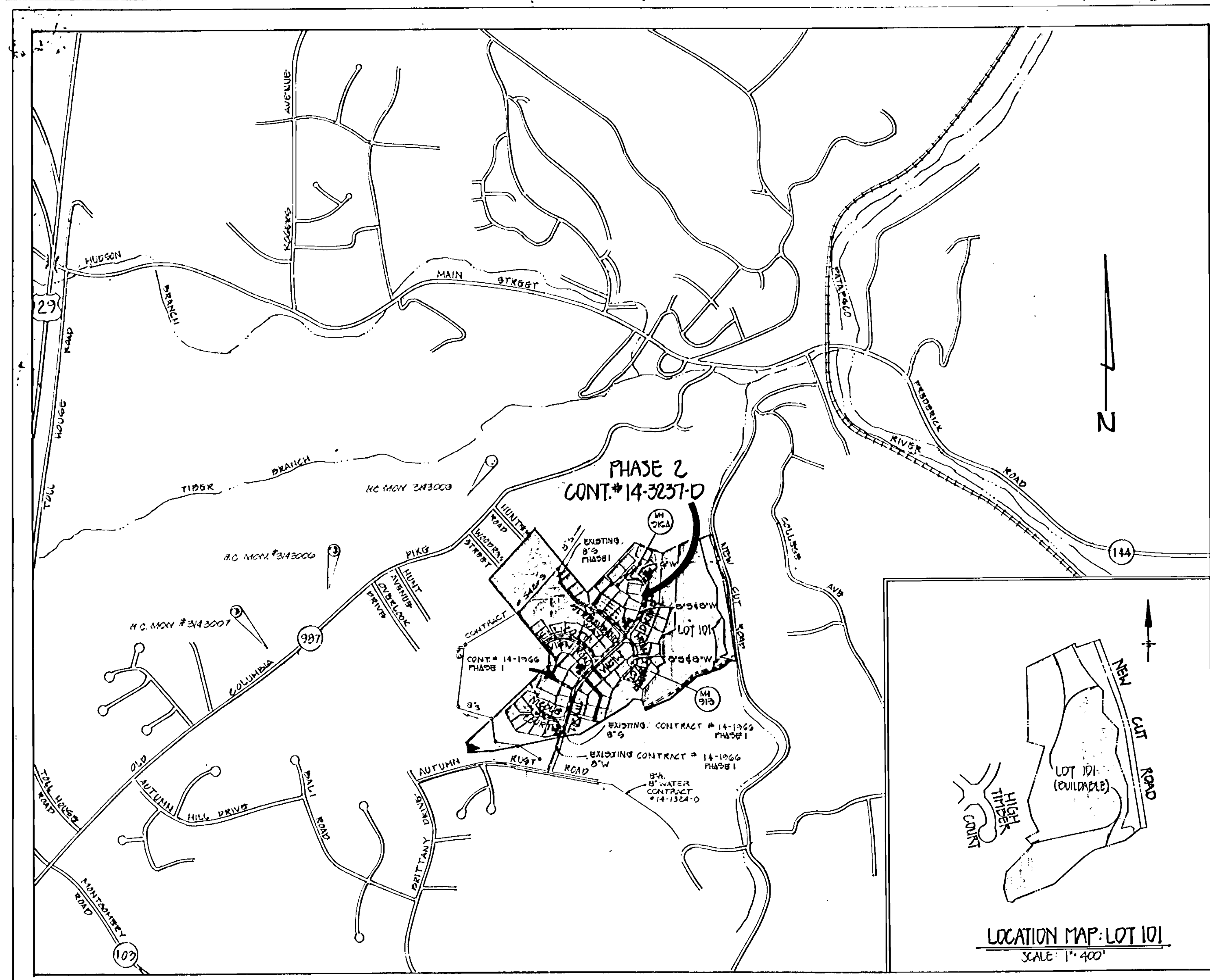


NAME OF UTILITY CONTRACTOR: COSENTINO 4-12-93

QUANTITIES				
ITEM	EST'D	AS-BUILT	TYPE	SUPPLIER
8" WATER	608 LF	586.4	CLER	GRIFFIN PIPE
2" WATER	103 LF	28.0	COVER	CAMERIDE LEG
3/4" W.H.C.	437 LF	505.4	"	"
1" W.H.C.	714 LF	523.8	"	"
FIRE HYDRANTS	1 EACH	1.0		MUELLER CO
8" SEWER	113 LF	1181.6	PVC	J-M MFG. CO
8" SEWER (D.I.P)	112 LF		CLER	GRIFFIN PIPE
MANHOLES	12	11.0	CONC	ARANTK.COM
2" VALVES	1 EACH	1.0		MUELLER CO
8" F.H. VALVES	1 EACH	1.0		"
4" SHC	1444 LF	1,501	PVC	J-M MFG. CO
6" WATER	302 LF	351.96	CLER	GRIFFIN PIPE
1 1/2" WATER	429 LF	466.0	COVER	CAMERIDE LEG
Outside Meter Vault	1 EACH			

BENCHMARKS			
MONUMENTS	DESCRIPTION	COORDINATES	ELEVATIONS
3142003	74" REBAR 0.5' BELOW SURFACE ON SLOPE 26.5' x 9' OF ROAD	N 921552.582 E 856084.943	255.280
3142006	MON. @ SURFACE, 20.5' N OF E OF OLD COLUMBIA PIKE & 128' E OF E OF OVERLOOK DR	N 920552.384 E 854021.390	258.593
3142007	19" REBAR 0.5' BELOW SURFACE BELOW COLUMBIA PIKE, 0.5' BELOW SURFACE	N 920192.273 E 853529.284	283.192



- 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. ANY COST INCURRED TO THE CONTRACTOR FOR TUNNELING OR BRACING AT POLES SHALL BE INCLUDED IN UNIT PRICES BID FOR CONSTRUCTION OF THE MAIN.
 - FOR DETAILS NOT SHOWN ON THE DRAWINGS USE HOWARD COUNTY STANDARD DETAILS.
 - FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY STANDARD SPECIFICATIONS.
 - CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES AT HIS OWN EXPENSE.
 - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
 - STATE HIGHWAY ADMINISTRATION 531-5533
 - BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION CUSTOMER SERVICE 685-0123
 - BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND GAS DISTRIBUTION CUSTOMER SERVICE 685-0123
