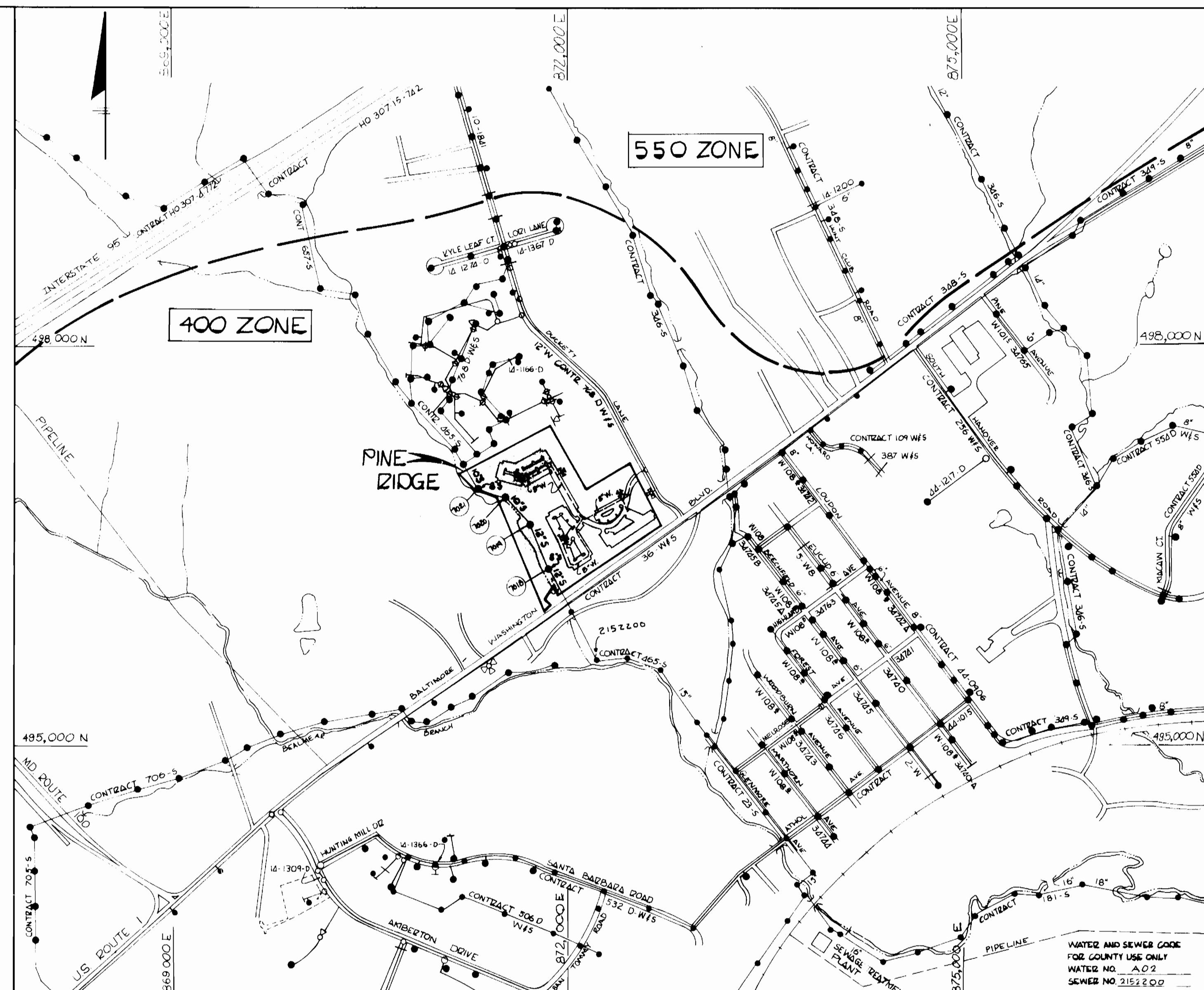


ITEM	QUANTITIES		SUPPLIER
	EST'D	AS BUILT	
8" WATER	1930 L.F.		
6" WATER	95 L.F.		
4" WATER	65 L.F.		
2" W.H.C.	172 L.F.		
1" W.H.C.			
FIRE HYDRANTS	5		
12"x8" TAPPING SLEEVE & 8" VALVE	1		
8" SEWER	62 L.F.		
6" SEWER (D.I.P.)			
MANHOLES	0		
6" SEWER	0		
8" VALVES	4		
4" VALVES (EXCLUDING F.H.'S)	1		
6" F.H. VALVES	5		
4" METER VAULTS	3		
2" METER VAULTS	17		



