

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

Darryl J. Beckner 12-15-80
SIGNATURE DATE
US SOIL CONSERVATION SERVICE

This Development Plan is approved for soil Erosion and Sediment Control by the Howard County Conservation District.

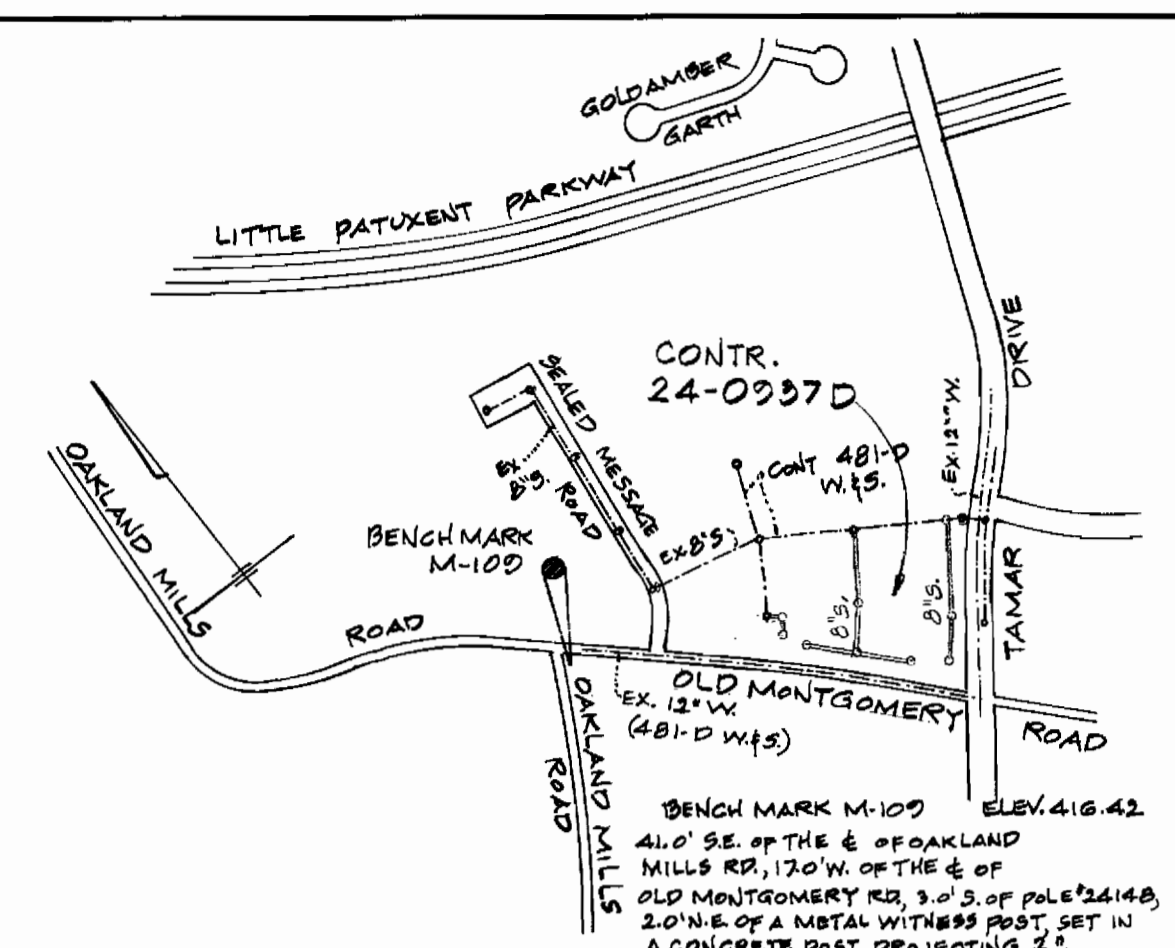
APPROVED: *William T. Rowe* 12-15-80
HOWARD S.C.D. DATE

Sediment Control Measures for this Contract will be implemented in accordance with Section 14 of the Specifications and Road Construction Plan F-80-89 and sdp-61-32.

QUANTITIES (Phase I)

ITEMS	QTY	AS BUILT *	MATERIAL/SUPPLIER
8" SEWER	1268 L.F.	812 L.F.	LOGAN
8" WATER	462 L.F.	296 L.F.	A.P.
6" WATER	1041 L.F.	559 L.F.	A.P.
6" F.H.	3	2	A.P.
MANHOLES	54 L.F.	32 L.F.	LOGAN
8" VALVES	2	2	A.P.
8" 1/2" Ø	1	1	A.P.
6" 1/2" Ø	2	0	A.P.
6" 1/8" Ø	0	5	A.P.
6" Valves	3	3+2@Blowoffs	A.P.
6" San.		549 LF	

