

**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 AND STRIP AS REQUIRED TO PROTECT STREAM FROM EROSION OF STORED TOP SOIL. SEPARATE TOP SOIL 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 AND MULCHING (OR PERMANENT RESTORATION).
- COMPLETE PERMANENT RESTORATION WILL BE IN ACCORDANCE WITH ROAD CONSTRUCTION PLANS F-88-104 AND GP-86-40.
- 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 PIPELAYING IN THAT AREA.

CONTRACT NO. 24-1454- D DORSEY HALL PARCEL "D" HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

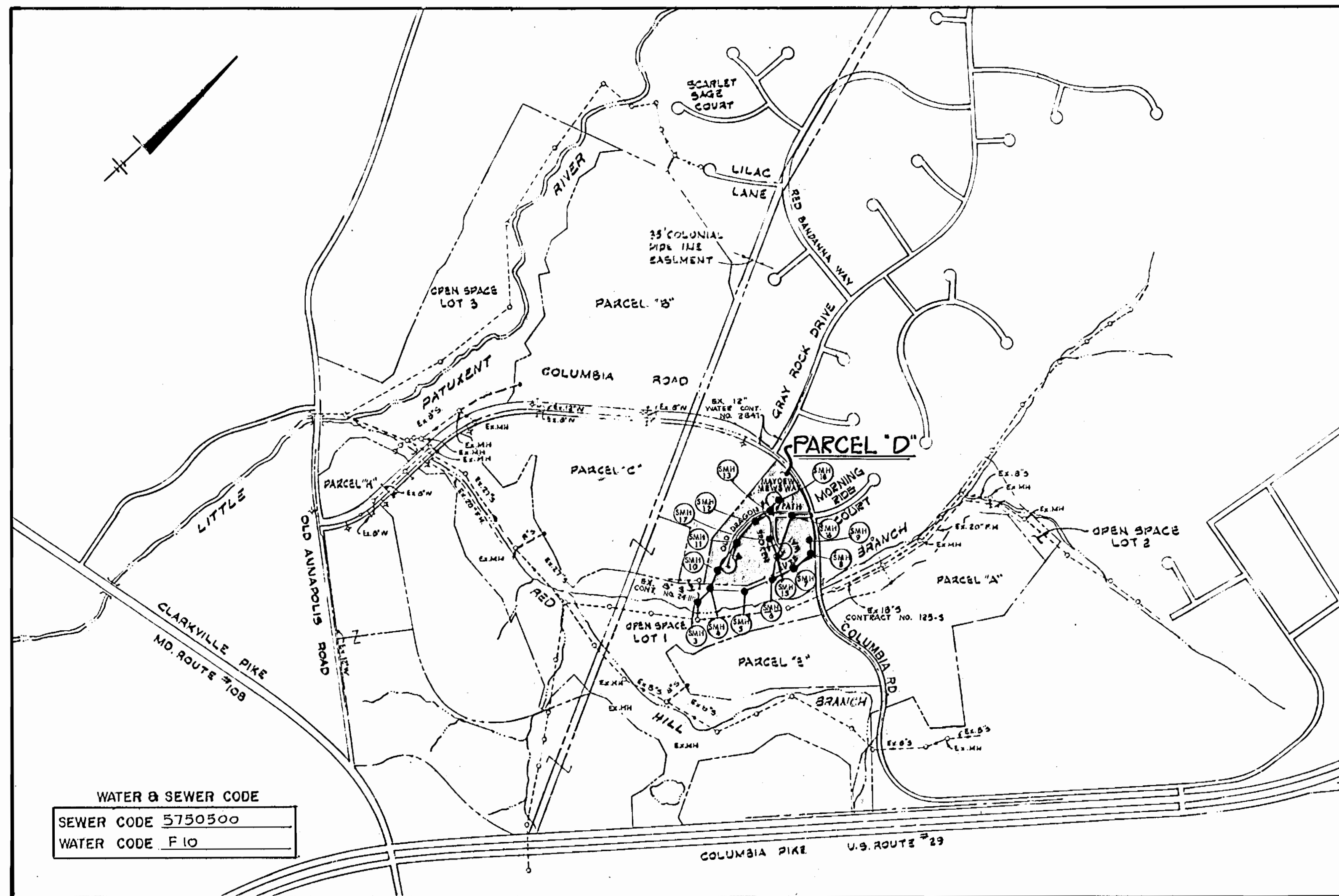
GENERAL NOTES

- 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 - 298-3013
 - 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.
- ALL WATER MAINS TO BE D.I.P. 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 03.52 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED. SET TOP OF FRAME 1'-0" 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

Bench Marks

- CEI BENCH MARK NO. 3** ELEV. 356.346
X-CUT ON NORTHWEST FLANGE BOLT OF FIRE HYDRANT. SOUTH SIDE OF OLD COLUMBIA ROAD 30'± WEST OF MORNING RIDE COURT.
- CEI BENCH MARK NO. 4** ELEV. 341.450
X-CUT ON NORTHWEST FLANGE BOLT OF FIRE HYDRANT. SOUTH SIDE OF OLD COLUMBIA ROAD 455'± EAST OF MORNING RIDE COURT.