TYPE OF BUILDING	APARTMENTS
NUMBER OF UNITS	312
NUMBER OF BLDGS.	27
NO. OF WATER HOUSE CONNECTIONS	27
NO. OF SEWER HOUSE CONNECTIONS	27
DRAINAGE AREA	1,000,000

SCALE 1"=600'

CONTRACT NO. - 14-1572-D

PINE RIDGE

WATER AND SEWER MAIN EXTENSIONS

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. THE OWNER HAS CONTACTED THE UTILITIES 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 THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM THE MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
BALTIMORE GAS & ELECTRIC COMPANY - CONTRACTOR SERVICES: 561-2585
BALTIMORE GAS & ELECTRIC COMPANY - UNDER GROUND DAMAGE CONTROL: 234-5621
BALTIMORE GAS & ELECTRIC COMPANY - TROUBLE SHOOTING: 298-9013
"MISS UTILITY": 1-559-0100
CHESAPEAKE & POTOMAC TELEPHONE COMPANY: 725-9976
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 AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- 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., R.C.S.P., P.V.C., V.C.P.X., OR ACP CLASS 2400 UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
- ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
- TOP OF WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE 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 TO BE COMPACTED IN ACCORDANCE WITH SECTION 1003 AND 1008 OF THE STANDARD SPECIFICATIONS.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED SO AS TO HAVE AT LEAST ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- MANHOLES LOCATED WITHIN PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAME AND COVER, STANDARD DETAIL G5.51.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- FOR ALL COPPER WATER HOUSE CONNECTIONS, UTILIZE FLARED TYPE FITTINGS ONLY.
- 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.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- W.T. DESIGNATES WATERTIGHT MANHOLES.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 16 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS & SPECIFICATIONS FOR SOIL EROSION & SEDIMENT CONTROL IN DEVELOPING AREAS & ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN (SDP-87-166)

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

John M. Klein 5-27-87
U.S. SOIL CONSERVATION SERVICE DATE

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

APPROVED
[Signature]
HOWARD SOIL CONSERVATION DISTRICT DATE 5/27/87

STABILIZATION NOTES

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: 1) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALS, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1 2) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE

CONTRACT NO. 14-1572-D
PINE RIDGE
WATER AND SEWER EXTENSION
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE
Melissa S. Bannister 6/15/87
CHIEF, BUREAU OF UTILITIES DATE

CHIEF, BUREAU OF ENGINEERING DATE
[Signature]
CHIEF LAND DEVELOPMENT DIVISION DATE

DEWBERRY & DAVIS
ARCHITECTS - ENGINEERS - PLANNERS - SURVEYORS
3300 N. RIDGE ROAD
SUITE 100
ELLICOTT CITY, MD 21043
(301) 461-7476 BALTIMORE
(301) 661-4970 WASHINGTON

