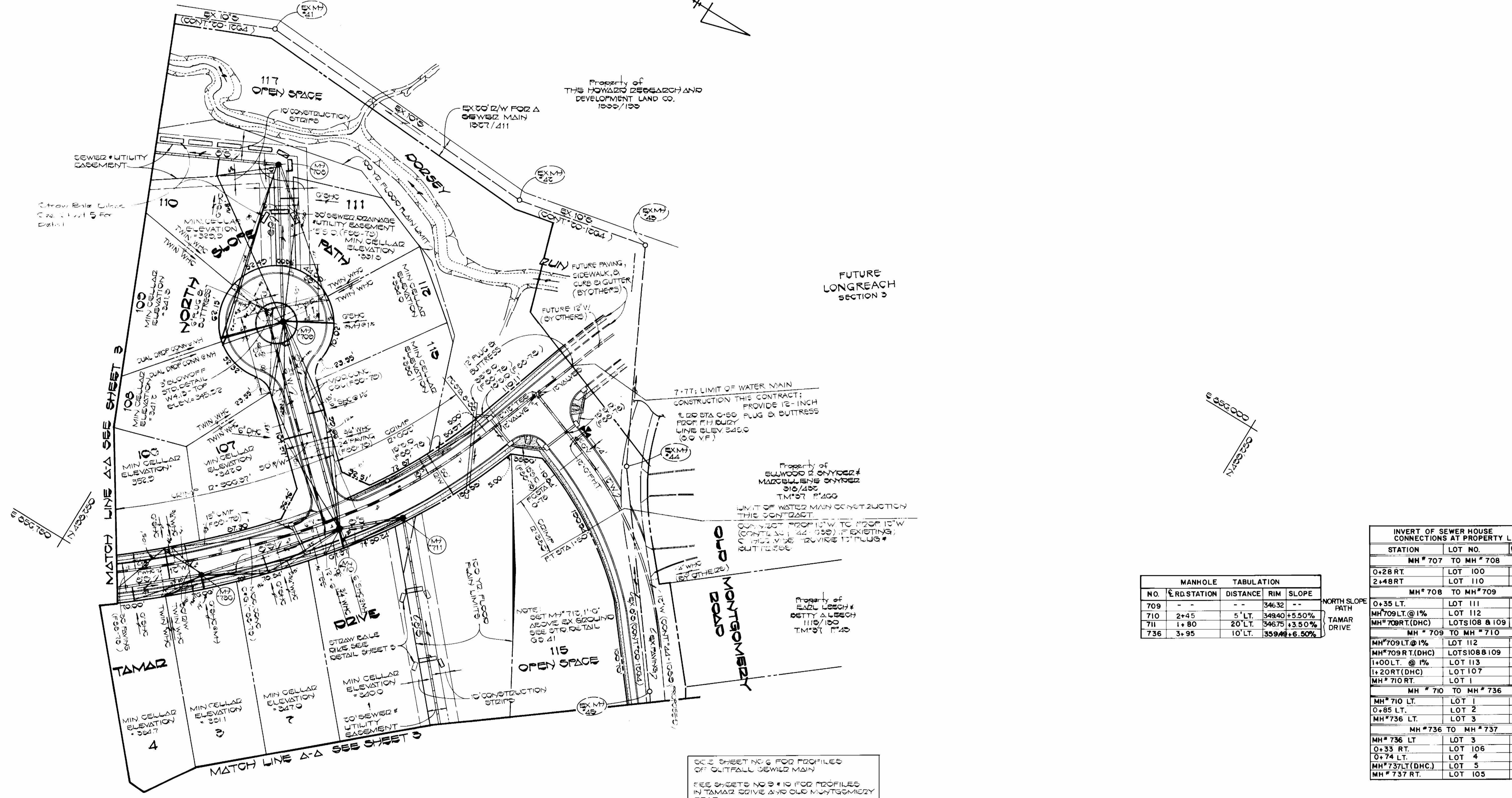


BENCH MARK
 1/4" NAIL SET IN 1" PIPE, 10'
 10' NORTH OF OLD MONTGOMERY
 ROAD, 35' SOUTH OF EX MH 43



MANHOLE TABULATION			
NO.	RD. STATION	DISTANCE	RIM SLOPE
709	-	-	346.32 --
710	2+45	5' LT.	349.40 +5.50%
711	1+80	20' LT.	346.75 +3.50%
736	3+95	10' LT.	359.44 +6.50%

INVERT OF SEWER HOUSE CONNECTIONS AT PROPERTY LINE		
STATION	LOT NO.	INVERT
MH # 707 TO MH # 708		
0+28 RT.	LOT 100	321.17
2+48 RT.	LOT 110	324.52
MH # 708 TO MH # 709		
0+35 LT.	LOT 111	326.51
MH # 709 LT. @ 1%	LOT 112	330.54
MH # 709 RT. (DHC)	LOTS 108 & 109	336.36
MH # 709 TO MH # 710		
MH # 709 LT. @ 1%	LOT 112	330.54
MH # 709 RT. (DHC)	LOTS 108 & 109	336.36
1+00 LT. @ 1%	LOT 113	332.39
1+20 RT. (DHC)	LOT 107	337.64
MH # 710 RT.	LOT 1	335.59
MH # 710 TO MH # 736		
MH # 710 LT.	LOT 1	335.59
0+85 LT.	LOT 2	341.61
MH # 736 LT.	LOT 3	346.49
MH # 736 TO MH # 737		
MH # 736 LT	LOT 3	346.49
0+33 RT.	LOT 106	348.48
0+74 LT.	LOT 4	350.27
MH # 737 LT. (DHC)	LOT 5	356.40
MH # 737 RT.	LOT 105	353.37

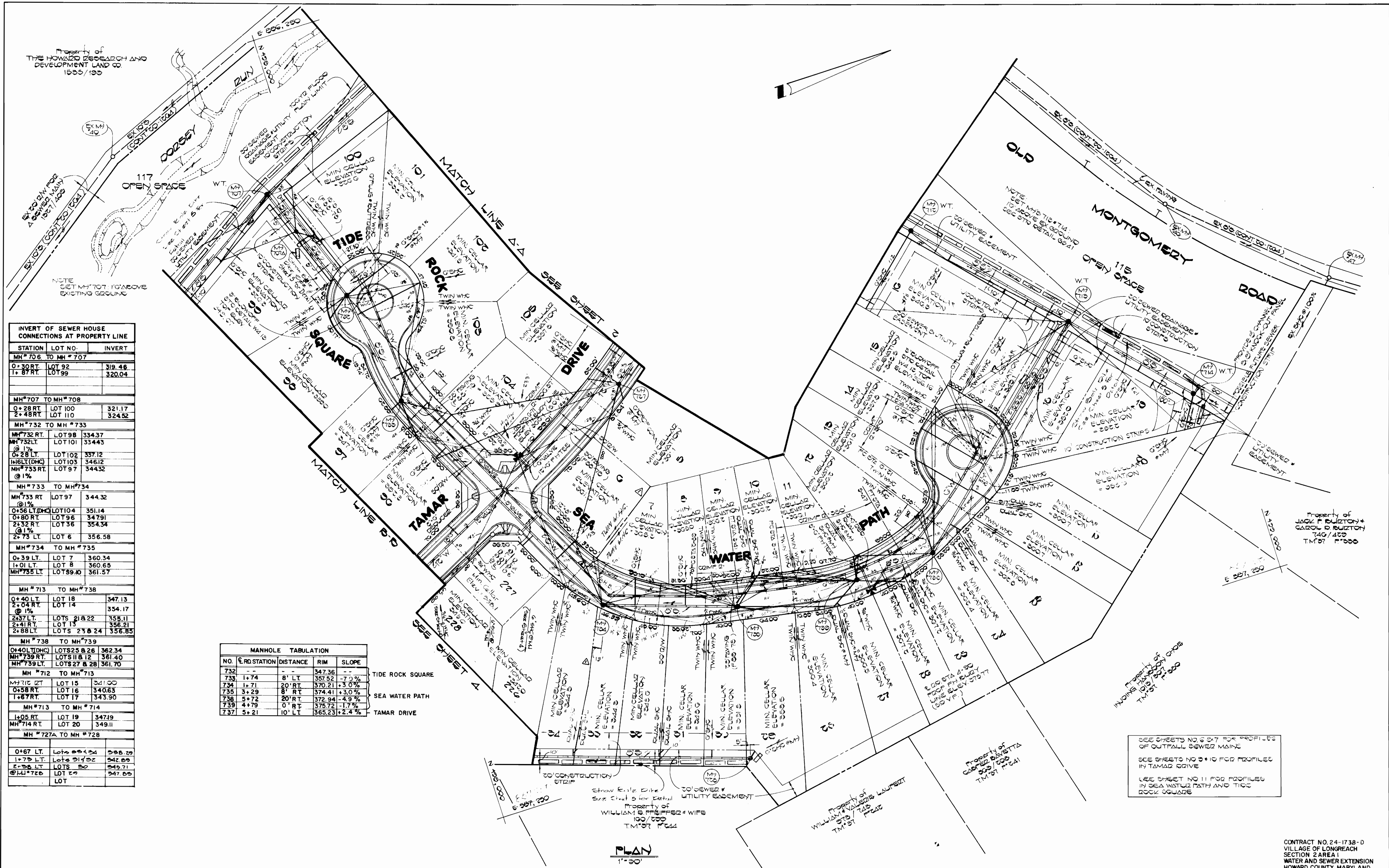
SEE SHEET NO. 6 FOR PROFILES OF OUTFALL SEWER MAIN
 SEE SHEETS NO. 9 & 10 FOR PROFILES IN TAMAR DRIVE AND OLD MONTGOMERY ROAD
 SEE SHEET NO. 9 FOR PROFILES IN NORTH SLOPE PATH