VILLAGE OF LONG REACH
SECTION 1 AREA G
P.B. 23, FOLIO 10



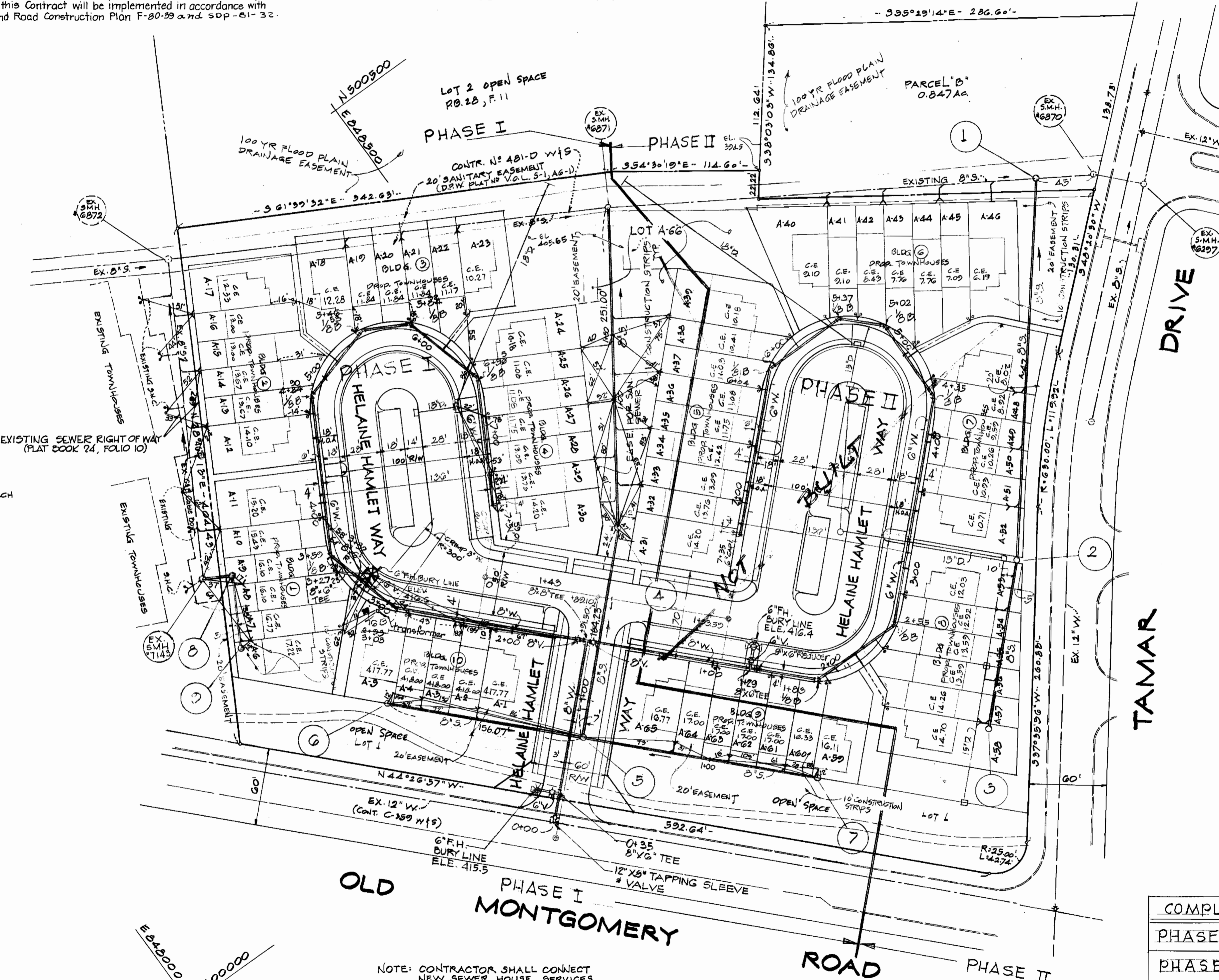
VICINITY MAP
SCALE: 1" = 600'

Waste Water Disposal: Sewage
Type of buildings: Townhouses (65)
No. of S.H.C. - 7 single, 29 TW (405 L.F. G)
No. of W.H.C. - 3 single, 30 TW (273 L.F.)

WATER & SEWER CODE
County Use
Water: E04
Sewer: 5334 900

GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS & SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN VICINITY OF UTILITIES.
- FOR ALL STANDARD DETAILS SEE STANDARDS BOUND IN SPECIFICATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6" CLEAR ALL POLES BY 2'-0" MIN. OR TUNNEL AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER.
- ALL WATER MAINS TO HAVE A MINIMUM OF 3/8" COVER UNLESS OTHERWISE NOTED.
- BLOCK ALL FITTINGS WITH CONCRETE; SEE STDS BOUND IN SPECIFICATIONS.
- CONTRACTOR SHALL LOCATE EXISTING UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES.
- PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH M.S.H.A. MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
- ALL HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON MARYLAND STATE DATUM.
- ALL SINGLE WATER SERVICES TO BE 1/2" TWJ WATER SERVICES TO BE 1".
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST 5 DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
BALTIMORE GAS & ELECTRIC COMPANY 685-0123
UNDERGROUND ELECTRIC 992-2366
BUREAU OF UTILITIES, HOWARD COUNTY 303-3648
MISO UTILITY
CHESAPEAKE & POTOMAC TELEPHONE CO. 301-393-3553
AMERICAN TELEPHONE & TELEGRAPH, CABLE LOCATION DIV.: 301-393-3553
COLONIAL PIPELINE CO.: 781-4641
- ALL WATER MAINS TO BE C.I.P. OR D.I.P.
- ALL SEWER MAINS SHALL BE C.S.P.X., V.C.P.X., OR A.C.P., CLASS 2400 UNLESS OTHERWISE NOTED.
- ALL WATER HOUSE CONNECTIONS TO BE INSIDE WATER SETTINGS.
- BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO ELEVATIONS SHOWN. ALL FIRE HYDRANTS SHALL BE STRAPPED & BUTTRESSED WITH CONCRETE. SOIL AROUND THE HYDRANTS SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 5-15 OF STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAINS VALVES ON EXISTING SYSTEM.