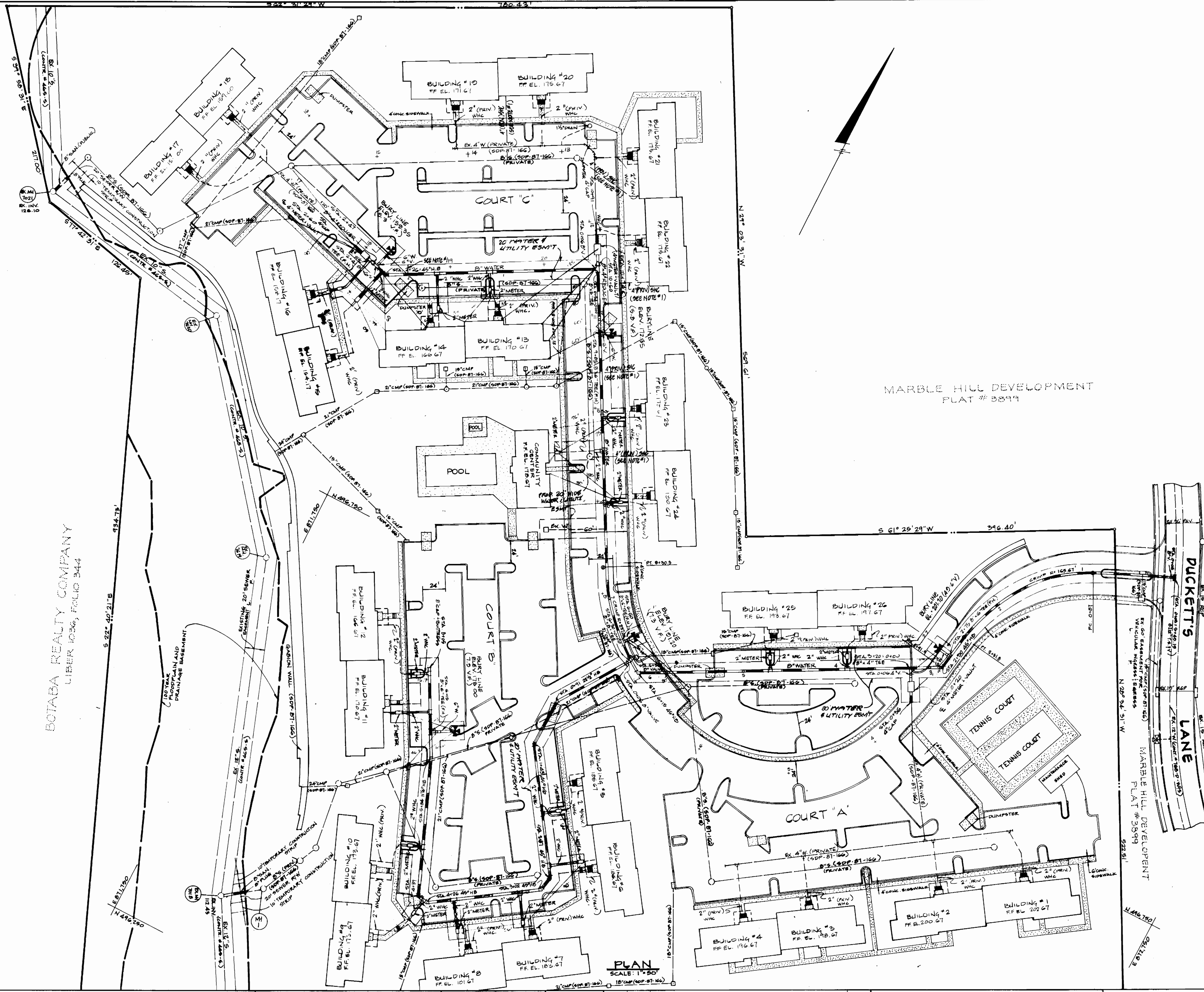
DES: JPH			
DRN: WOL			
CHK: BDB			
DATE: 3-19-87	BY: NO	REVISION: REVISED WATER CROSSINGS	DATE: 7-27-87

TITLE SHEET

600' SCALE MAP NO. 37430 BLOCK NO. 1273

PINE RIDGE
CONTRACT NO. 14-1572-D
1ST. ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 4



- NOTES:
1. ALL IDENTIFIED CROSSINGS SHALL HAVE 2' CONCRETE ENGAGEMENTS
 2. 12 UNITS PER BUILDING

CONTRACT NO. 14-1572-D
FINE RIDGE
WATER & SEWER EXTENSION
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEWBERRY & DAVIS
ARCHITECTS ENGINEERS PLANNERS SURVEYORS