- CEI BENCH MARK 'D'** ELEV. 332.02
□ CUT ON RIM OF SANITARY MANHOLE. STA. 10+75± "OLD DRAGON PATH" EXTENDED - 182'± RIGHT - NEAR PROPERTY CORNER NO. 807.

FOR BENCH MARK LOCATIONS SEE SHEET No. 2 OF 4



Wastewater Treatment	Savage
No. of S.H.C.'s	41
No. of W.H.C.'s	41
Type of Lots	Single Family
No. of Lots	41

ITEM	QUANTITIES		MATERIAL/SUPPLIER
	BID	AS-BUILT	
8" Sewer L.F.	2,752		
Manholes Ea.	15		
8" Water L.F.	995		
6" Water L.F.	620		
8" Valves Ea.	1		
6" Valves Ea.	5		
8" x 12" Tapping Sleeve & Valve	1		
Fire Hydrant Ea.	3		
1/2" Drains For Watermains Ea.	2		
W.H.C. L.F.	860		
S.H.C. L.F.	1000		

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATIONS, AND ROAD CONSTRUCTION PLAN F-88-164

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

James M. Nelson
SIGNATURE DATE 6-18-86

U.S. SOIL CONSERVATION SERVICE

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

APPROVED:

Robert W. Nelms
SIGNATURE DATE 6-18-86

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James E. Noyes 7-31-86
DIRECTOR OF PUBLIC WORKS - DATE

Michael P. ... 7-22-86
CHIEF - LAND DEVELOPMENT DIVISION - DATE

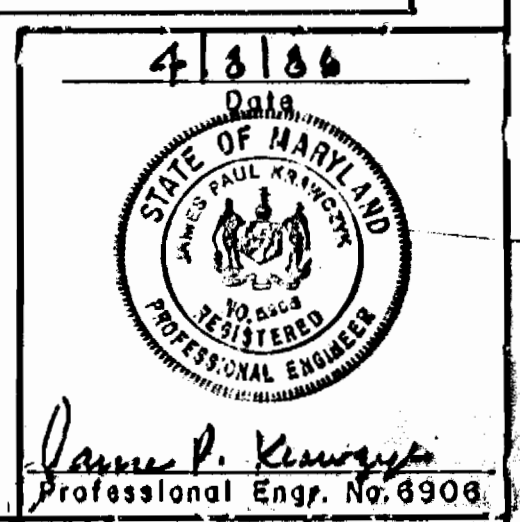
CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