CONTRACT NO. 24-1738-D
 VILLAGE OF LONGREACH
 SECTION 2 AREA 1
 WATER AND SEWER EXTENSION
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works 1/26/88 Chief, Bureau of Utilities 1-22-88	FISHER, COLLINS AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 Terrell A. Fisher DATE:	DES: D.B.S. DRN: D.B.S. CHK: T.A.F.	PLAN WATER AND SEWER MAINS	VILLAGE OF LONGREACH SECTION 2 AREA 1 CONTRACT NO. 24-1738-D SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 2 OF 11
		DATE: BY NO. REVISION DATE	600' SCALE MAP NO. 37 BLOCK NO. 791014		

6/9/88

Property of
THE HOWARD RESEARCH AND
DEVELOPMENT LAND CO.
1555/193



INVERT OF SEWER HOUSE CONNECTIONS AT PROPERTY LINE

STATION	LOT NO.	INVERT
MH#706 TO MH#707		
0+30 RT.	LOT 92	319.46
1+87 RT.	LOT 99	320.04
MH#707 TO MH#708		
0+28 RT.	LOT 100	321.17
2+48 RT.	LOT 110	324.52
MH#732 TO MH#733		
MH#732 RT.	LOT 98	334.37
MH#732 LT.	LOT 101	334.43
@ 1%		
0+28 LT.	LOT 102	337.12
MH#732 (DHC)	LOT 103	346.12
MH#733 RT.	LOT 97	344.32
@ 1%		
MH#733 TO MH#734		
MH#733 RT.	LOT 97	344.32
@ 1%		
0+56 LT.(DHC)	LOT 104	351.14
0+80 RT.	LOT 96	347.91
2+32 RT.	LOT 36	354.34
@ 1%		
2+75 LT.	LOT 6	356.58
MH#734 TO MH#735		
0+39 LT.	LOT 7	360.34
1+01 LT.	LOT 8	360.65
MH#735 LT.	LOT 89.0	361.57
MH#713 TO MH#738		
0+40 LT.	LOT 18	347.13
2+04 RT.	LOT 14	354.17
@ 1%		
2+37 LT.	LOTS 21 & 22	355.11
2+41 RT.	LOT 13	356.21
2+88 LT.	LOTS 25 & 24	356.85
MH#738 TO MH#739		
0+40 LT.(DHC)	LOTS 25 & 26	362.34
MH#739 RT.	LOTS 11 & 12	361.40
MH#739 LT.	LOTS 27 & 28	361.70
MH#712 TO MH#713		
MH#712 RT.	LOT 15	341.00
0+58 RT.	LOT 16	340.63
1+87 RT.	LOT 17	343.90
MH#713 TO MH#714		
1+05 RT.	LOT 19	347.19
MH#714 RT.	LOT 20	349.11
MH#727A TO MH#728		
0+67 LT.	LOTS 29 & 24	358.29
1+73 LT.	LOTS 21 & 22	342.89
2+38 LT.	LOTS 20	349.71
@ 1% LT 20	LOT 20	347.00
	LOT	

MANHOLE TABULATION

NO.	RD. STATION	DISTANCE	RIM	SLOPE	
732	-	-	347.36	-	TIDE ROCK SQUARE
733	1+74	8' LT	357.52	-7.0%	
734	1+71	20' RT	370.21	+3.0%	
735	3+29	8' RT	374.41	+3.0%	SEA WATER PATH
738	5+72	20' RT	372.94	-4.9%	
739	4+79	0' RT	375.72	-1.7%	
737	5+21	10' LT	365.23	+2.4%	TAMAR DRIVE

PLAN
1"=30'

SEE SHEETS NO. 6 & 7 FOR PROFILES OF OUTFALL SEWER MAINS
SEE SHEETS NO. 9 & 10 FOR PROFILES IN TAMAR DRIVE
SEE SHEET NO. 11 FOR PROFILES IN SEA WATER PATH AND TIDE ROCK SQUARE

CONTRACT NO. 24-1738-D
VILLAGE OF LONGREACH
SECTION 2 AREA 1
WATER AND SEWER EXTENSION
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. Sullivan 1/26/08
DIRECTOR OF PUBLIC WORKS DATE

Richard R. Bennett 1-22-08
CHIEF, BUREAU OF UTILITIES DATE

Richard R. Bennett 1-26-08
CHIEF, BUREAU OF ENGINEERING DATE

Richard R. Bennett 1-25-08
CHIEF, LAND DEVELOPMENT DIVISION DATE

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

Terrell A. Fisher
TERRELL A. FISHER DATE

DES. D.B.S.				
DRN. D.B.S.	M.C.F.	4	REVISE PROPERTY LINES ON LOTS 220, 227, 228	7-20-03
CHK. T.A.F.	M.C.F.	Δ	REVISE S.H.C. IN CHART	7-20-03
	D.A.C.	Δ	REVISE LOCATION OF TWIN WHC TO 60'S G.P.7	4-17-03
	D.A.C.	Δ	REVISE PROPERTY LINES ON LOTS 220, 223, 224	4-17-03
DATE:	BY	NO.	REVISION	DATE