 - ENGINEERING - "DAMAGE CONTROL" 234-5611
 - "MISS UTILITY" 1-559-0100
 - CHESAPEAKE & POTOMAC (CAP) TELEPHONE COMPANY 725-9976
 - AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIVISION 393-3533
 - COLONIAL PIPELINE COMPANY 795-1390
 - BUREAU OF UTILITIES HOWARD COUNTY 515-4900
 - 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.
 - ALL WATER MAINS TO BE DUCTILE IRON CLASS 52 ONLY.
 - TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 1-1/2' COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
 - BLOCK ALL FITTINGS WITH CONCRETE.
 - VERTICAL ELEVATIONS ON ALL FIRE HYDRANTS SHALL BE SET TO THE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE SET-ASSEMBLED AND BUSHED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAIL WITH SHIP WELLS. SOIL AROUND THE FIRE HYDRANT TO BE COMPACTED IN ACCORDANCE WITH SECTIONS 1000 & 1003 OF THE STANDARD SPECIFICATIONS.
 - ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING.
 - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
 - ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., OR PVC 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.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS, STANDARD DETAIL G.3.52. WHERE WATER-TIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE, STANDARD DETAIL G.6.41.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
 - ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION, C-153 DUCTILE IRON COMPACT FITTINGS, 3 INCH THROUGH 12 INCH WATER AND OTHER LIQUIDS.
 - FOR TOWNHOUSE UNITS (LOTS 73 THROUGH 82) ALL SINGLE WHC'S SHALL BE 1". ALL TWIN WHC'S SHALL BE 1 1/2" INLET & 1" OUTLETS ALL TOWNHOUSE UNITS SHALL HAVE A 1/4" METER SETTING.