DES: J.P.H.			
DRN: L.A.J./W.E.O.			
CHK: B.D.B.	REVISED AS PER COMMENT DATED JUNE 23, 1969	7/23/69	
DATE: 5-19-67	REVISED WATER CROSSINGS	7/23/67	
BY: NO.	REVISION	DATE	

PLAN
WATER & SEWER MAINS

PINE RIDGE
CONTRACT NO. 14-1572-D
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
2 OF 4

DRAWING 44-132-60150

James F. ...
DIRECTOR OF PUBLIC WORKS
DATE: 6-16-69

Richard ...
CHIEF, BUREAU OF UTILITIES
DATE: 6/15/69

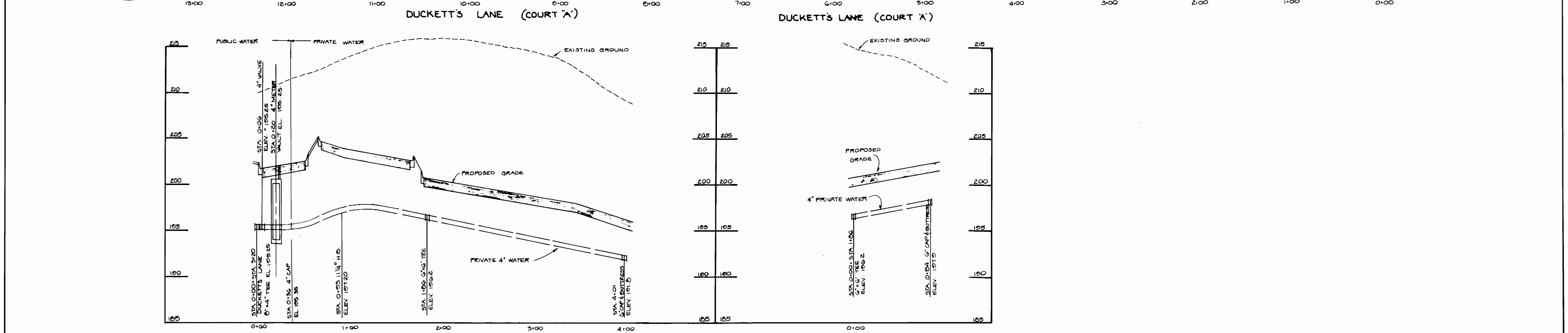
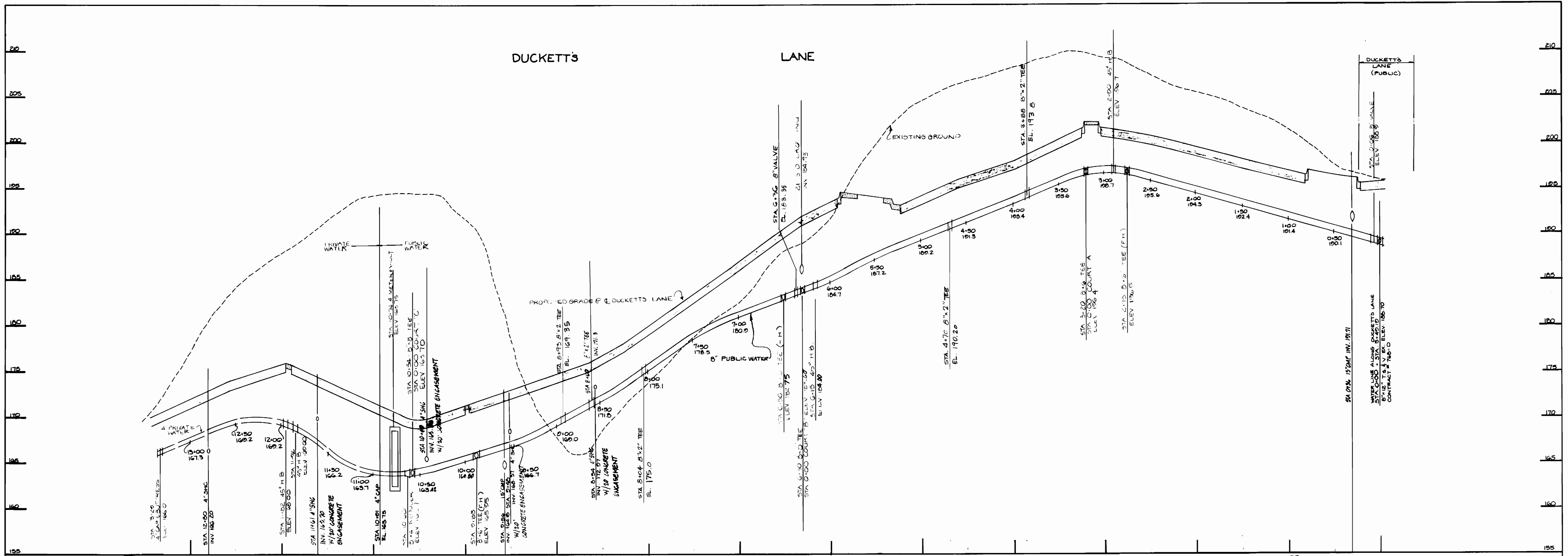
James H. ...
CHIEF, BUREAU OF ENGINEERING
DATE: 6-16-69