DATE	NO.	DESCRIPTION

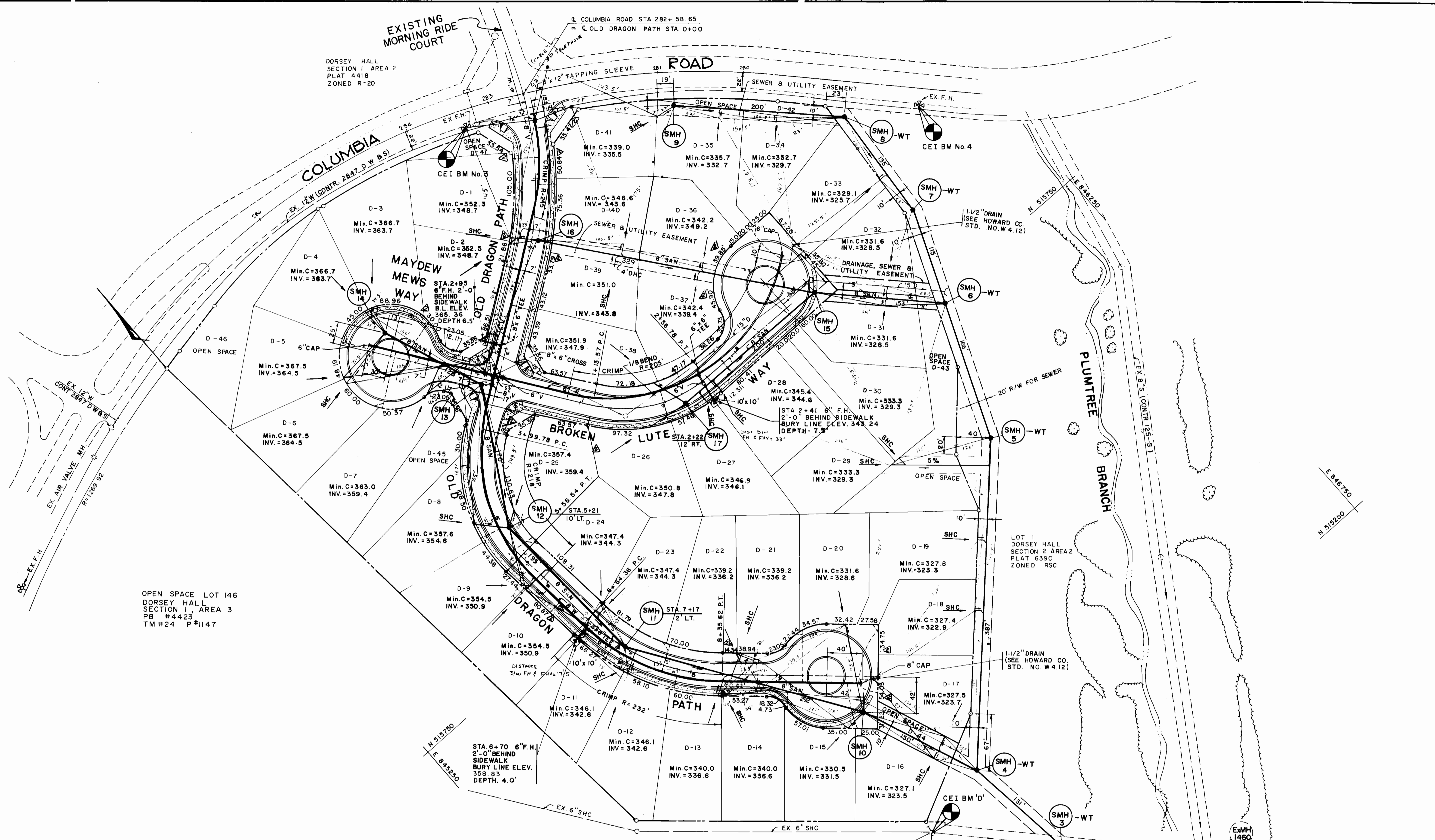
TITLE SHEET

DORSEY HALL - SECTION 2 AREA 2
LOTS D-1 THRU D-47 A RESUB. OF PARCEL 'D'
CONTRACT NO. 24-1454-D

DRAWING NO. 1 OF 4
SCALE AS SHOWN



EXISTING MORNING RIDE COURT
 DORSEY HALL SECTION 1 AREA 2
 PLAT 4418
 ZONED R-20



OPEN SPACE LOT 146
 DORSEY HALL SECTION 1 AREA 3
 PB #4423
 TM #24 P#1147

DORSEY HALL SECTION 2 AREA 2
 ZONED RSC

LOT 1
 DORSEY HALL SECTION 2 AREA 2
 PLAT 6390
 ZONED RSC

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert W. Wood 7-24-86
 DIRECTOR - PUBLIC WORKS DATE