CAPLAN'S PROPERTY - PHASE 2

CONTRACT NO. 14-3237-D

WATER AND SEWER PLANS

2ND ELECTION DISTRICT,

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

PLAN REFERENCE NUMBER
P-90-158

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN P-90-158

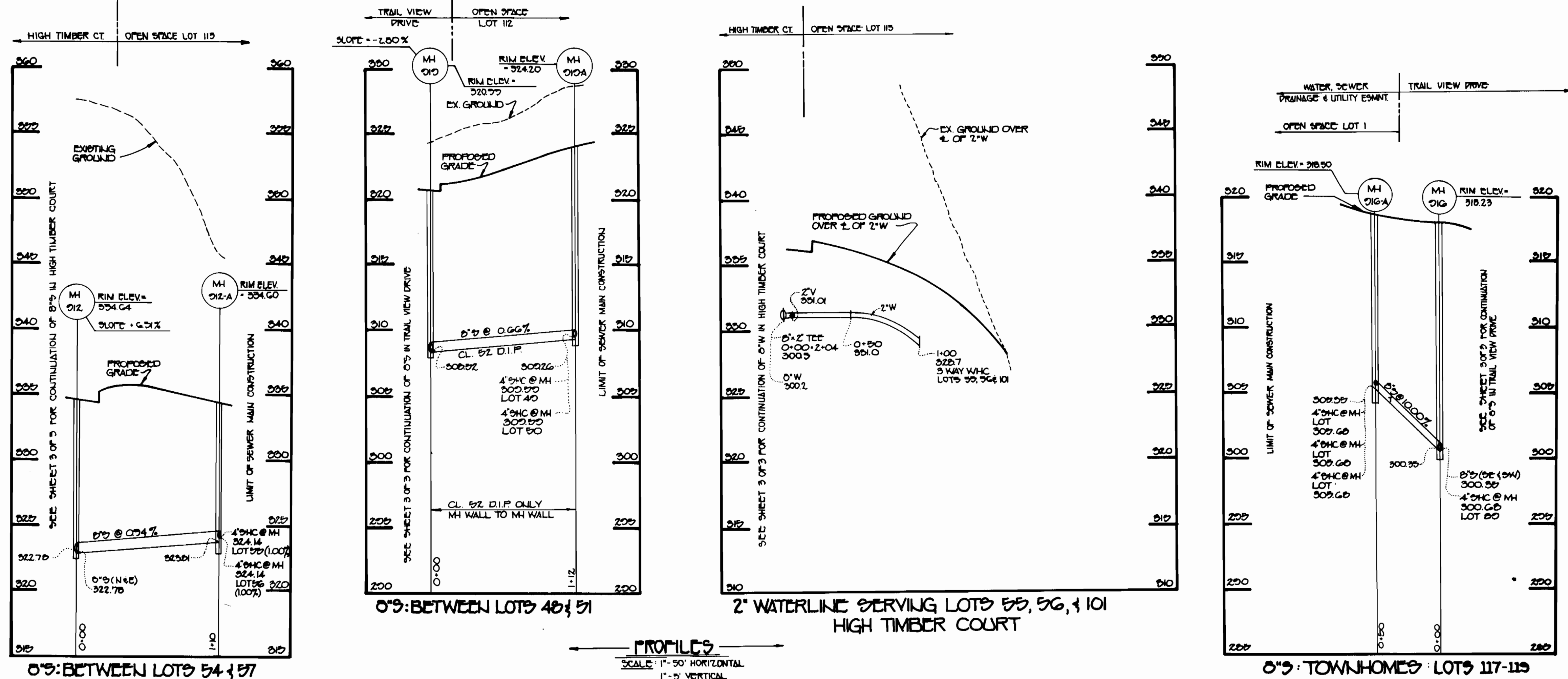
THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD COUNTY SOIL CONSERVATION DISTRICT

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
Juan M. Helms 10/25/92
 U.S. SOIL CONSERVATION SERVICE DATE