Walter ...
CHIEF, LAND DEVELOPMENT DIVISION
DATE: 6-16-69

9900 N. RIDGE ROAD
SUITE 100
BRIGHT CITY, MARYLAND 21045

(301) 461-1418 BALTIMORE
(301) 621-4370 WASHINGTON

10/5



PROFILES
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

CONTRACT NO. 14-1572-0
FINE RIDGE
WATER & SEWER EXTENSION
HOWARD COUNTY, MD.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
6-16-87
DATE
6/15/87
DATE

DEWBERRY & DAVIS
ARCHITECTS - ENGINEERS - PLANNERS - SURVEYORS
2500 N. RIDGE ROAD
SUITE 100
ELLICOTT CITY, MD. 21043
(301) 461-7478 BALTIMORE
(301) 661-4070 WASHINGTON



DES: J.P.H.				
DRN: K.A.F.				
CHK: D.D.B.				
DATE: 5/15/87	BY: [Signature]	NO. [Blank]	REVISION: REVISED WATER CROSSINGS	DATE: 11/29/87

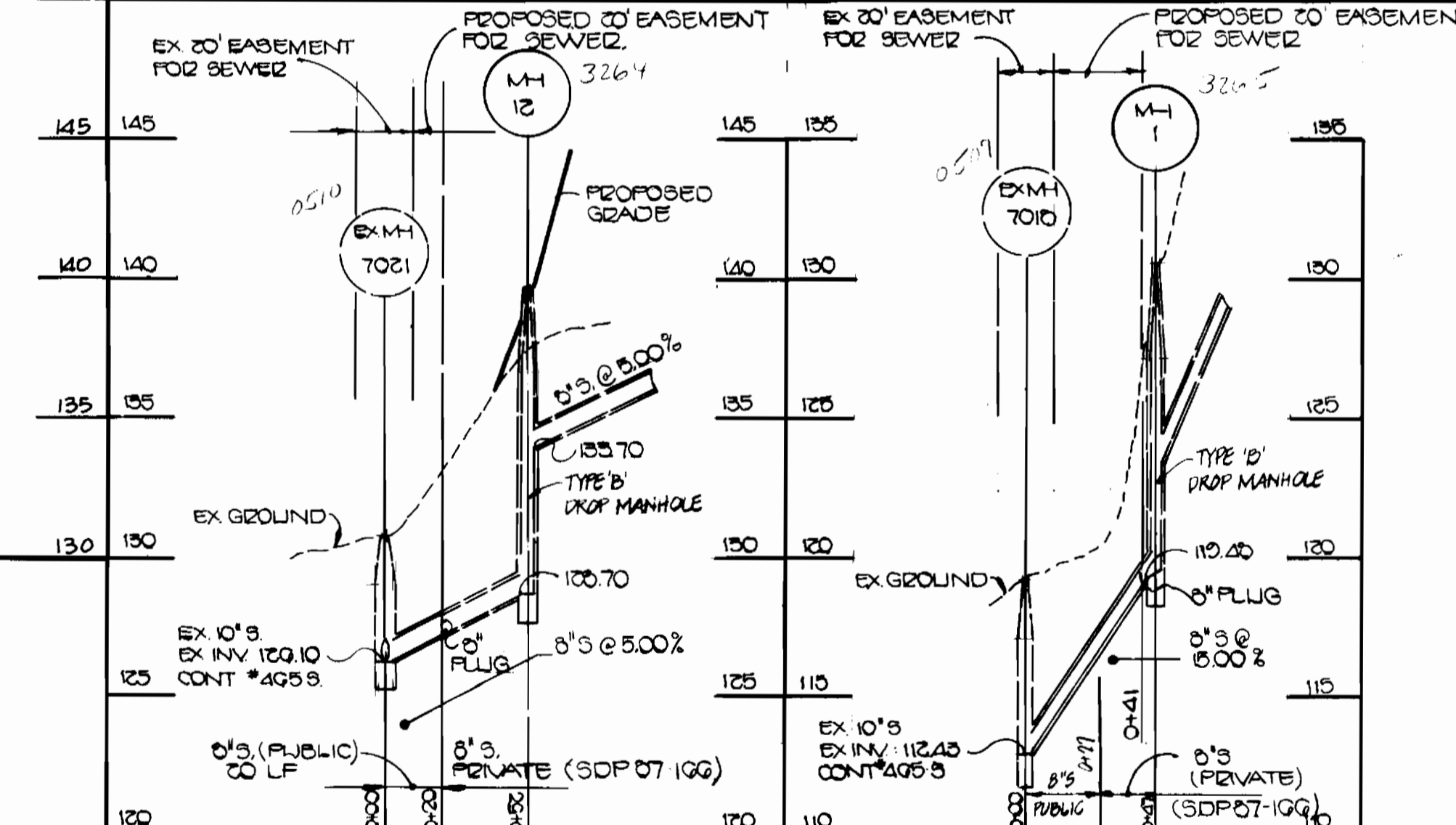
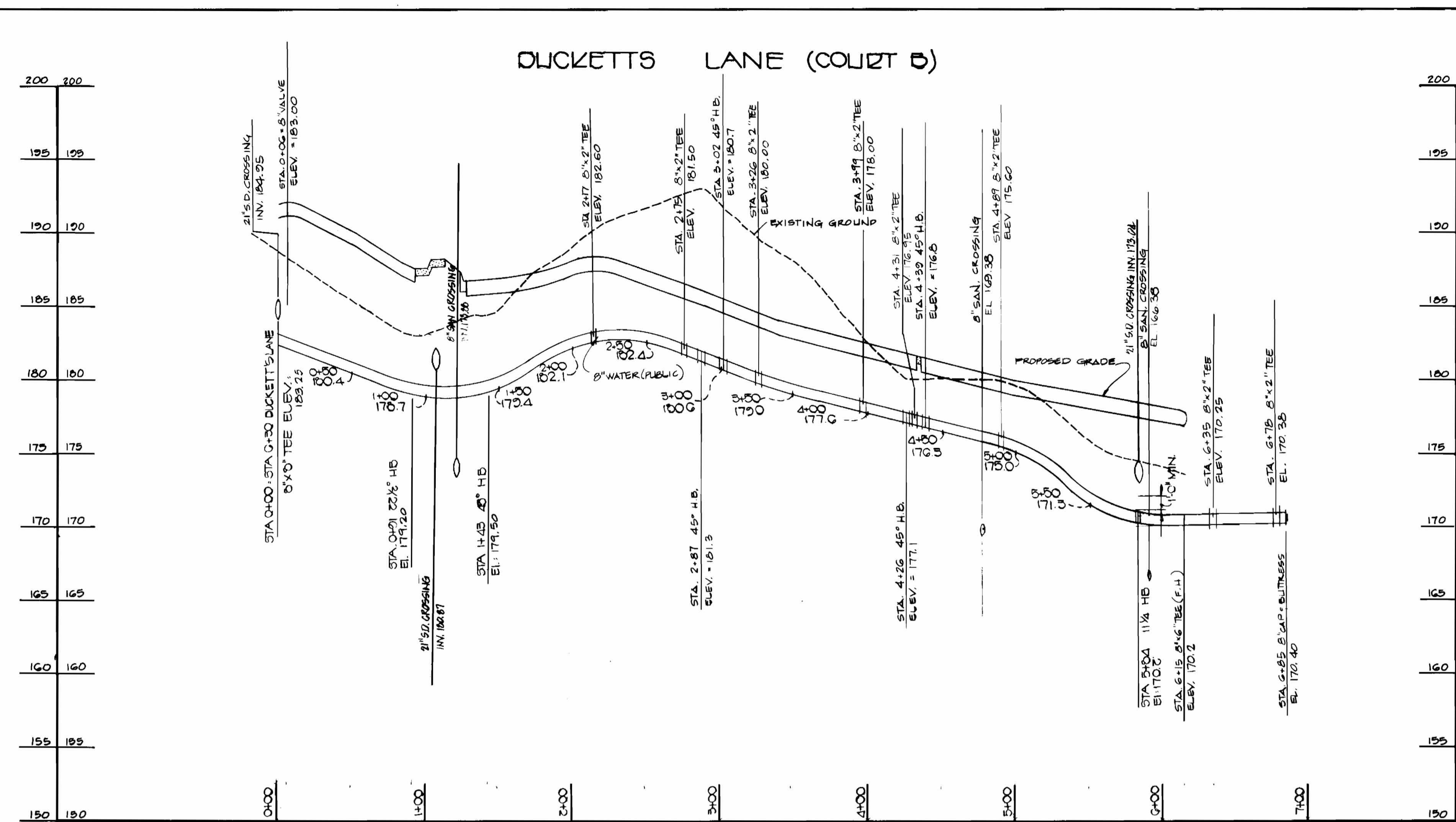
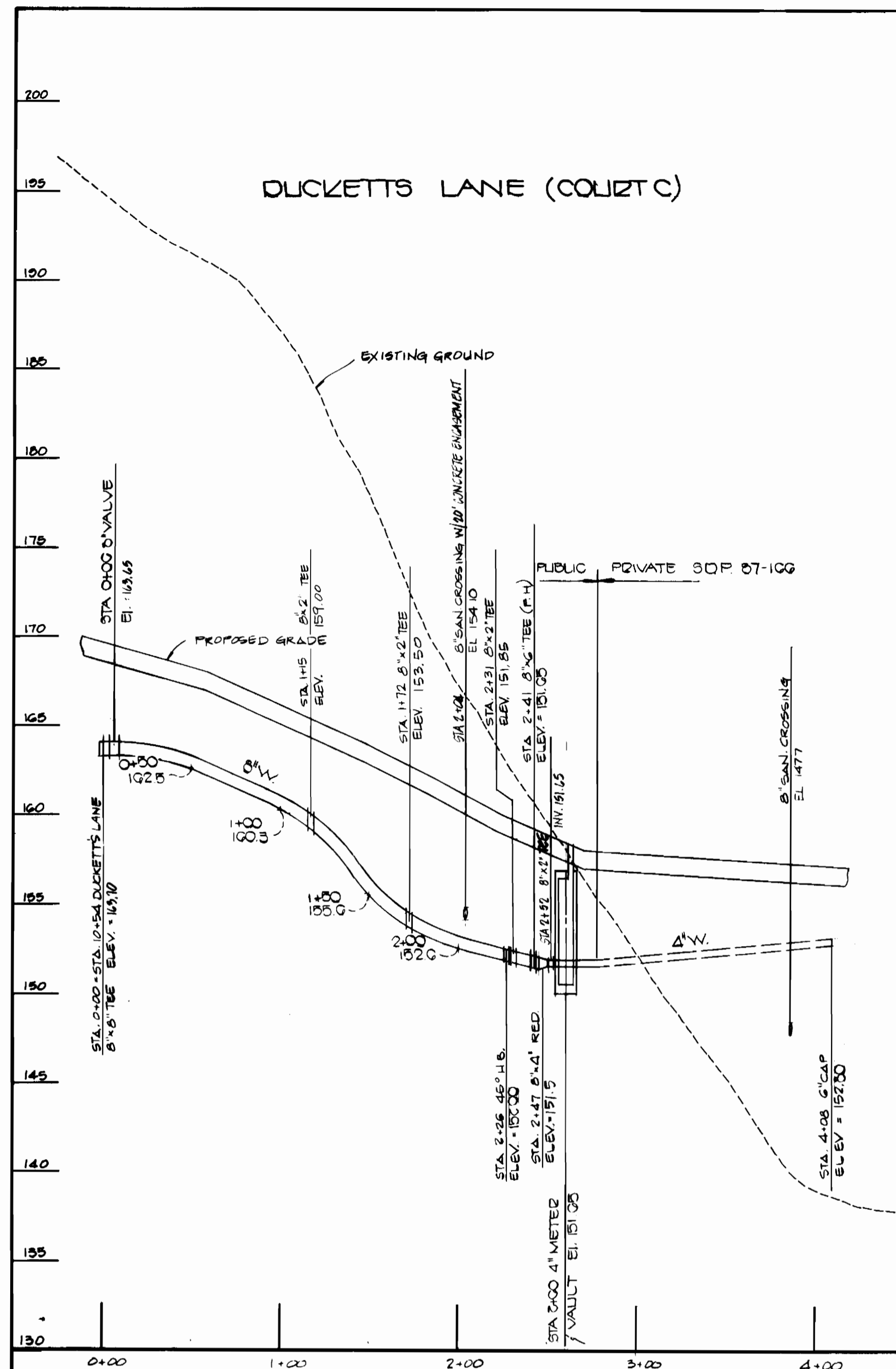
PROFILES WATER MAINS
600' SCALE MAP NO. 37120 BLOCK NO. 10 E 13