PLAN
WATER AND SEWER MAINS

600 SCALE MAP NO. 37 BLOCK NO. 7.0.E.14

VILLAGE OF LONGREACH
SECTION 2 AREA 1
CONTRACT NO. 24-1738-D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 11

BRUNING 44 132 691 50

AS BUILT 6/9/09

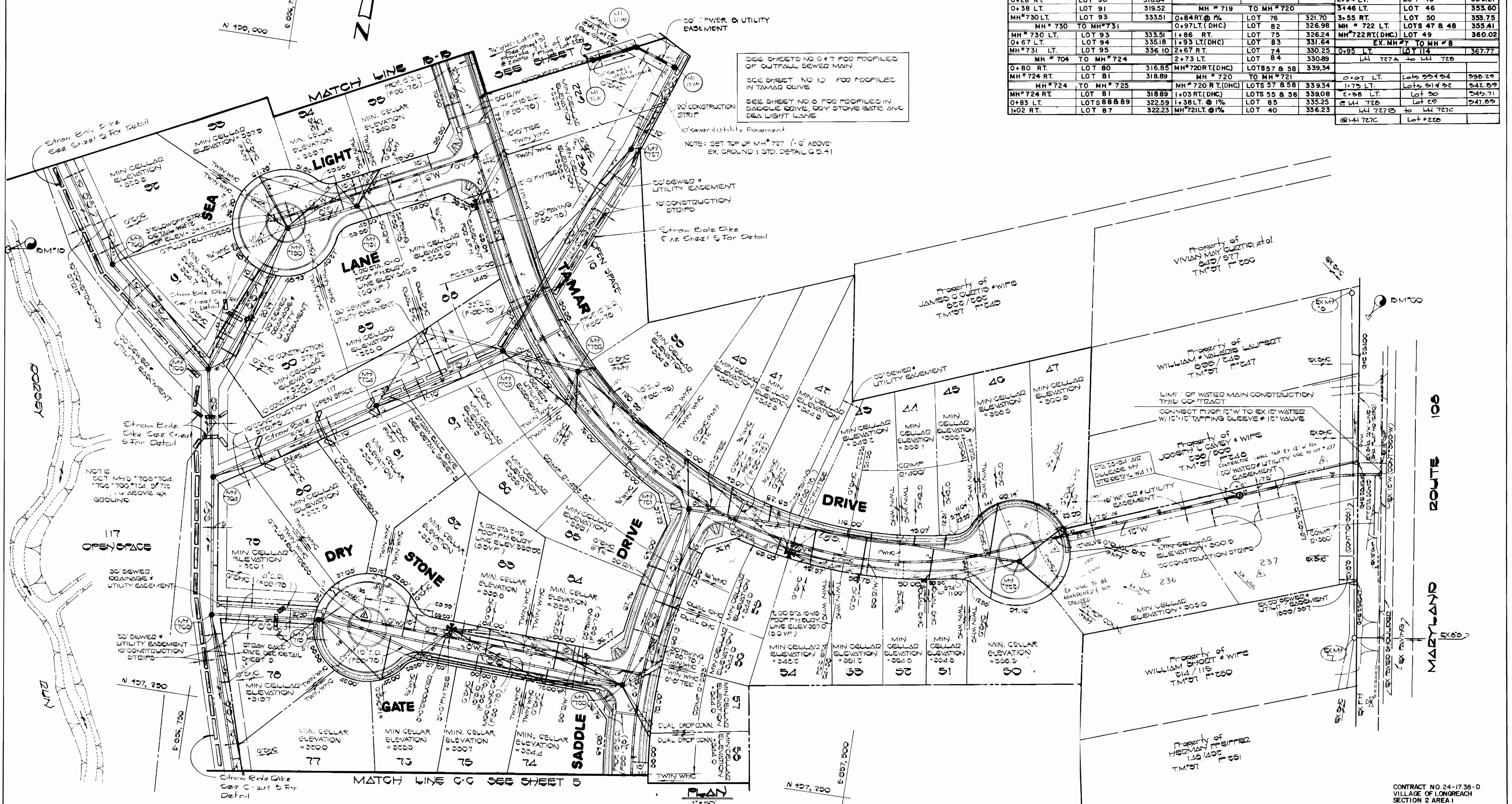
BENCH MARK

BM #10 ELEV 353.00
 P.K. NAIL SET IN 1" OAK ON WEST SIDE
 OF DORSEY DR, 100' WEST OF
 PROP. MH #700

MANHOLE TABULATION				
NO.	RD. STATION	DISTANCE	RIM	SLOPE
719	--	--	331.20	--
720	2+31	14' RT.	347.55	2.30%
721	0+22	13' RT.	350.15	1.50%
722	--	--	370.48	--
730	--	--	344.41	--
731	1+54	7' LT.	346.51	1.00%
726	12+29	6' LT.	343.30	1.80%

DRY STONE GATE
 SADDLE DRIVE
 TAMAR DRIVE
 SEA LIGHT LANE
 TAMAR DRIVE

INVERT OF SEWER HOUSE CONNECTIONS AT PROPERTY LINE											
STATION	LOT NO.	INVERT	STATION	LOT NO.	INVERT	STATION	LOT NO.	INVERT	STATION	LOT NO.	INVERT
MH # 702	TO MH # 703		MH # 725	TO MH # 726		MH # 721	TO MH # 722				
0+53 RT.	LOT 70	313.21	MH # 726 LT.	LOT 39	330.53	MH # 721 LT. @ 1%	LOT 40	336.23			
1+99 RT.	LOT 77	313.94	MH # 726 RT.	LOT 86	330.83	0+45 LT.	LOT 41	338.53			
2+87 RT.	LOT 78	314.38	MH # 727	TO MH # 727A		0+92 LT.	LOT 42	340.64			
MH # 703	TO MH # 704					1+47 RT.	LOT 54	343.75			
0+56 RT.	LOT 79	315.06	0+67 LT.	LOT 37	333.69	1+83 LT.	LOT 43	344.92			
MH # 706	TO MH # 707					2+05 RT.	LOT 53	346.71			
0+30 RT.	LOT 92	319.46				2+59 LT.	LOT 44	348.93			
MH # 705	TO MH # 730					2+81 RT.	LOTS 51 & 52	349.96			
0+28 RT.	LOT 90	318.84				2+94 LT.	LOT 45	350.21			
0+38 LT.	LOT 91	319.52	MH # 719	TO MH # 720		3+46 LT.	LOT 46	353.60			
MH # 730 LT.	LOT 93	333.51	0+84 RT. @ 1%	LOT 76	321.70	3+55 RT.	LOT 50	353.75			
MH # 730	TO MH # 731		0+97 LT. (DHC)	LOT 82	326.98	MH # 722 LT.	LOTS 47 & 48	355.41			
MH # 730 LT.	LOT 93	333.51	1+86 RT.	LOT 75	326.24	MH # 722 RT. (DHC)	LOT 49	360.02			
0+67 LT.	LOT 94	335.18	1+93 LT. (DHC)	LOT 83	331.64	EX. MH # 7	TO MH # 8				
MH # 731 LT.	LOT 95	336.10	2+67 RT.	LOT 74	330.25	0+95 LT.	LOT 114	367.77			
MH # 704	TO MH # 724		2+73 LT.	LOT 84	330.89	MH # 727A	TO MH # 728				
0+80 RT.	LOT 80	316.85	MH # 720 RT. (DHC)	LOTS 57 & 58	339.34						
MH # 724 RT.	LOT 81	318.89	MH # 720	TO MH # 721		0+27 LT.	LOTS 31 & 34	336.29			
MH # 724	TO MH # 725		MH # 720 RT. (DHC)	LOTS 57 & 58	339.34	1+75 LT.	LOTS 31 & 32	342.09			
MH # 724 RT.	LOT 81	318.89	1+03 RT. (DHC)	LOTS 55 & 56	339.08	2+38 LT.	LOT 30	345.71			
0+83 LT.	LOTS 88 & 89	322.59	1+38 LT. @ 1%	LOT 85	335.25	EX. MH # 7	TO MH # 8				
1+02 RT.	LOT 87	322.23	MH # 721 LT. @ 1%	LOT 40	336.23	MH # 727B	TO MH # 727C				
						1+41 RT. (DHC)	LOT 122B				



SEE SHEETS NO. 6 & 7 FOR PROFILES OF OUTFALL SEWER MAIN
 SEE SHEET NO. 10 FOR PROFILES IN TAMAR DRIVE
 SEE SHEET NO. 8 FOR PROFILES IN SADDLE DRIVE, DRY STONE GATE AND SEA LIGHT LANE
 NOTE: SET TOP OF MH # 727 1'-0" ABOVE EX. GROUND: STD. DETAIL G.5.41

PLAN
 1" = 50'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: *Robert S. ...*
 Chief, Bureau of Utilities: *Robert S. ...*

FISHER, COLLINS AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 Terrell A. Fisher, DATE

DES. D.B.S.	CHK. T.A.F.	DATE
S.H. A		3-22-88
M.C.F. A		7-16-88
M.C.F. B		7-26-88
M.C.F. C		7-26-88
M.C.F. D		7-26-88
M.C.F. E		7-26-88
D.A.N.		7-26-88

PLAN
 WATER AND SEWER MAINS
 600' SCALE MAP NO. 37 BLOCK NO. 7, 8, 9, 14

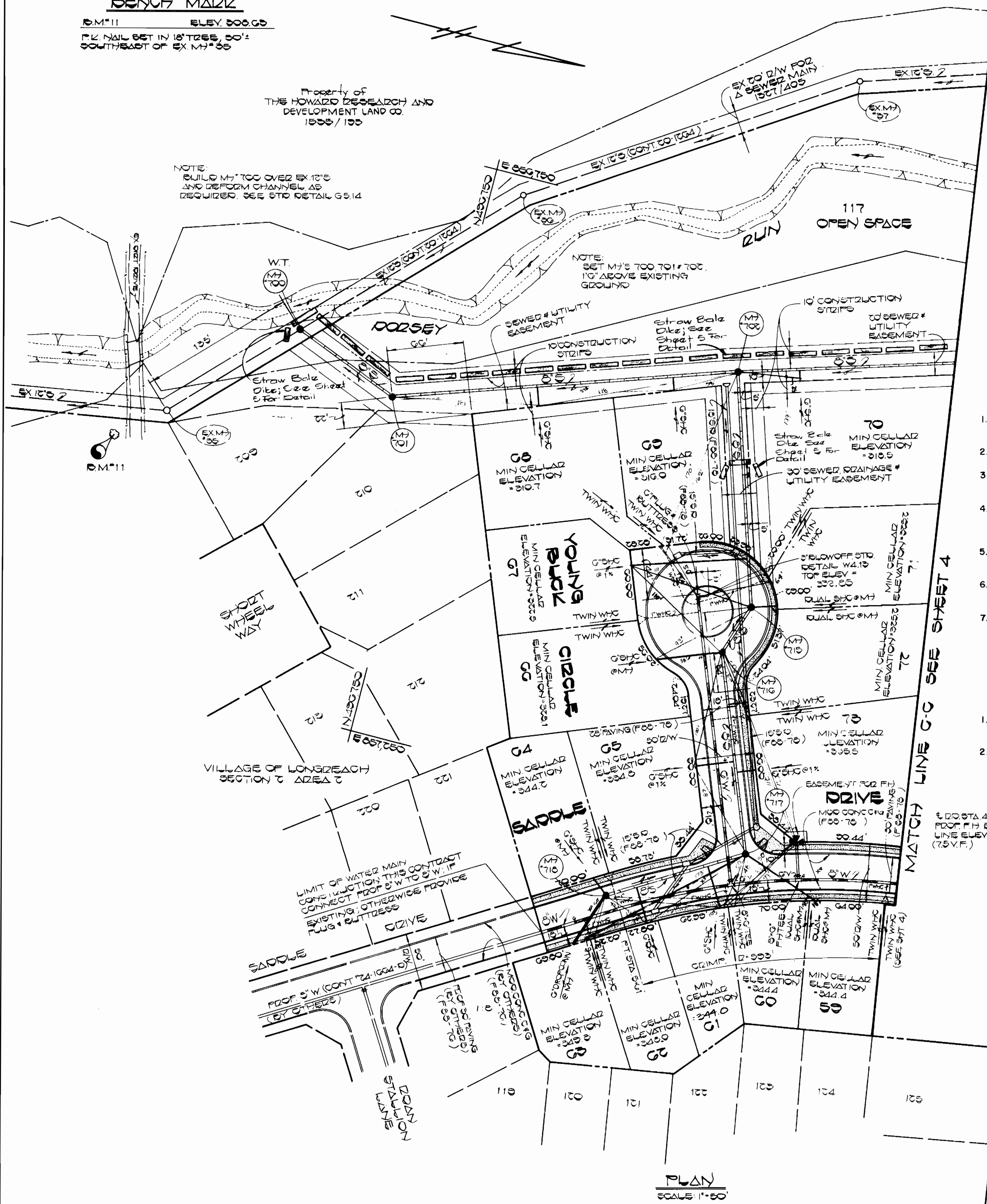
VILLAGE OF LONGREACH
 SECTION 2 AREA 1
 CONTRACT NO. 24-1738-D
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 4 OF 11