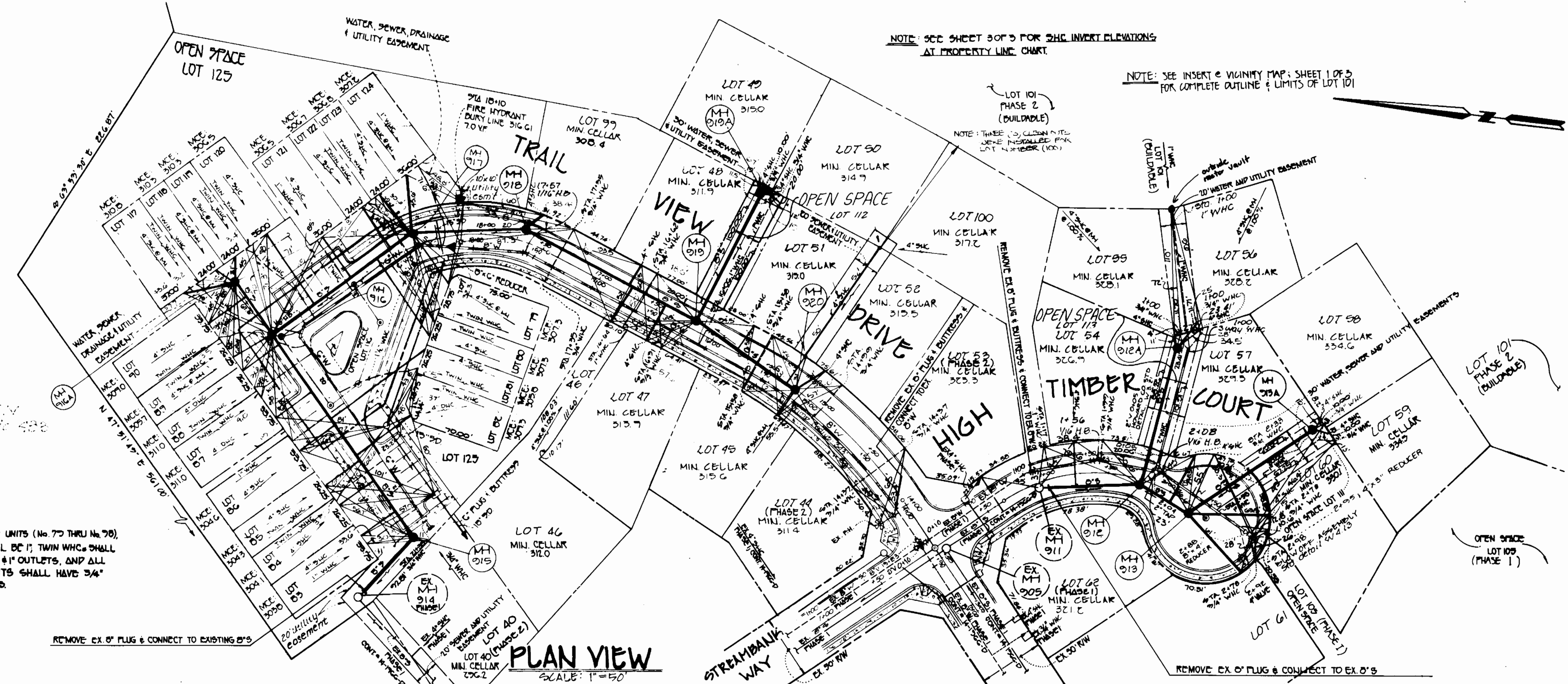
APPROVED:
John R. Robertson 10/25/92
 HOWARD SOIL CONSERVATION DISTRICT DATE

CONTRACT NO. 14-3237-D
 CAPLAN'S PROPERTY - PHASE 2
 2ND. ELECTION DISTRICT
 WATER AND SEWER PLANS

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Juan M. Helms</i> 10/27/92 DIRECTOR OF PUBLIC WORKS DATE <i>Robert R. Berman</i> 10-22-92 CHIEF, BUREAU OF UTILITIES DATE	FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS SUITE 100, 3171 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2855 TERRELL A. FISHER	DES: P.W.K. DRN: J.C.S. CHK: P.W.K. DATE: 10/92 BY NO. _____ REVISION _____ DATE _____	OWNER/DEVELOPER PULTE HOME CORPORATION 1501 SOUTH EDGEWOOD STREET SUITE K BALTIMORE, MARYLAND 21227	TITLE SHEET CAPLAN'S PROPERTY - PHASE 2 CONTRACT 14-3237-D TAX MAPS 25 PARCELS 38 & 82 & PO 278 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 OF 3
--	---	--	---	--	--------------------------------------



PROFILES
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



PLAN VIEW
SCALE: 1"=50'

NOTE: FOR ALL TOWNHOUSE UNITS (No. 75 THRU No. 78), SINGLE WHCs SHALL BE 12" TWIN WHCs SHALL HAVE 1 1/2" INLETS & 1" OUTLETS, AND ALL TOWNHOUSE UNITS SHALL HAVE 3/4" METER SETTINGS.