COMPLETION DATES

PHASE I	_____
PHASE II	_____

NOTE: CONTRACTOR SHALL CONNECT NEW SEWER HOUSE SERVICES TO EXISTING SEWER LINES WITH 8" x 6" SADDLES.

AT THE VARIOUS WATER MAIN BENDS THE CONTRACTOR SHALL INSTALL ALL PIPE & BUTTRESSES WITHIN 136' AREA SHOWN.
CONSTRUCTION STRIPS ARE APPLICABLE FOR UTILITY CONSTRUCTION ONLY.

PLAN

SCALE: 1" = 30'

7-13-81	DIVIDE INTO PHASES	RGB
DATE	REVISION	BY

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
James L. O'Neil 12/17/80
CHIEF-BUREAU OF UTILITIES-DATE
William T. Rowe 12-18-80
CHIEF BUREAU OF ENGINEERING-DATE

KIDDE CONSULTANTS, INC.
ENGINEERS
1020 CROMWELL BRIDGE ROAD
BALTIMORE, MARYLAND 21204

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
William T. Rowe 12-18-80
CHIEF, LAND DEVELOPMENT DIVISION DATE
John F. Newman 12-18-80
DIRECTOR OF PUBLIC WORKS DATE

CONTRACT NO: 24-0937-D

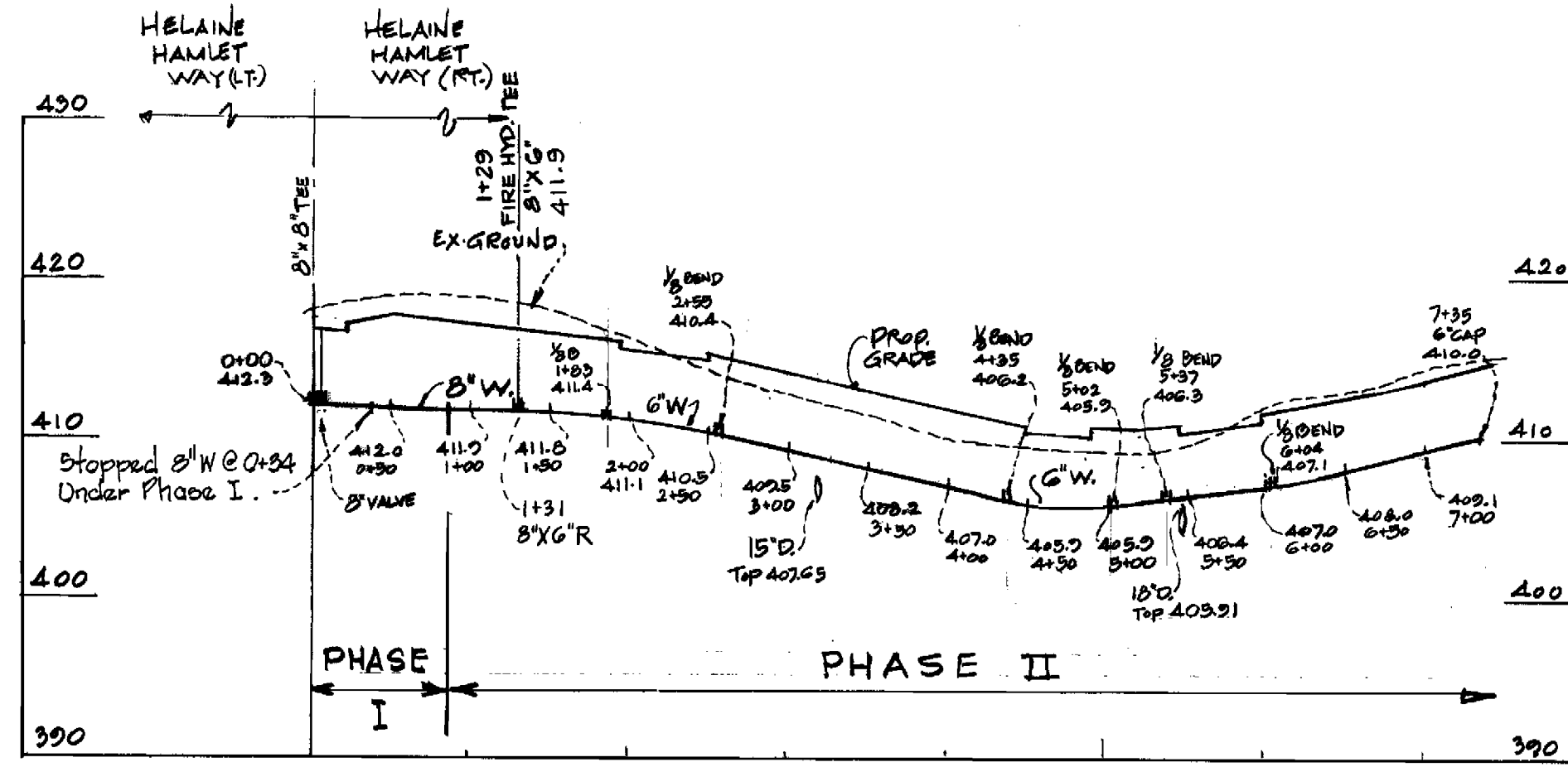
PLAN OF
WATER & SEWER MAINS

COLUMBIA
VILLAGE OF LONGREACH
ELECTION DISTRICT GUILFORD NO 6

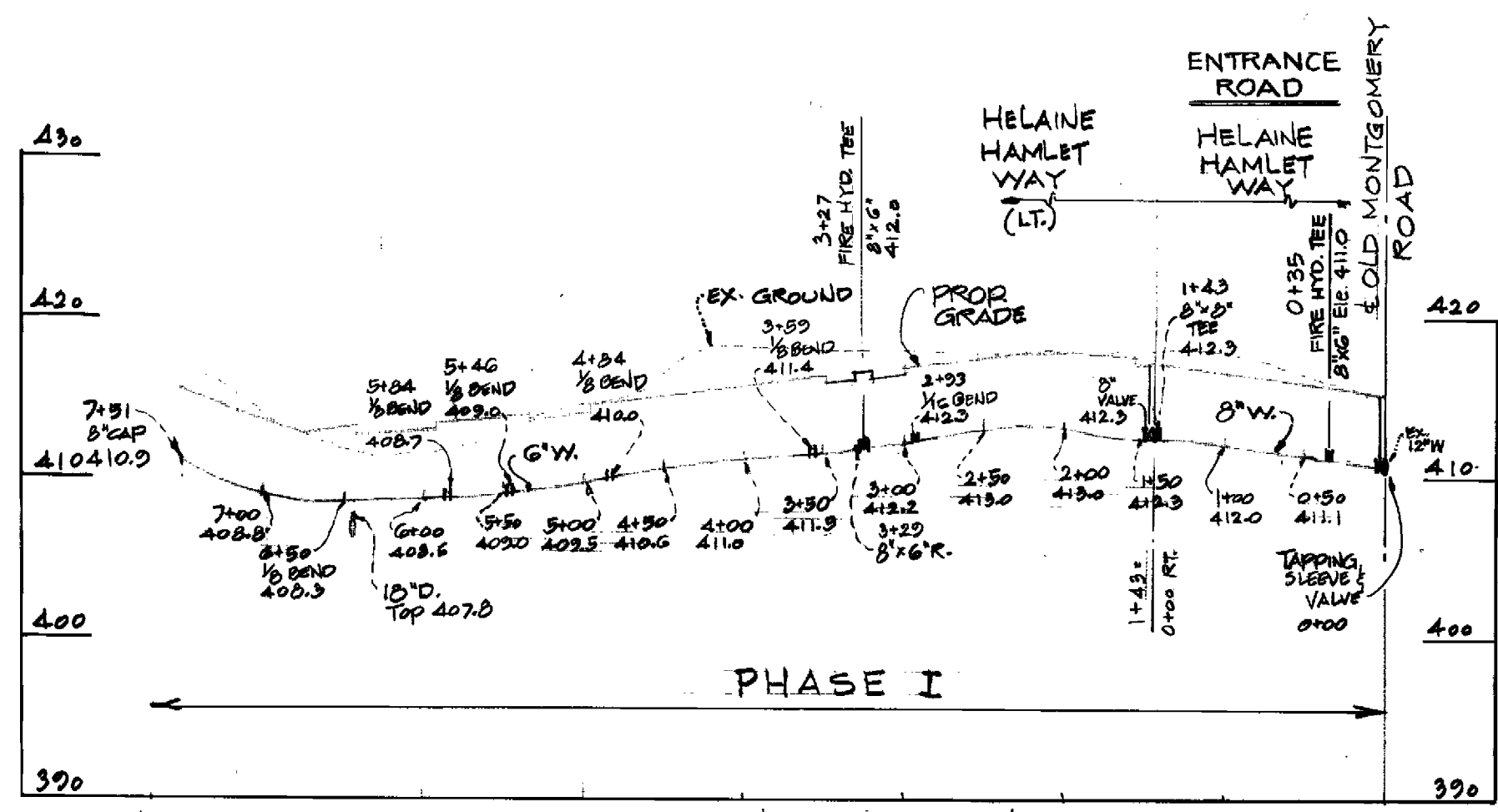
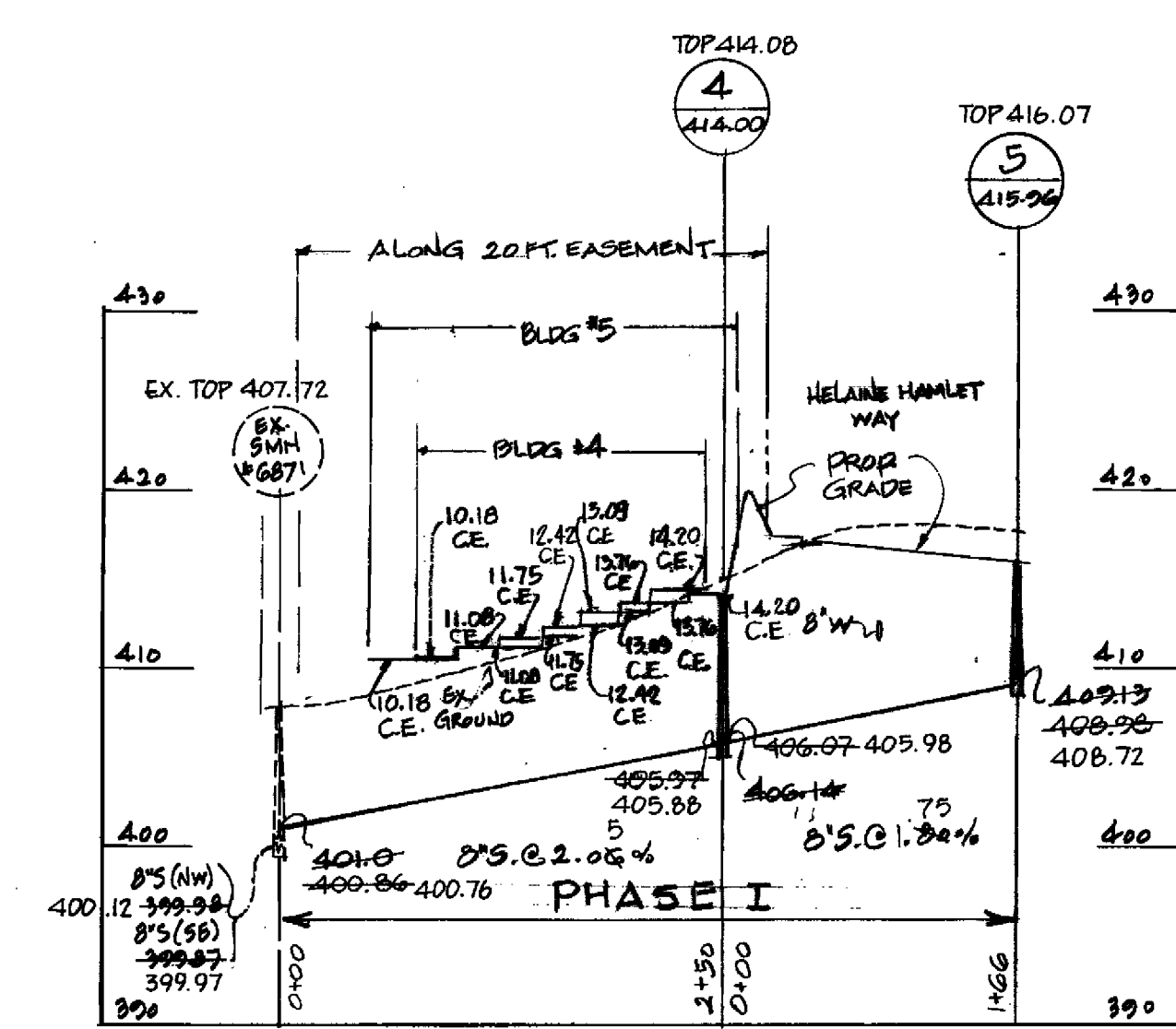
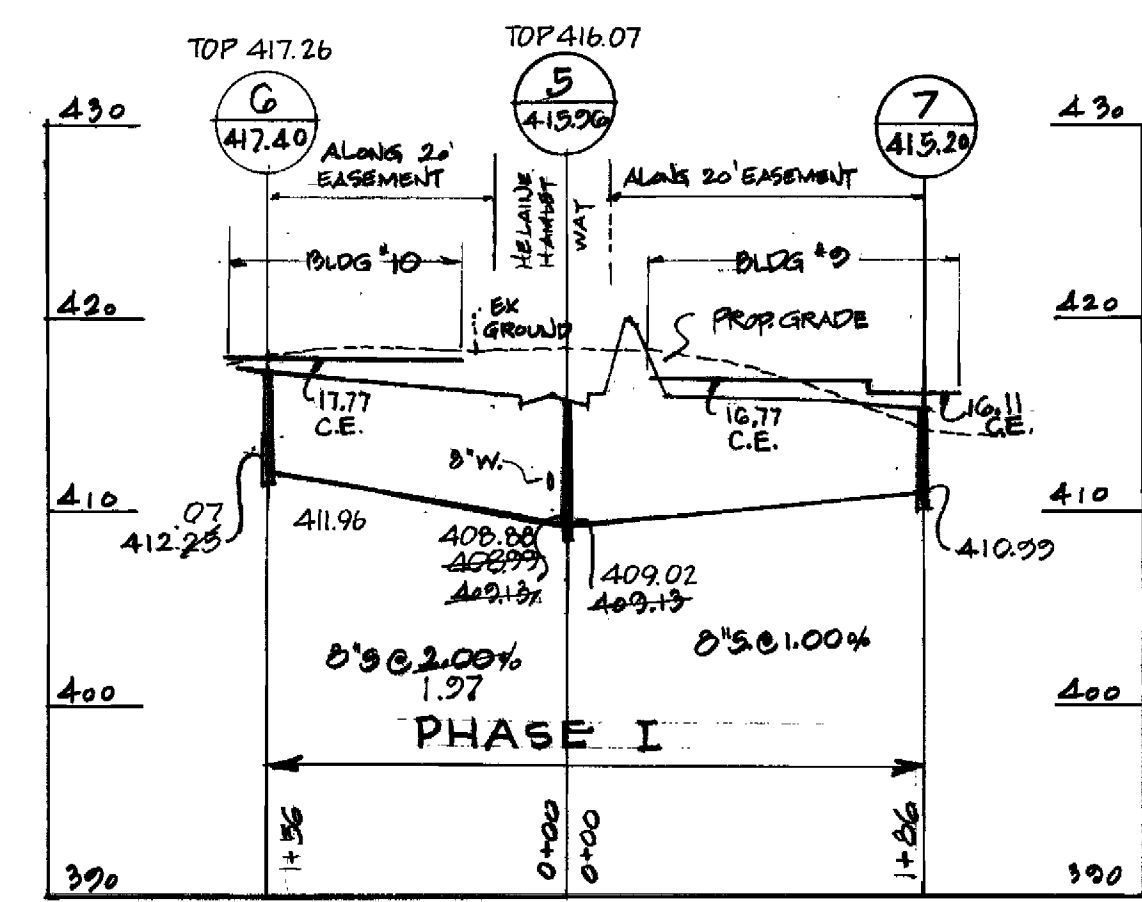
DRAWING NO 1 OF 2 SCALE AS SHOWN
AS BUILT JULY, 1984