PINE RIDGE
CONTRACT NO. 14-1572-0
1ST ELECTION DISTRICT
HOWARD COUNTY, MD.

SCALE AS SHOWN
SHEET 3 OF 4

BRUNING 44-132 (8/15)

10/20



PROFILES
 SCALE: HOR: 1" = 50'
 VERT: 1" = 5'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Gregory J. Nemy
 DIRECTOR OF PUBLIC WORKS
 DATE: 6-16-07

Roman J. Slaw
 CHIEF, BUREAU OF ENGINEERING
 DATE: 6/15/07

Michael J. ...
 CHIEF, BUREAU OF UTILITIES
 DATE: 6/15/07

...
 CHIEF, LAND DEVELOPMENT DIVISION
 DATE: ...

DEWBERRY & DAVIS
 ARCHITECTS ENGINEERS PLANNERS SURVEYORS

1000 N. RIDGE ROAD
 SUITE 100
 BELLGATE CITY, MARYLAND 21043

(301) 461-7470 BALTIMORE
 (301) 621-4070 WASHINGTON

DES: J.F.H.	
DRN: J.A.U.	
CHK: B.D.B.	
DATE: 5/12/07	
BY: DP	REVISOR: REVISED WATER CROSSINGS
NO. 1	DATE: 7-23-07
	REVISIONS

PROFILES
 WATER & SEWER MAINS

600' SCALE MAP NO. 57420 BLOCK NO. 15 & 16

PINE RIDGE
 CONTRACT NO. 14-1512-D
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 4 OF 4

CONTRACT NO. 14-1512-D
 PINE RIDGE
 WATER & SEWER EXTENSION
 HOWARD COUNTY, MARYLAND

AS-BUILT 10/20