Michael H. ...
 CHIEF - BUREAU OF UTILITIES DATE

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS

TOWN OF ... 2004

Date	No.	Revision Description
7-9-86	1	0274 D18 SHC & FH DEPTHS
8-9-86	2	CHANGE DISTANCES OF LOTS 9 AND 11 FROM ...
8-19-86	3	ADD WATER HOUSE CONNECTIONS

PLAN
 SEWER AND WATER MAINS

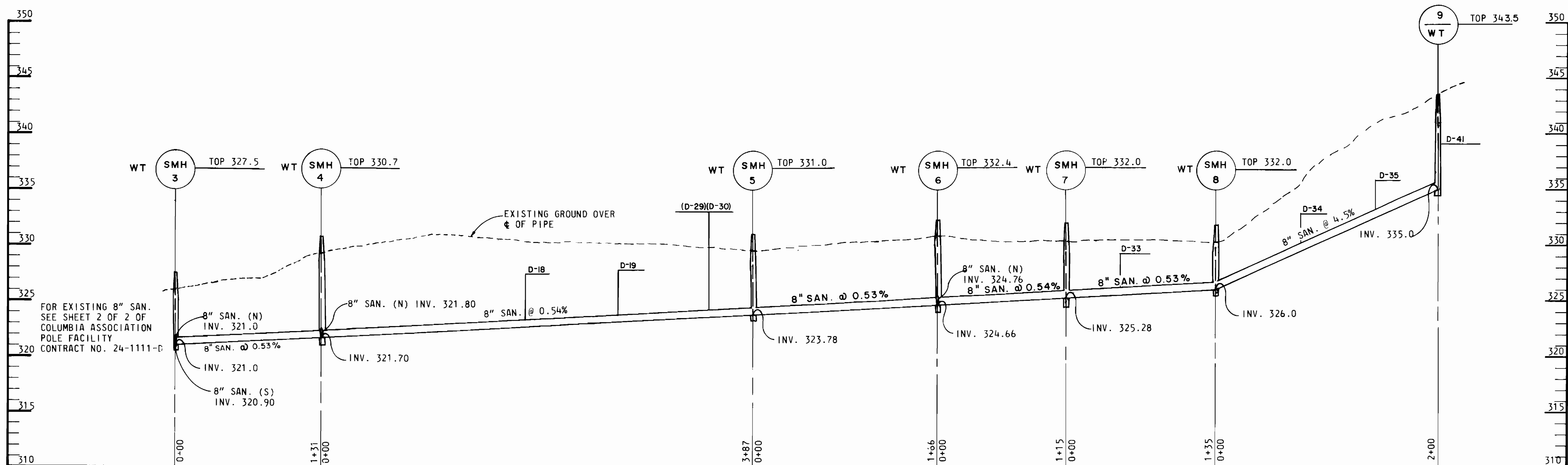
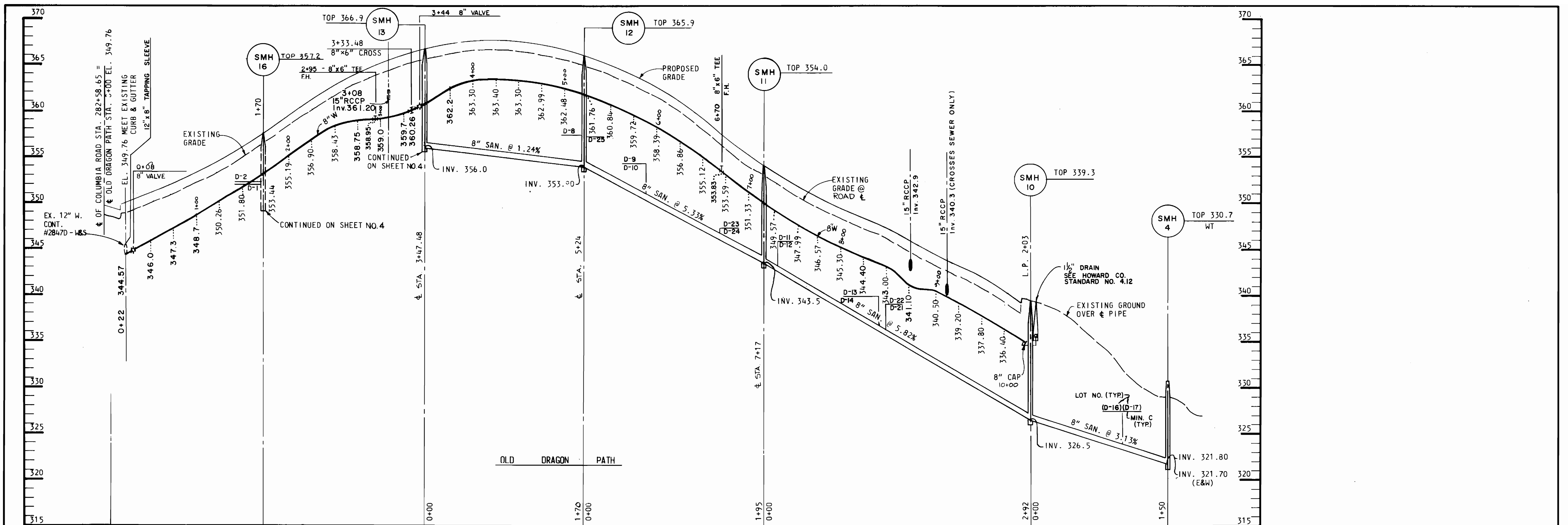
DORSEY HALL - SECTION 2 AREA 2
 LOTS D-1 THRU D-47 A RESUB OF PARCEL 'D'
 2nd ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 CONTRACT No. 24-1454-D