NOTE: SEE SHEET 307'S FOR 2"HC INVERT ELEVATIONS AT PROPERTY LINE CHART.

NOTE: SEE INSERT & VICINITY MAP SHEET 1 OF 3 FOR COMPLETE OUTLINE & LIMITS OF LOT 101.

N 571,000
E 856,500

N 571,000
E 856,250

N 570,000
E 856,500

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
James P. Shinn 10-27-92
DIRECTOR OF PUBLIC WORKS DATE
Robert W. Benning 10-27-92
CHIEF, BUREAU OF UTILITIES DATE

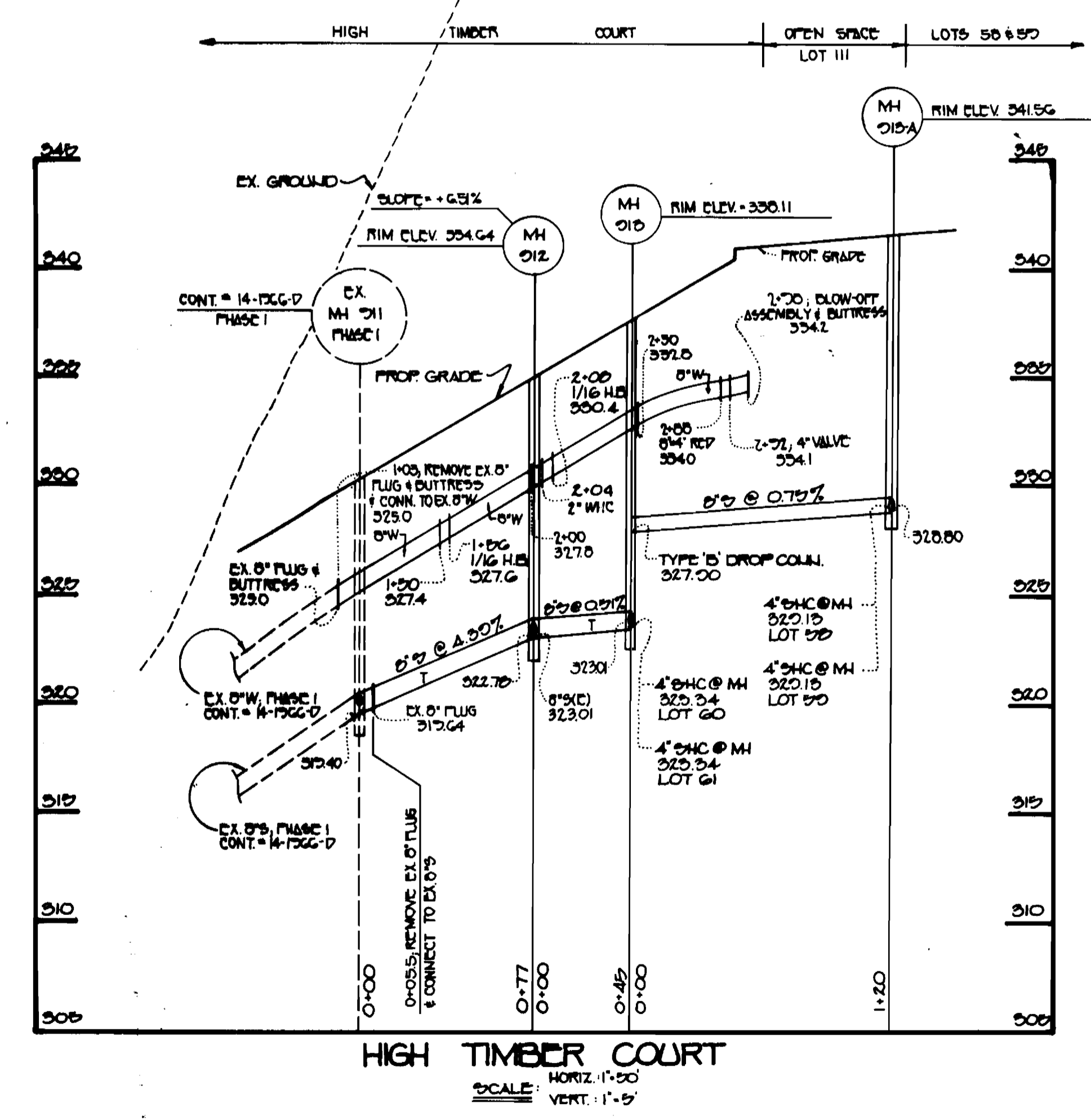