BENCH MARK

BM#11 ELEV. 500.65
 P.L. NAIL SET IN 18" TREE, 50' SOUTHWEST OF EX. 147-56

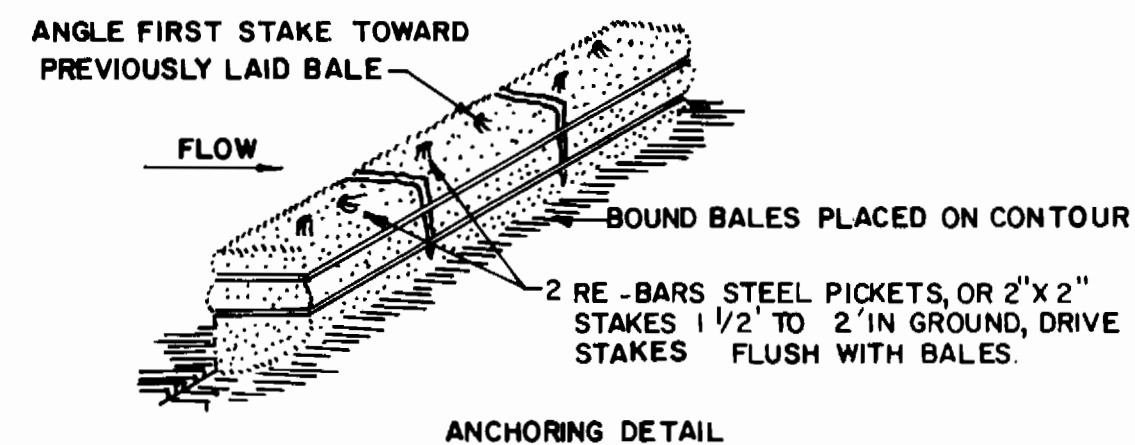
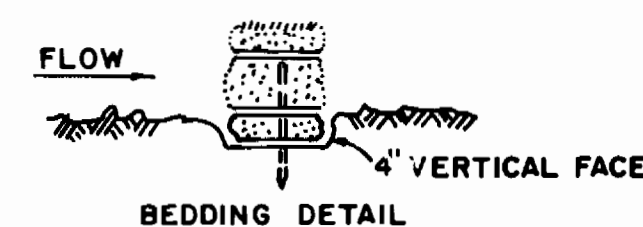
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NOTE: BUILD MH#700 OVER EX. 12'S AND DEFORM CHANNEL AS REQUIRED. SEE STD DETAIL G514



SEWER MAIN CONSTRUCTION SEQUENCE

1. IMPLEMENT CONDITIONS & REQUIREMENTS OF THE TEMPORARY WATERWAY CONSTRUCTION PERMIT - SEE CONTRACT SPECIFICATIONS.
2. INSTALL REQUIRED SEDIMENT & EROSION CONTROL DEVICES - SEE PLAN SHEETS FOR LOCATIONS.
3. CLEAR AND GRUB AS NECESSARY - WITHIN THE LIMITS OF THE SEWER MAIN RIGHT OF WAY ONLY.
4. EXCAVATE TRENCH; PLACE EXCAVATED MATERIAL ON THE UPGRADE SIDE OF THE SEWER MAIN TRENCH.
5. INSTALL SEWER MAIN, BACKFILL & COMPACT TRENCH IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
6. STABILIZE, SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT STABILIZATION AND SEEDING NOTES SHOWN ON THIS SHEET.
7. FOLLOWING SUCCESSFUL STABILIZATION OF ALL DISTURBED AREAS AND UPON APPROVAL OF THE SOIL CONSERVATION DISTRICT INSPECTOR, REMOVE THE EROSION & SEDIMENT CONTROL DEVICES.



STRAW BALE DIKE

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

EROSION AND SEDIMENT CONTROL NOTES

1. ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SEDIMENT CONTROL IN DEVELOPING AREAS.
2. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS.
3. ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE SEWER MAIN TRENCH.
4. IMMEDIATELY FOLLOWING BACKFILL OF THE SEWER MAIN TRENCH, ALL DISTURBED AREAS ARE TO BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION AND SEEDING NOTES SHOWN ON THIS SHEET.
5. THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES AND PROVIDE ALL NECESSARY MAINTENANCE TO INSURE THAT ALL DEVICES ARE IN OPERATIVE CONDITION.
6. ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
7. SEE SEWER MAIN CONSTRUCTION SEQUENCE THIS SHEET.

PERMANENT STABILIZATION AND SEEDING NOTES

1. REFERENCE SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS FOR COMPLETE REQUIREMENTS REGARDING PERMANENT STABILIZATION AND SEEDING OF ALL DISTURBED AREAS.
2. REFERENCE PARAGRAPH 219.11 FOR EXECUTION REQUIREMENTS REGARDING PERMANENT SEEDING.
3. LIMESTONE: APPLY LIMESTONE AT THE RATE OF 1 1/2 TONS PER ACRE ON SANDY AND SILTY SOILS AND 2.3 TONS PER ACRE ON CLAY OR CLAY LOAM SOILS.
4. FERTILIZER: APPLY FERTILIZER AT THE RATE OF 600 POUNDS OF 0-20-20 PER ACRE WITH LIMESTONE APPLICATION (SEE ABOVE). IMMEDIATELY PRIOR TO SEEDING, APPLY 400 POUNDS OF 38-0-0 UREAFORM AND 500 POUNDS OF 10-20-20 PER ACRE.
5. PERMANENT SEED SHALL CONFORM TO THE REQUIREMENTS, MIXTURES AND APPLICATION RATES AS SPECIFIED IN SUBPARAGRAPH 219.10-2.
6. MULCH SHALL BE CLEAN, WEED-FREE, UNROTTED STRAW APPLIED AT THE RATE OF NOT LESS THAN 1 1/2 TONS PER ACRE OR WOOD CHIPS WITH A COVERAGE OF 1 1/2 INCHES IN DEPTH.
7. MULCH SHALL BE ANCHORED WITH CUT BACK AND EMULSIFIED ASPHALT APPLIED AT A RATE OF 5 GALLONS PER 1000 SQUARE FEET. REFERENCE SUBPARAGRAPH 219.10-6 FOR MULCH ANCHORING ALTERNATIVES.

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, SWALES, 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.