DRAWING NO. 2 OF 4
 SCALE 1"=50'

4.2.86
 Date

James R. ...
 Professional Engr. No. 6906

AS BUILT 12-5-86



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DIRECTOR OF PUBLIC WORKS: [Signature]
 CHIEF - BUREAU OF UTILITIES: [Signature]
 CHIEF - LAND DEVELOPMENT DIVISION: [Signature]

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

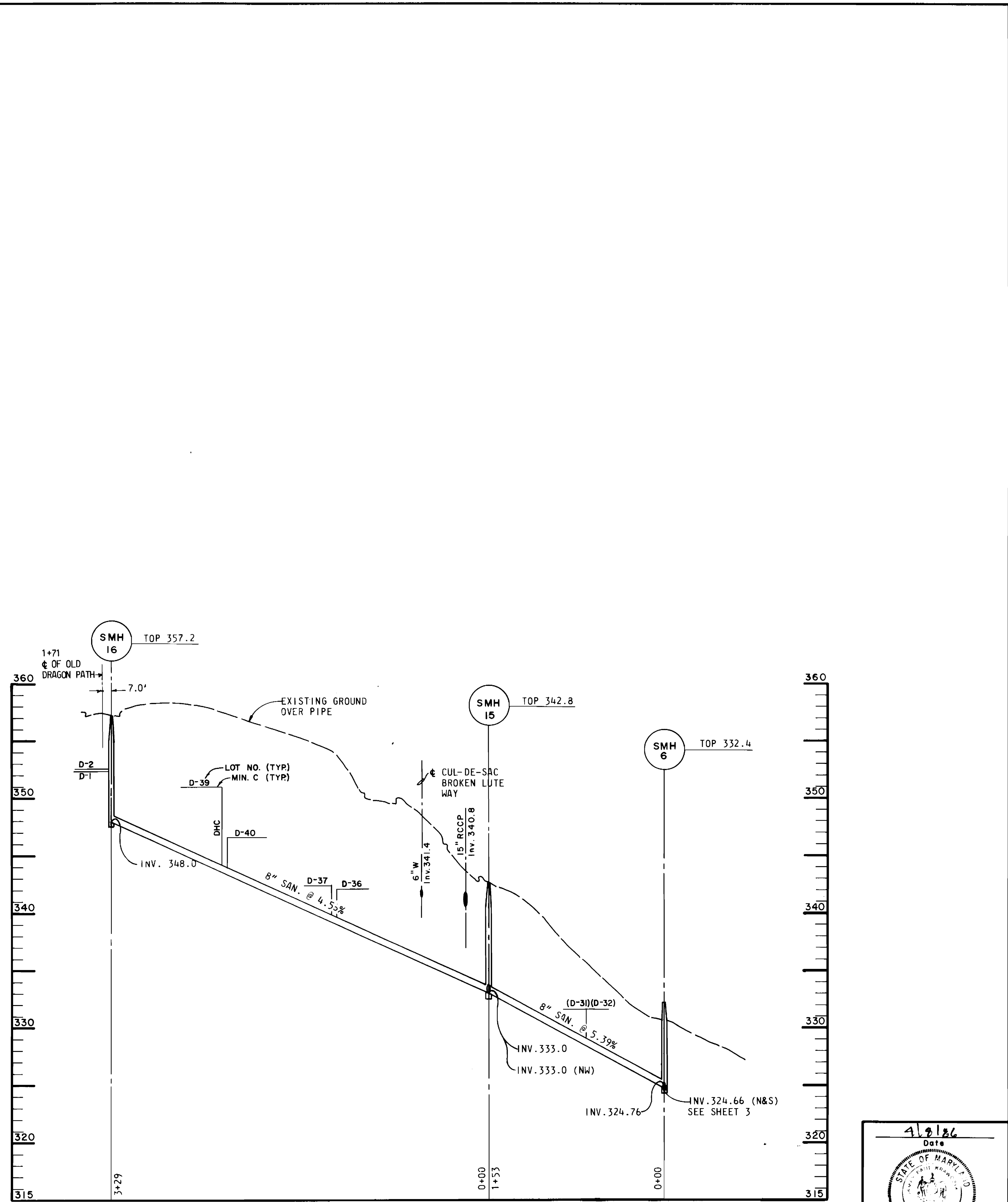
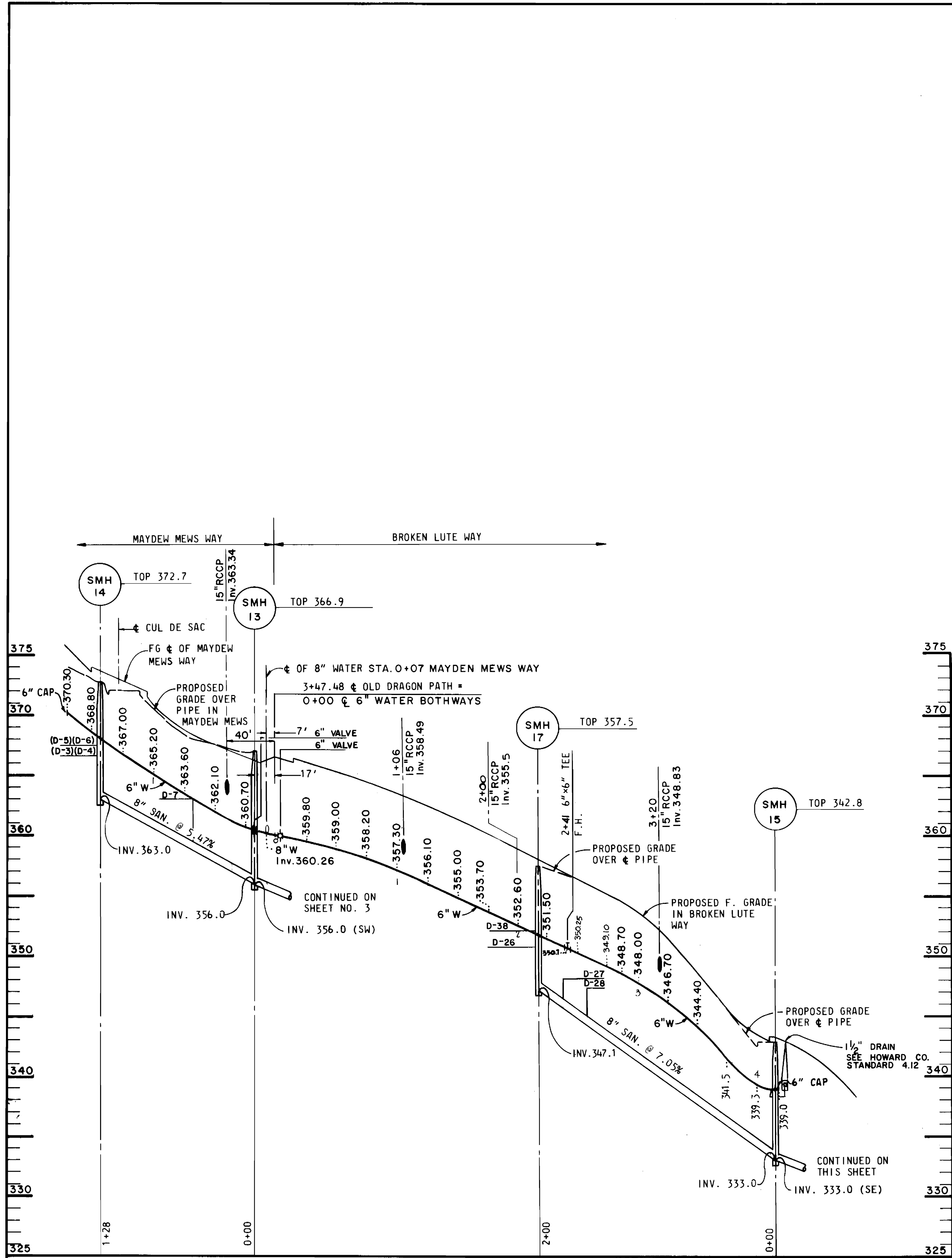
DATE	NO.	DESCRIPTION
7-9-86	1	

