIES
DATE 8-13-86

William L. Lee
CHIEF - LAND DEVELOPMENT DIVISION
DATE 8-13-86

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

DATE	No.	DESCRIPTION
7/26/86	1	MOVED VALVE PER SHIT. 3

PROFILES
WATER & SEWER MAINS

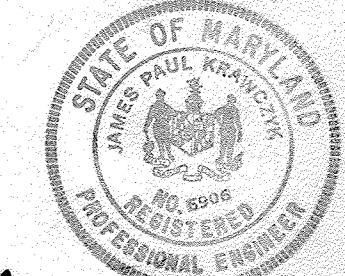
DORSEY HALL - SECTION 2 AREA 2
LOTS 1 - 98 A RESUB. OF PARCEL B
CONTRACT NO. 24-1493-D

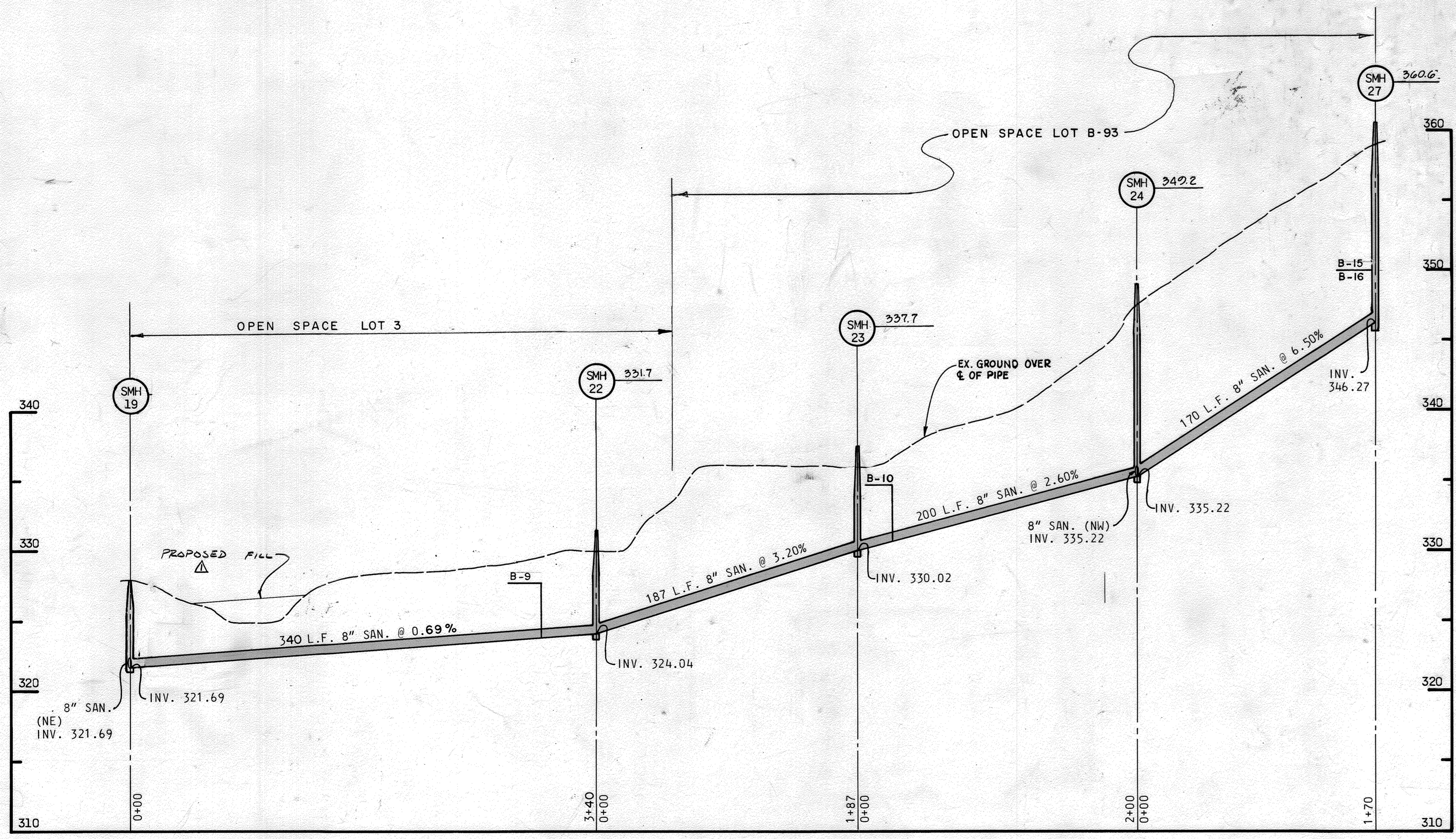
DRAWING NO. 8 OF 9

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

7/25/86
Date

Professional Engr. No. 6906





DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert W. Wood 8-14-86
DIRECTOR OF PUBLIC WORKS - DATE

William B. Patis 8-15-86
CHIEF - BUREAU OF UTILITIES - DATE

William B. Patis 8-15-86
CHIEF - LAND DEVELOPMENT DIVISION - DATE

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

DATE	No.	DESCRIPTION
8/26/86	Δ	ADDED PROP. FILL

PROFILE
SEWER MAINS

DORSEY HALL - SECTION 2 AREA 2
LOTS 1 - 98 A RESUB. OF PARCEL B
CONTRACT No. 24-1493 - D

DRAWING NO. 9 OF 9
SCALE 1" = 50' HOR. 1" = 5' VERT.

7/25/86
Date

James P. Kasper
Professional Engr. No. 6906