SEE SHEET NO. 6 FOR PROFILES OF CULVERTS UNDER SADDLE DRIVE AND YOUNG BUCK CIRCLE

INVERT OF SEWER HOUSE CONNECTIONS AT PROPERTY LINE		
STATION	LOT	INVERT
MH # 701 TO MH # 702 (OUTFALL)		
1+25 RT.	LOT 68	305.24
2+42 RT.	LOT 69	310.46
MH # 702 TO MH # 703 (OUTFALL)		
0+53 RT.	LOT 70	313.21
1+99 RT.	LOT 77	313.94
2+87 RT.	LOT 78	314.38
MH # 702 TO MH # 715 (OUTFALL)		
1+58 RT @ 1%	LOT 67	319.06
MH # 715 LT.	LOTS 71 & 72	320.13
MH # 715 TO MH # 716 (YOUNG BUCK CIR.)		
MH # 715 LT.	LOTS 71 & 72	320.13
MH # 716 RT.	LOT 66	323.33
MH # 716 TO MH # 717 (YOUNG BUCK CIR.)		
MH # 716 RT.	LOT 66	323.33
0+96 RT @ 1%	LOT 65	331.13
1+05 LT @ 1%	LOT 73	331.81
MH # 717 TO MH # 718 (SADDLE DR.)		
MH # 717	LOTS 59 & 60	339.54
MH # 717	LOTS 59 & 60	339.54
0+34 LT.	LOT 61	339.01
0+98 LT (DHC)	LOT 62	343.16
MH # 718 LT (DHC)	LOT 63	344.50
MH # 718 RT.	LOT 64	339.34

MANHOLE TABULATION				
NO.	E.R.D. STATION	DISTANCE	RIM	SLOPE
715	--	--	333.15	--
716	--	--	336.80	--
717	0+19	7' RT.	349.59	4.00%
718	5+83	7' RT.	352.72	3.00%

YOUNG BUCK CIRCLE
 SADDLE DRIVE

PLAN SCALE 1"=50'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James M. Linn 1/22/88
 DIRECTOR OF PUBLIC WORKS DATE

Robert M. Linn 1-22-88
 CHIEF, BUREAU OF UTILITIES DATE

William J. Linn 1-22-88
 CHIEF, BUREAU OF ENGINEERING DATE

William J. Linn 1-22-88
 CHIEF, LAND DEVELOPMENT DIVISION DATE

FISHER, COLLINS AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043

STATE OF MARYLAND
 REGISTERED PROFESSIONAL ENGINEER
 TERRELL A. FISHER DATE

DES: D.B.S.					
DRN: D.B.S.					
CHK: T.A.F.					
DATE:	BY:	NO.	REVISION	DATE	

PLAN
 WATER AND SEWER MAINS

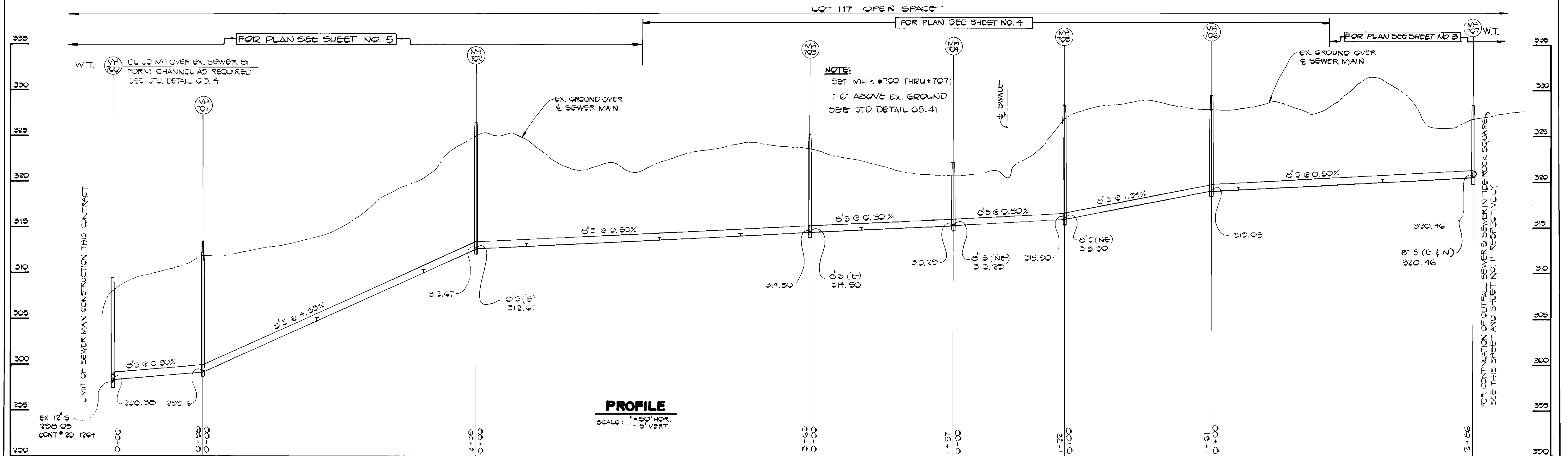
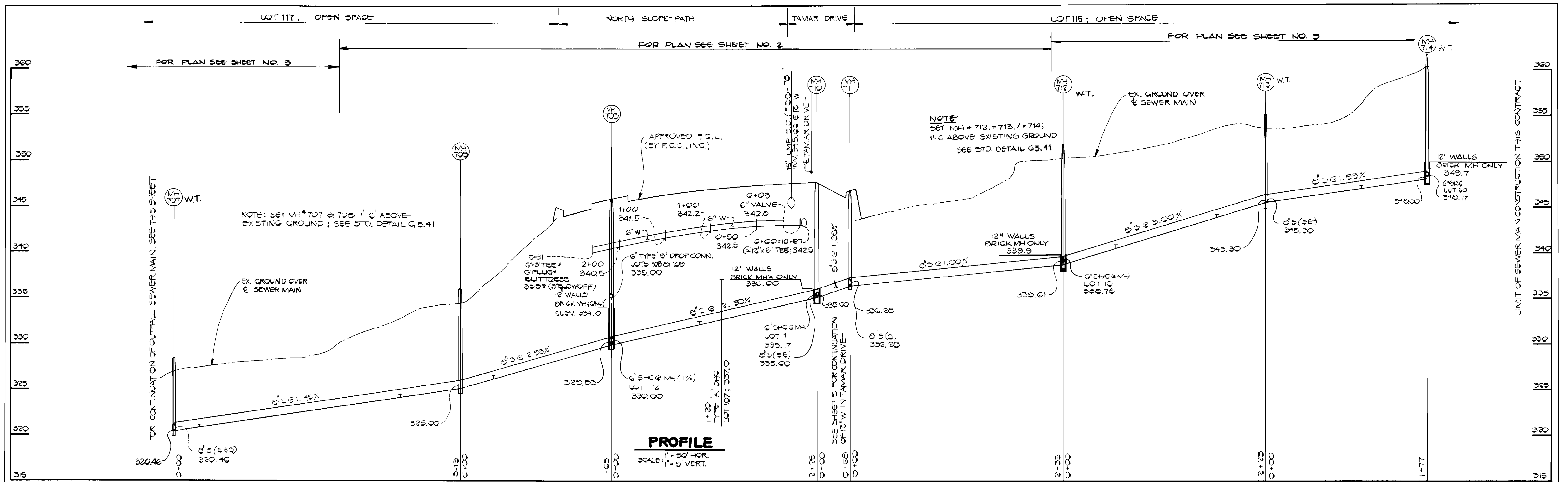
600' SCALE MAP NO. 37 BLOCK NO. 7, 8, 13 & 14

VILLAGE OF LONGREACH
 SECTION 2 AREA 1
 CONTRACT NO. 24-1738-D
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 5 OF 11