PROFILES
 SEWER & WATER MAINS

DORSEY HALL - SECTION 2 AREA 2
 LOTS D-1 THRU D-47 A RESUB. OF PARCEL 'D'
 CONTRACT NO. 24-1454-D

DRAWING NO. 3 OF 4
 SCALE: HOR. 1"=50' VER. 1"=5'

4/8/86
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 [Signature]
 Professional Engr. No. 6906



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert Wood 7-24-86
 DIRECTOR OF PUBLIC WORKS - DATE

William F. F. 7-23-86
 CHIEF - BUREAU OF UTILITIES - DATE

William F. F. 7-23-86
 CHIEF - BUREAU OF ENGINEERING - DATE

William F. F. 7-23-86
 CHIEF - LAND DEVELOPMENT DIVISION - DATE

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

DATE	NO.	DESCRIPTION

PROFILES
 SEWER & WATER MAINS

DORSEY HALL - SECTION 2 AREA 2
 LOTS D-1 THRU D-47 A RESUB. OF PARCEL 'D'
 CONTRACT NO. 24-1454-D

DRAWING NO. 4	SCALE HOR. 1"=50'
OF 4	VER. 1"=5'

4/2/86
 Date

STATE OF MARYLAND
 REGISTERED PROFESSIONAL ENGINEER
James P. Morgan
 Professional Engr. No. 6906