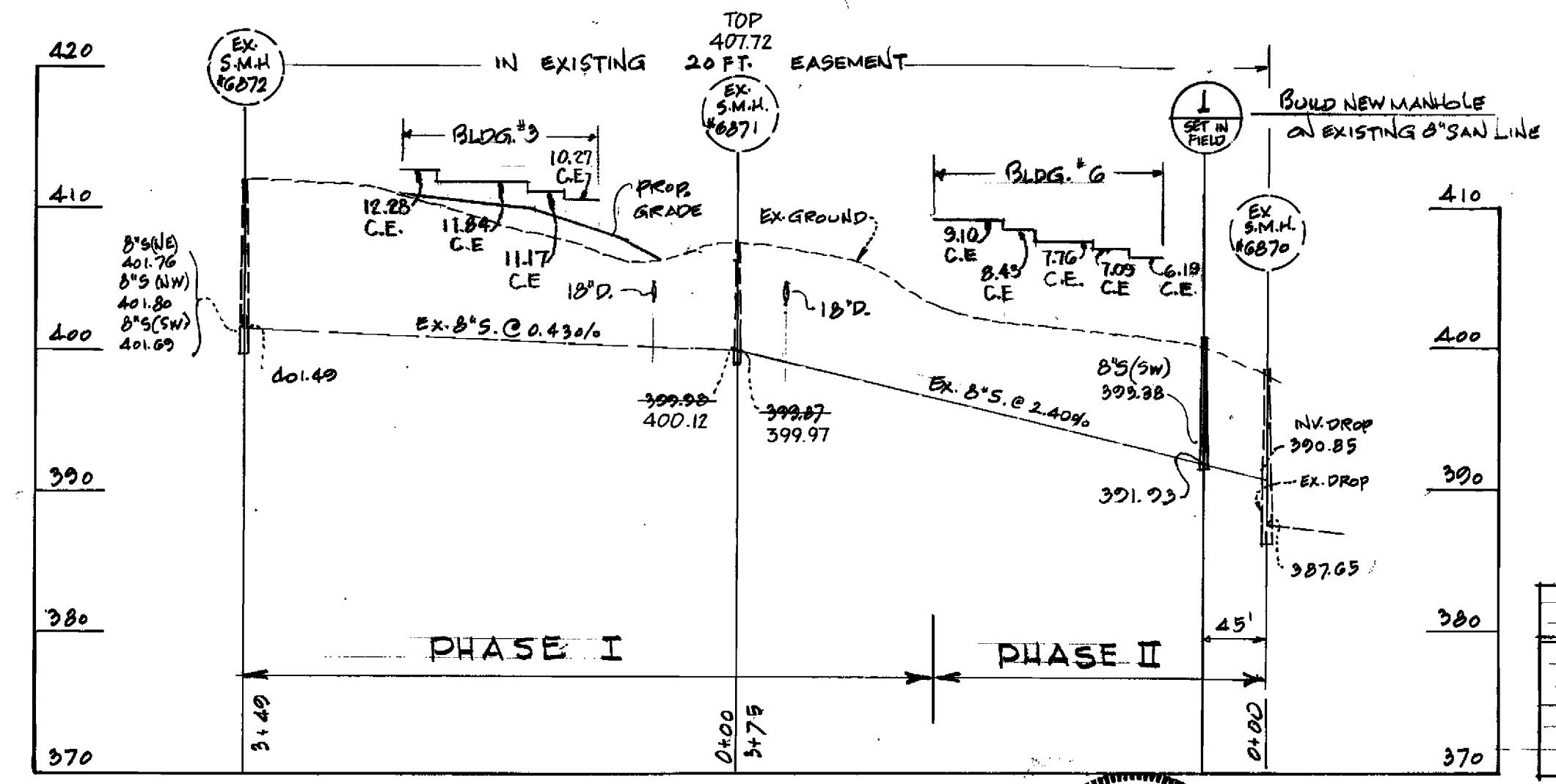
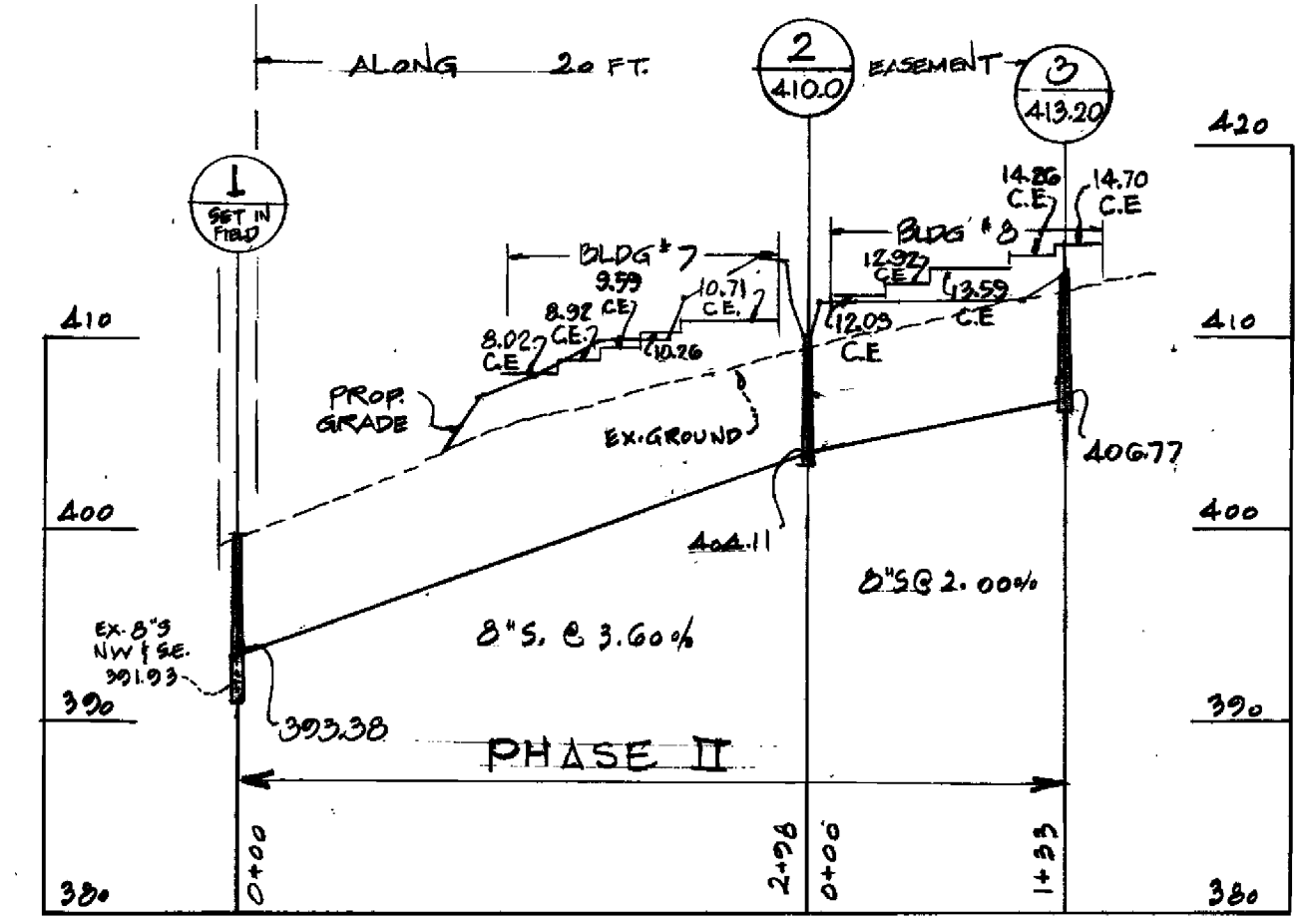
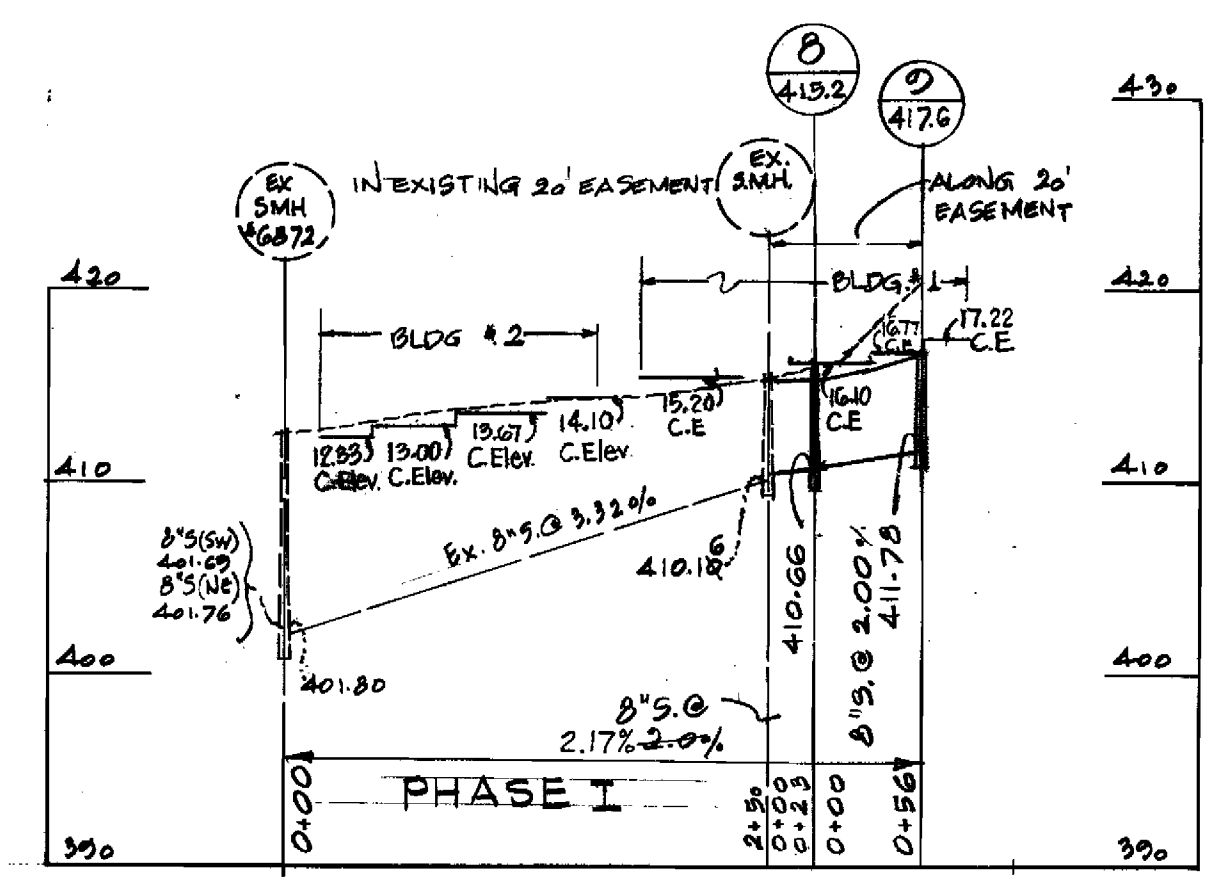
LOTS 1-65
VILLAGE OF LONG REACH
SECTION 1, AREA G, PARCEL B'S
SECTION 1, AREA 9,
RESUBDIVISION OF PARCEL A'
COLUMBIA
Contract No. 24-0937-D
VP 81-37
E 81-21 C