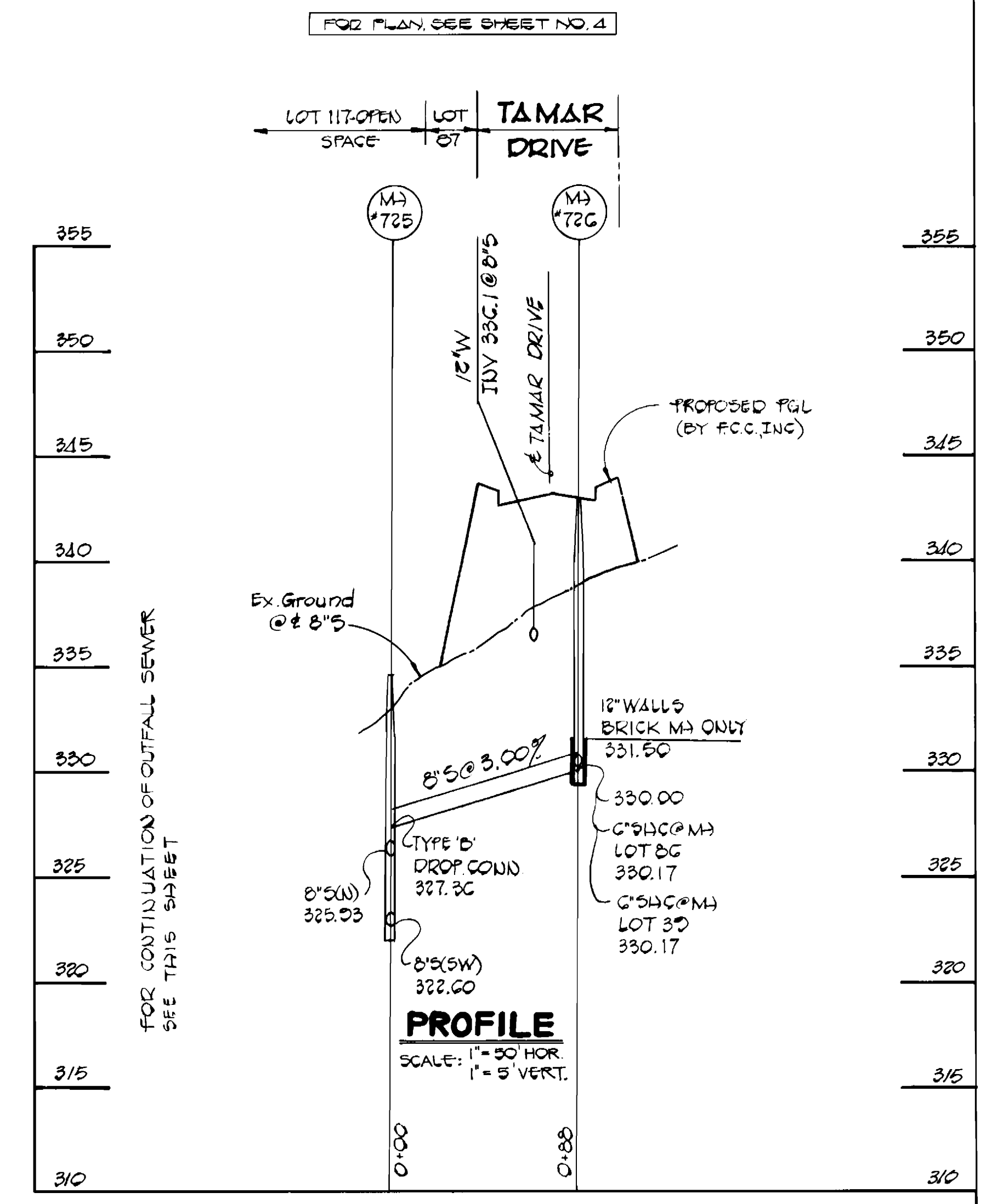
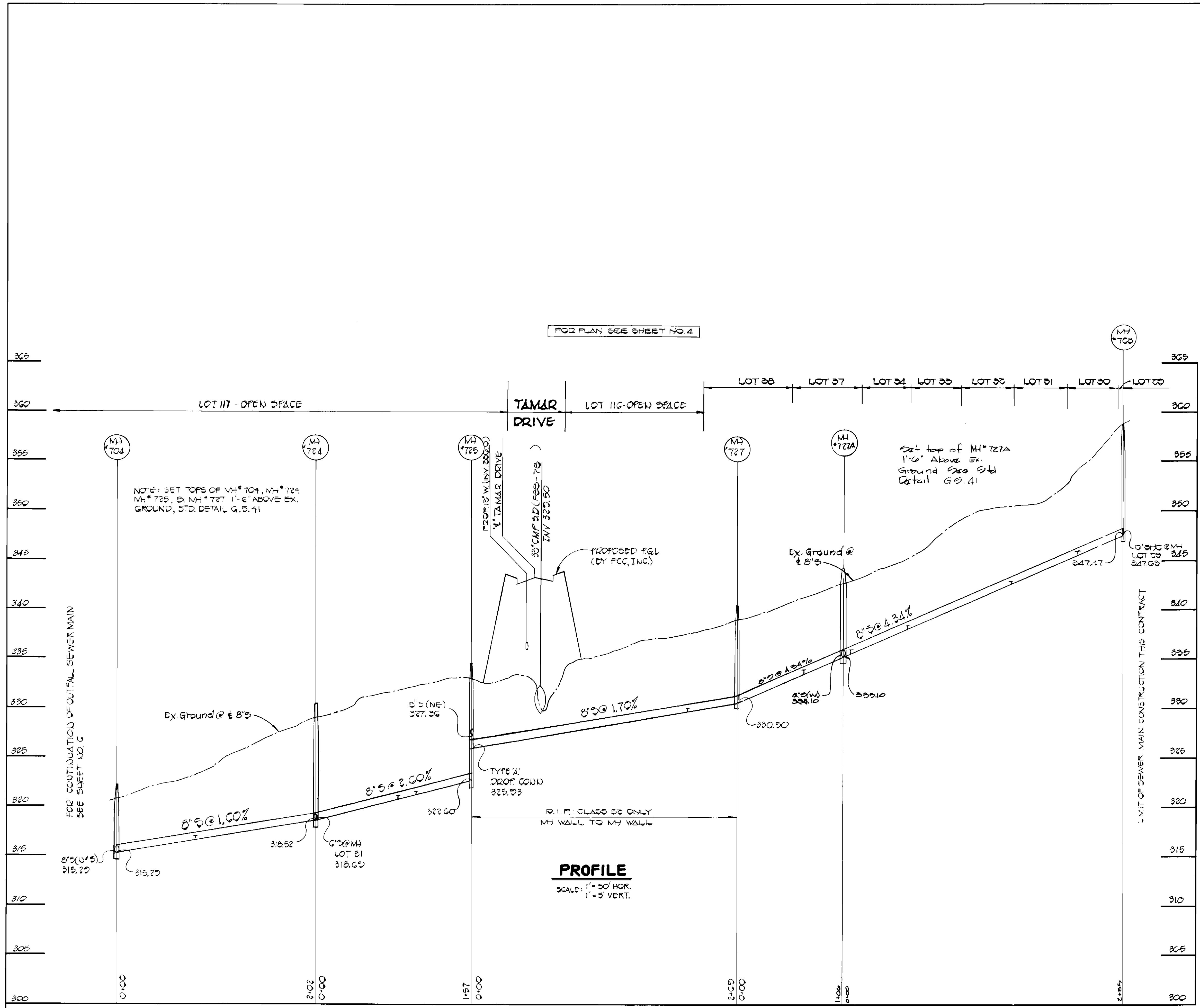
DRAWING 44-132 691 950