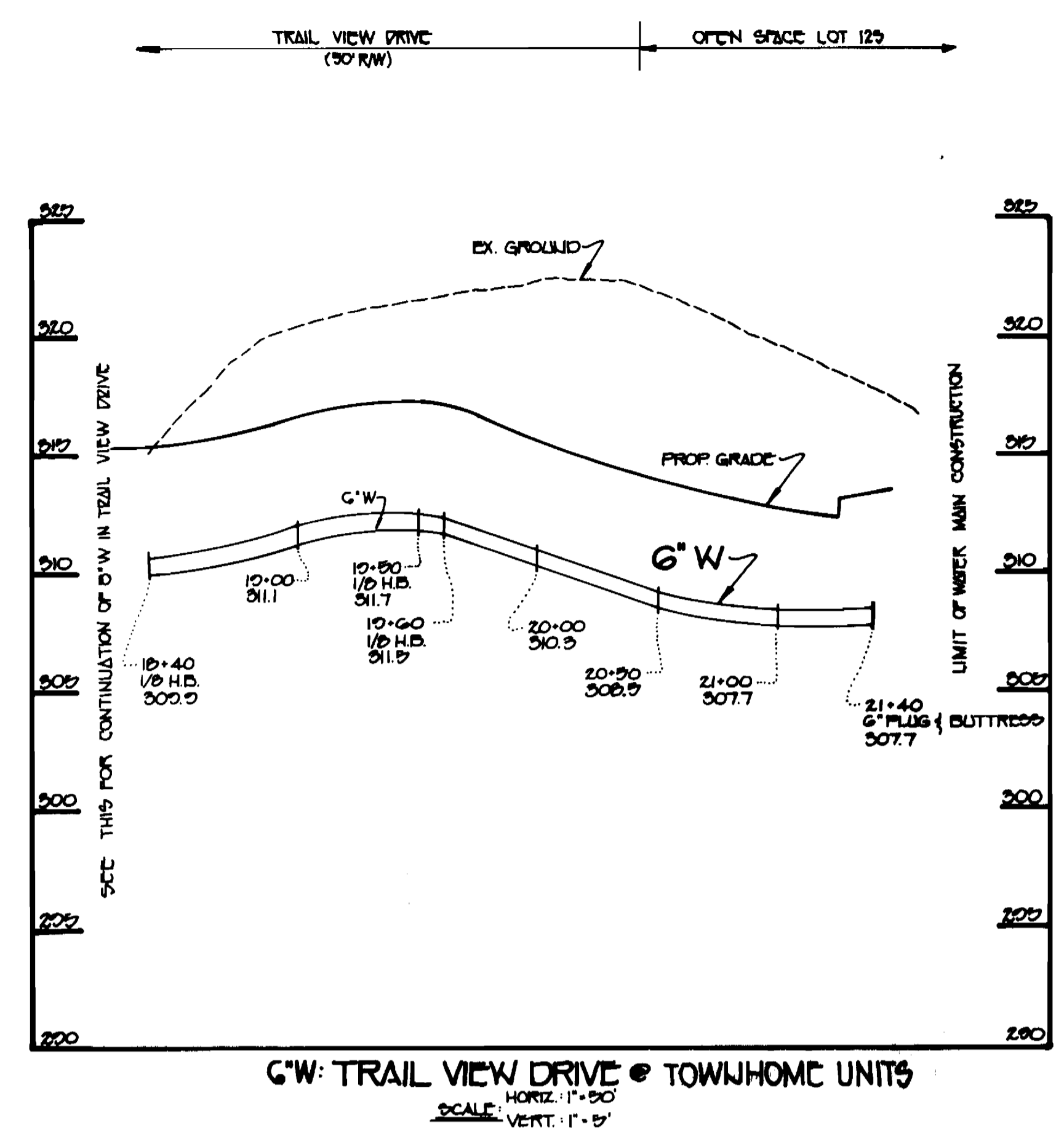
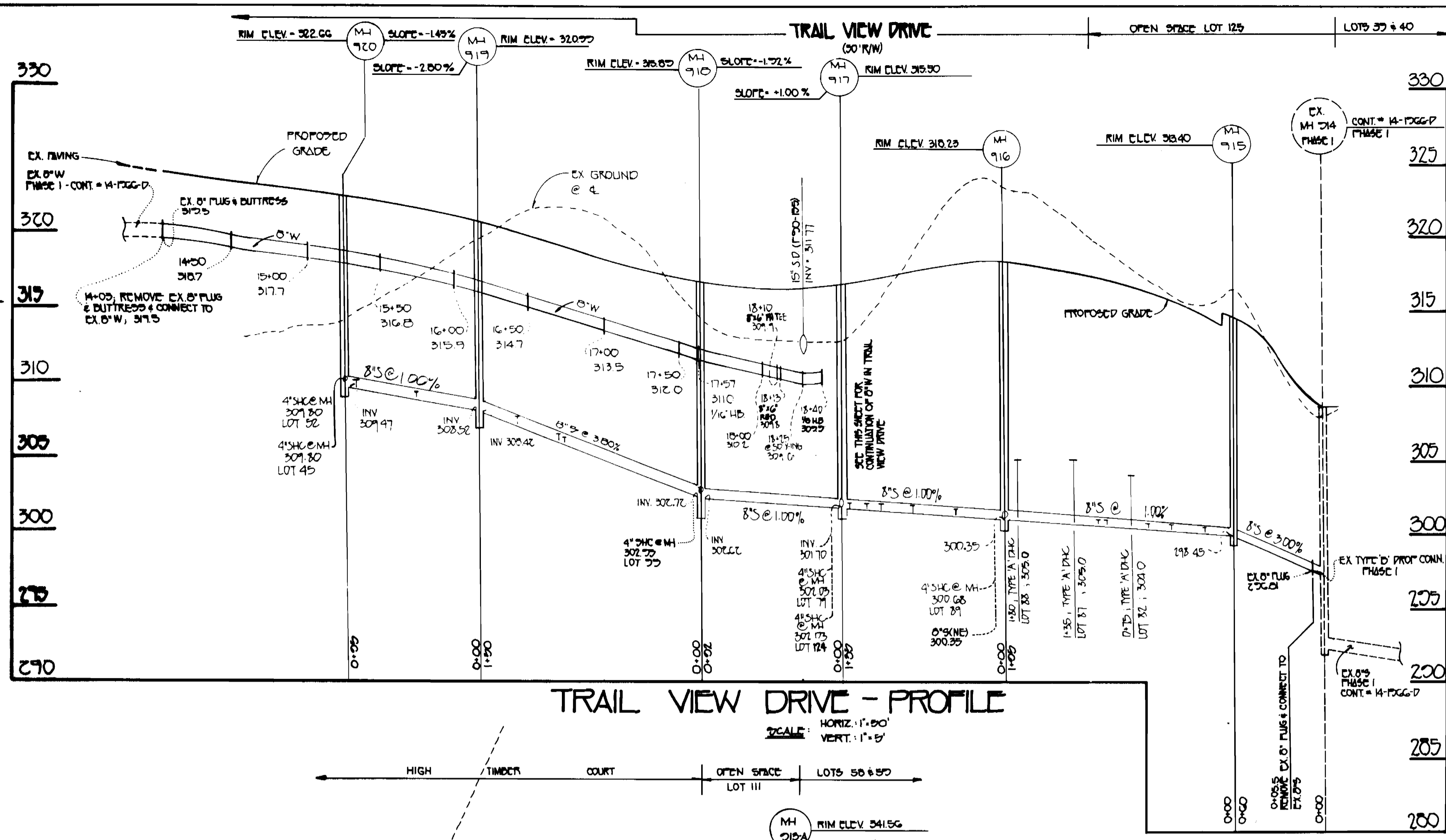
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
SUITE 100, 8171 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 481-2888
TERRELL A. FISHER