8" x 8" WATER MAIN
HELAIN HAMLET WAY (RT)



8" x 8" WATER MAIN
HELAIN HAMLET WAY (LT)



COMPLETION DATES	
PHASE I	_____
PHASE II	_____

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
James J. Glavin 12/7/80
CHIEF-BUREAU OF UTILITIES-DATE
KIDDE CONSULTANTS, INC.
ENGINEERS
1020 CROMWELL BRIDGE ROAD
BALTIMORE, MARYLAND 21204

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
12/18/80
CHIEF LAND DEVELOPMENT DIVISION-DATE
F. N. Nunnally 12-18-80
DIRECTOR OF PUBLIC WORKS-DATE

SANITARY SEWER & WATER
PROFILES
SCALE: 1" = 100' HOR.
1" = 10' VERT.
CONTRACT No. 24-0937-D

7.13.81	DIVIDE INTO PHASES	RGB
DATE	REVISION	BY

PROFILES OF
WATER & SEWER MAINS

AS-BUILT 10-31-84
STATE OF MARYLAND
COLUMBIA
ELECTION DISTRICT GUILFORD No 6

Lots 1-65.
VILLAGE OF LONG REACH
SECTION I, AREA G, PARCEL 8
SECTION I, AREA 9
RESUBDIVISION OF PARCEL "A"
COLUMBIA
Contract No. 24-0937-D
Vp 81-37
F 81-21 c
DRAWING No 2 OF 2
SCALE AS SHOWN
AS BUILT JULY, 1984