6/9/88



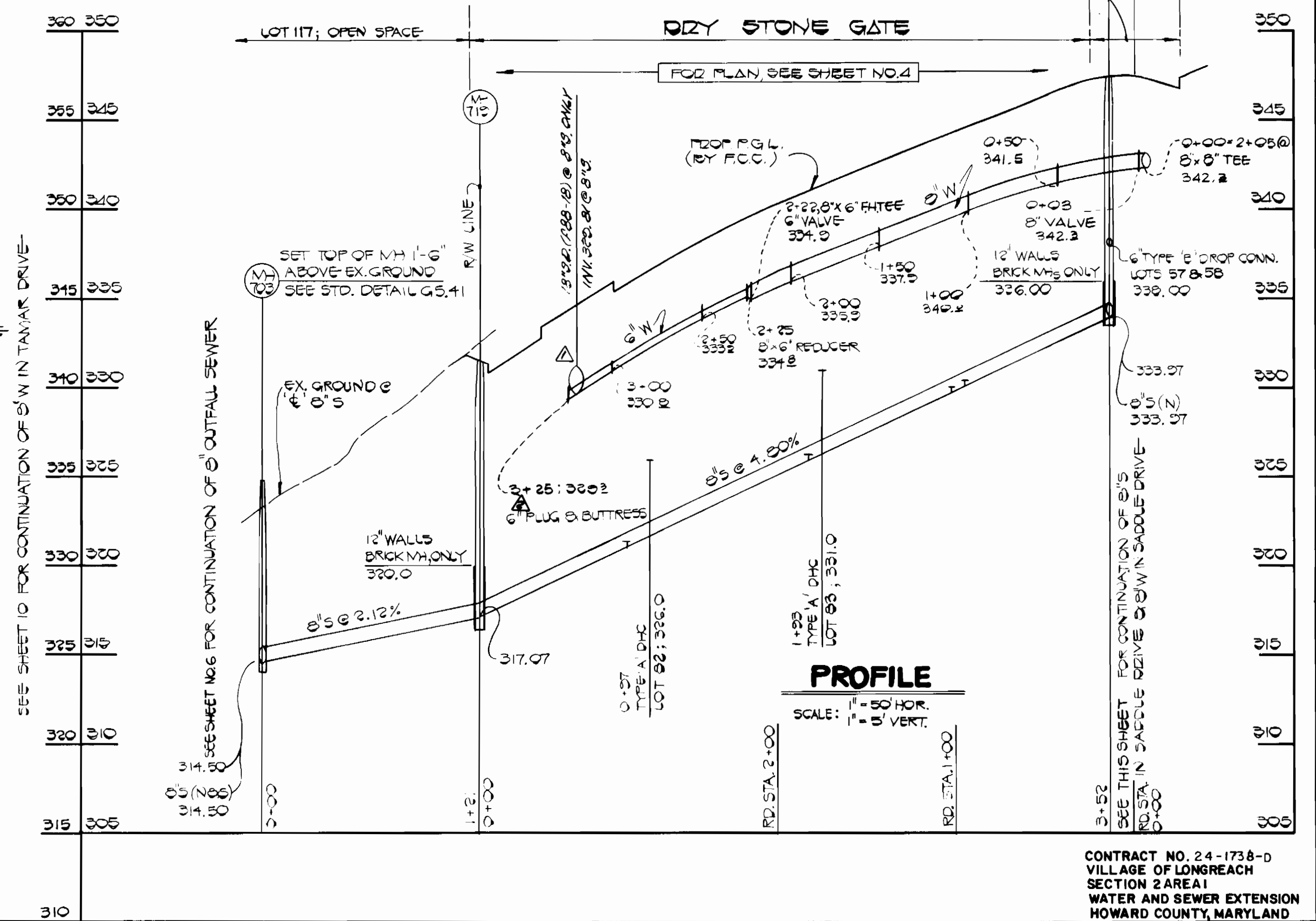
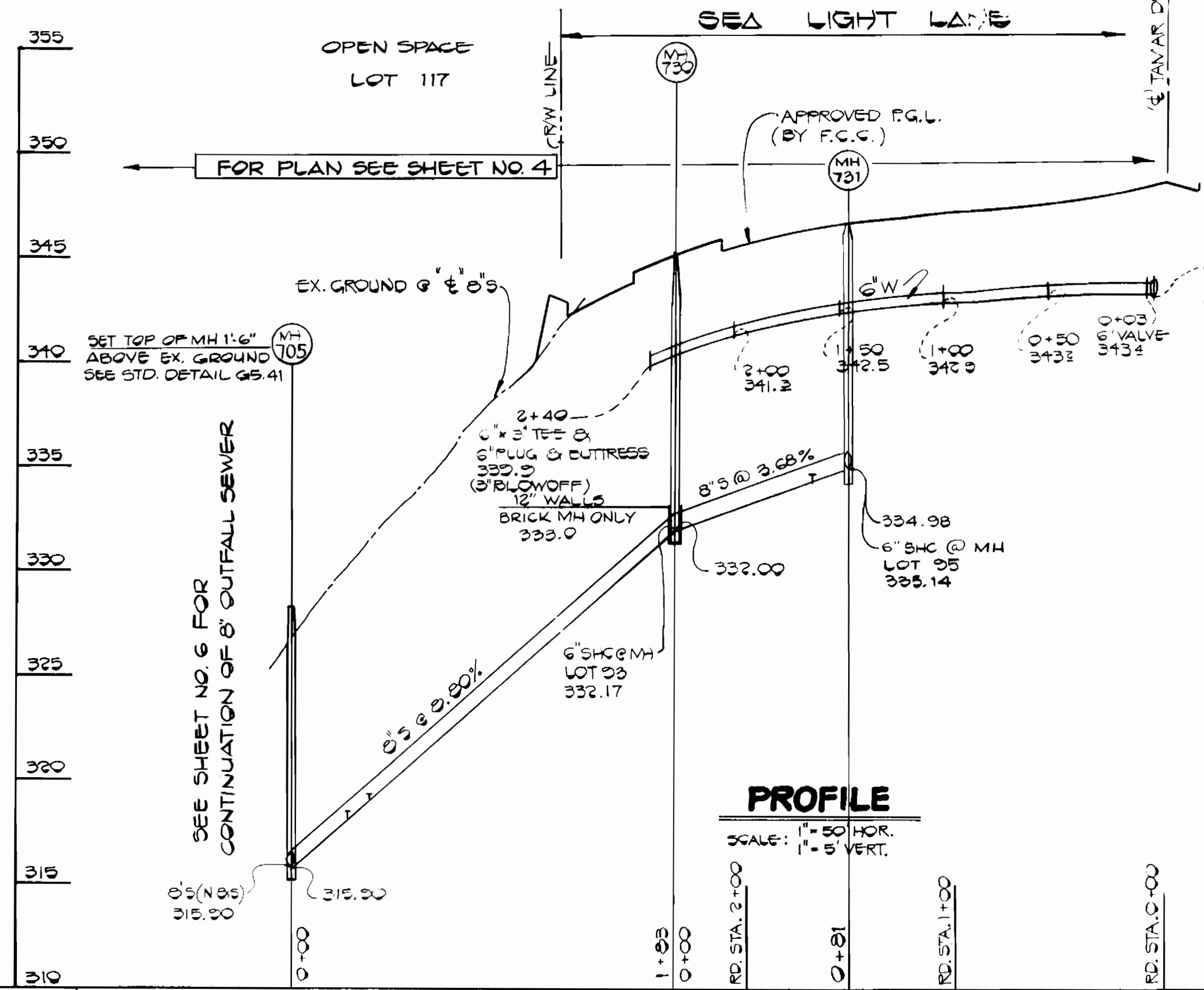
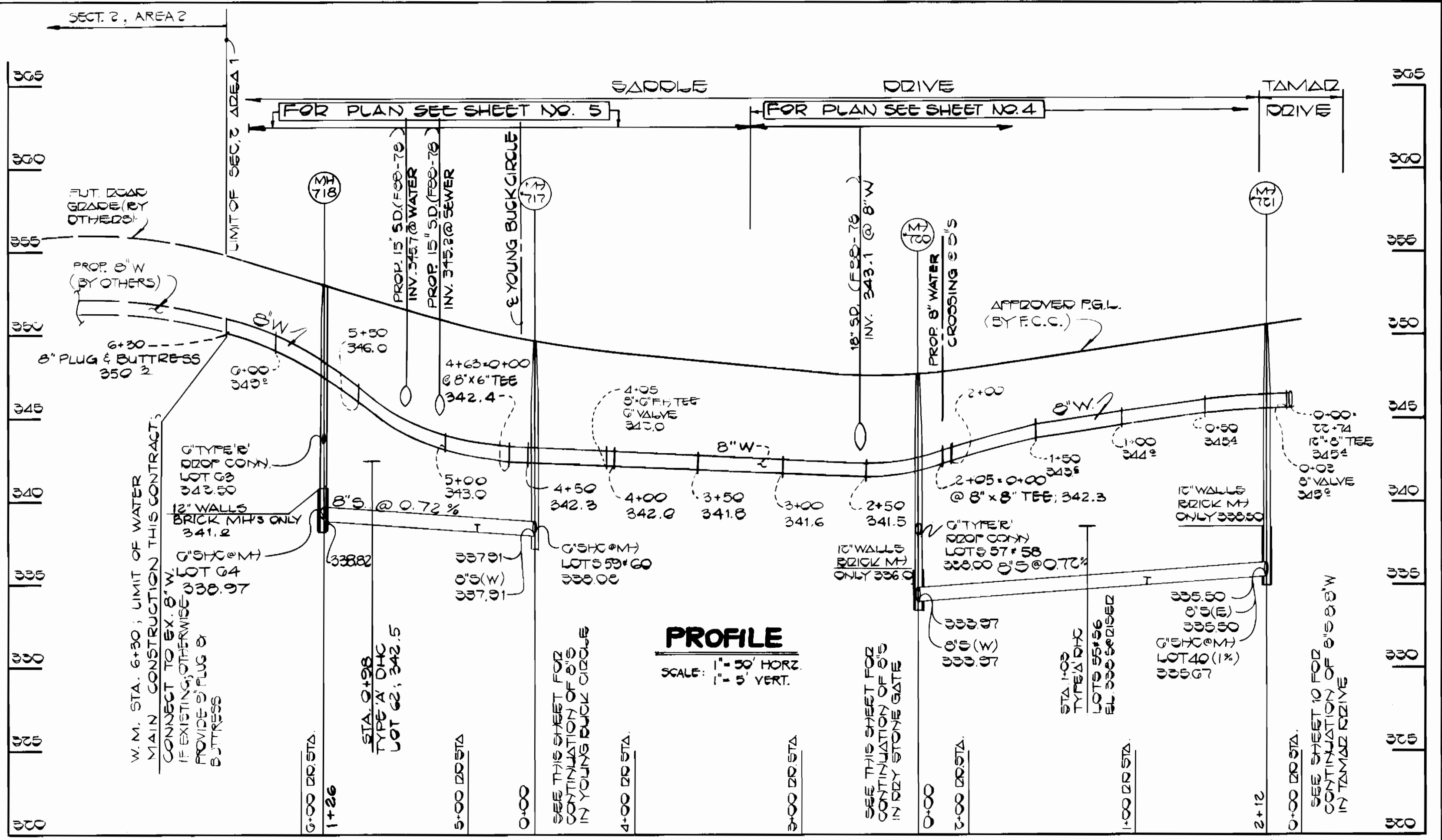
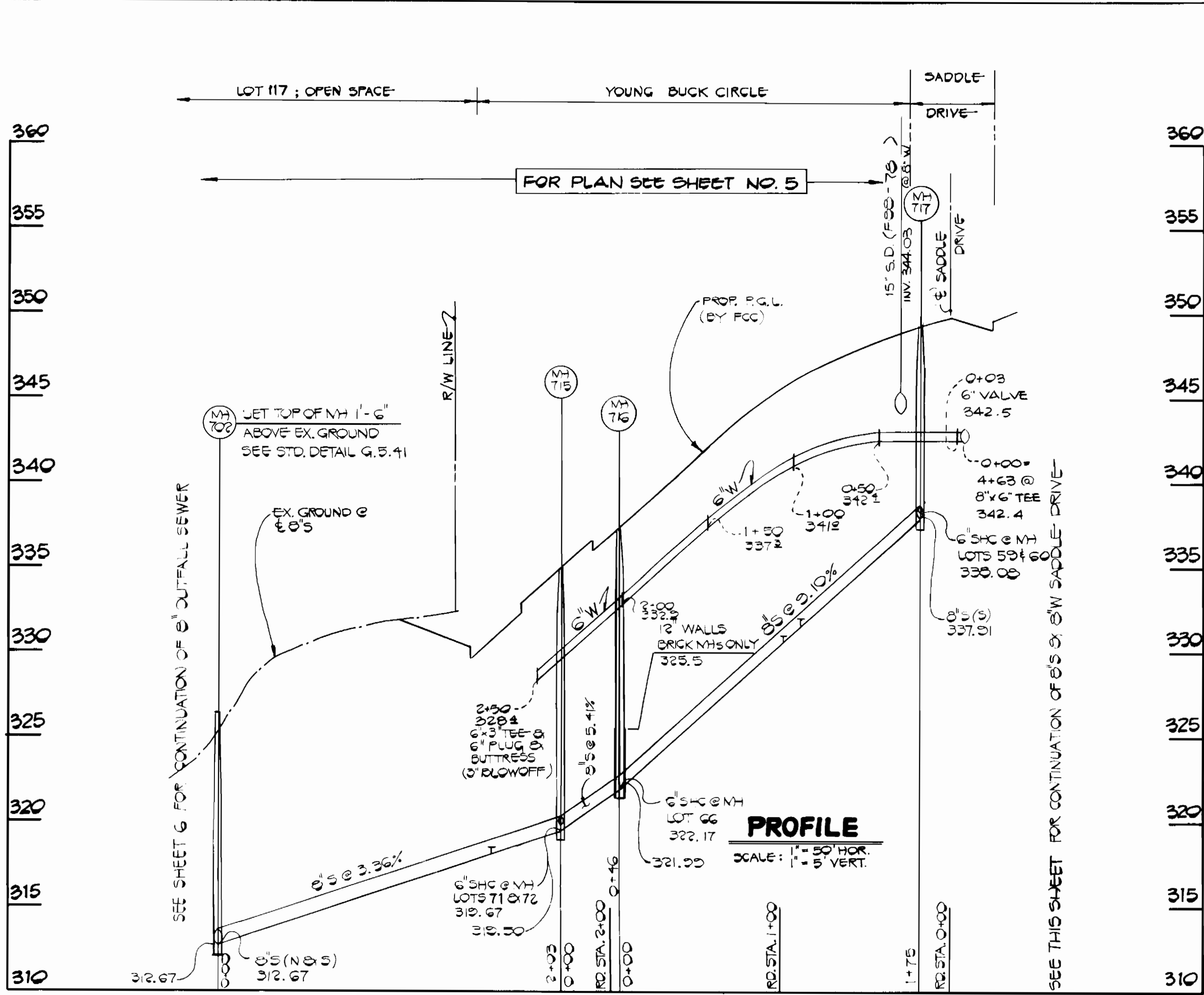
<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>John P. ...</i> DIRECTOR OF PUBLIC WORKS DATE: 1-22-88</p> <p><i>...</i> CHIEF, BUREAU OF UTILITIES</p>	<p>FISHER, COLLINS AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS</p> <p>8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043</p> <p><i>Terrell A. Fisher</i> TERRELL A. FISHER DATE</p>		<p>DES: D. B.S.</p> <p>DRN: D. B.S.</p> <p>CHK: T. A. F.</p> <p>DATE:</p>	<p>PROFILES</p> <p>WATER AND SEWER MAINS</p> <p>600' SCALE MAP NO. 37 BLOCK NO.</p>	<p>VILLAGE OF LONGREACH</p> <p>SECTION 2 AREA 1</p> <p>CONTRACT NO. 24-1738 - D</p> <p>SIXTH ELECTION DISTRICT</p> <p>HOWARD COUNTY, MARYLAND</p>	<p>SCALE AS SHOWN</p> <p>SHEET 6 OF 11</p>
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AS-BUILT 6/9/88