DES. P.W.K.	J.D.B.	1	Change Lot Numbers, Label Front Postage etc...	12/18/92
DRN. JCS				
CHK. P.W.K.				
DATE: 10/92	BY	NO.	REVISION	DATE

OWNER/DEVELOPER
PULTE HOME CORPORATION
1501 SOUTH EDGEWOOD STREET
SUITE K
BALTIMORE, MARYLAND 21227

WATER & SEWER PLAN/PROFILES
CAPLAN'S PROPERTY - PHASE 2
CONTRACT M-3257-D
TAX MAP: 25 PARCELS: 38 & 62 & PO 278
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 2 OF 3

CONTRACT NO. 14-3257-D
CAPLAN'S PROPERTY - PHASE 2
2ND ELECTION DISTRICT
WATER AND SEWER PLANS



SEE SHEET 2 FOR PLAN VIEW OF WATER & SEWER MAINS

SIC INVERT ELEVATIONS AT PROPERTY LINE		
STATION	LOT	ELEVATION
MH # 915	TO	MH # 916
0+22	35	329.54
0+50	34	329.82
0+70	35	300.02
0+75	32 DHC	305.02
1+05	36	300.57
1+10	31	301.52
1+35	37 DHC	305.70
1+80	38 DHC	305.70
@ MH # 916 LT	37	301.40
MH # 918	TO	MH # 919
@ MH # 918 LT	37	303.31
0+92	48	306.75
0+95	46 (100%)	306.83
1+24	47	308.24
MH # 919	TO	MH # 920
0+42	51	307.57
0+85	100	312.14
@ MH # 920 LT	52	310.34
@ MH # 920 RT	45	310.30

SIC INVERT ELEVATIONS AT PROPERTY LINE		
STATION	LOT	ELEVATION
MH # 911	TO	MH # 912
0+30	54	321.73
MH # 912	TO	MH # 913
0+27	57	324.15
MH # 913	TO	MH # 913A
@ MH # 913 RT	61	324.78
@ MH # 913 RT	60	324.84
@ MH # 913A LT	58	329.33
@ MH # 913A RT	59	329.33
MH # 912	TO	MH # 912A
@ MH # 912A LT	55 (LOOK)	324.22
@ MH # 912A RT	56 (LOOK)	324.37
MH # 916	TO	MH # 916A
0+35 RT	90	304.72
@ MH # 916A LT	117	306.54
@ MH # 916A LT	118	306.02
@ MH # 916A RT	119	306.06
MH # 916	TO	MH # 917
0+40	120	302.22
0+75	121	302.03
1+02	80	303.00
1+15	122	302.43
1+30	123	302.58
@ MH # 917 LT	124	302.93
@ MH # 917 RT	79	302.99
MH # 919	TO	MH # 919A
@ MH # 919 LT	49	309.73
@ MH # 919 RT	50	309.73

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James R. [Signature] 10/27/92
DIRECTOR OF PUBLIC WORKS DATE

John [Signature] 10/27/92
CHIEF, BUREAU OF UTILITIES DATE

John [Signature] 10/27/92
CHIEF, LAND DEVELOPMENT DIVISION DATE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS &
LAND SURVEYORS

SUITE 100, 8171 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 481-2855

TERRELL A. FISHER

DES: PFW
DRN: JCS
CHK: PFW
DATE: 10/92

BY NO. REVISION DATE

PROFILES
WATER AND SEWER MAINS

600 SCALE MAP NO. 25 BLOCK NO. 13

WATER & SEWER PROFILES
CAPLAN'S PROPERTY - PHASE 2

CONTRACT 14-3237-D
TAX MAP: 25 PARCELS: 38 & 62 & PO 278
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 3

CONTRACT NO. 14-3237-D
CAPLAN'S PROPERTY - PHASE 2
2ND ELECTION DISTRICT
WATER & SEWER MAIN EXTENSIONS