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>[Signature]</i> 1-22-88 Chief, Bureau of Utilities: <i>[Signature]</i>	FISHER, COLLINS AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 Chief, Land Development Division: <i>[Signature]</i>	DES: D.B.S. DRN: D.B.S. CHK: T.A.F. DATE: 7-26-88	M.C.F. BY NO. REVISION DATE		600' SCALE MAP NO. 37 BLOCK NO.	CONTRACT NO. 24-1738-D VILLAGE OF LONGREACH SECTION 2 AREA 1 WATER AND SEWER EXTENSION HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 7 OF 11
			Add MH 727A in Profile				

AS BUILT 6/9/88



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James A. ... 1-22-88
DIRECTOR OF PUBLIC WORKS DATE

William ... 1-22-88
CHIEF, BUREAU OF ENGINEERING DATE

Robert ... 1-22-88
CHIEF, BUREAU OF UTILITIES DATE

... 1-22-88
CHIEF, LAND DEVELOPMENT DIVISION DATE

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

Terrell A. Fisher
TERRELL A. FISHER DATE

DES.	D. B. S.		
DRN.	D. B. S.		
CHK.	T. A. F.		
DATE:			
BY:	NO.	REVISION	DATE

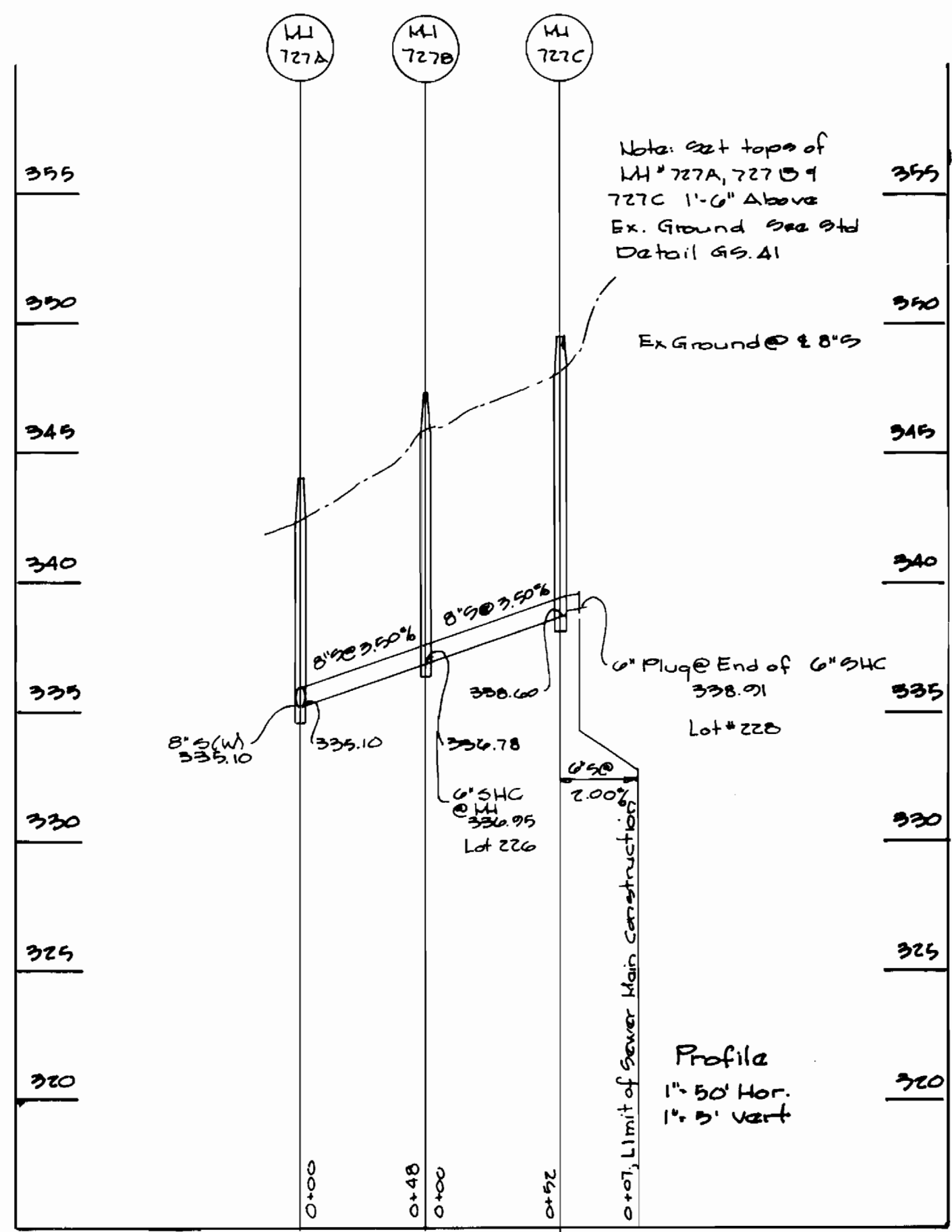
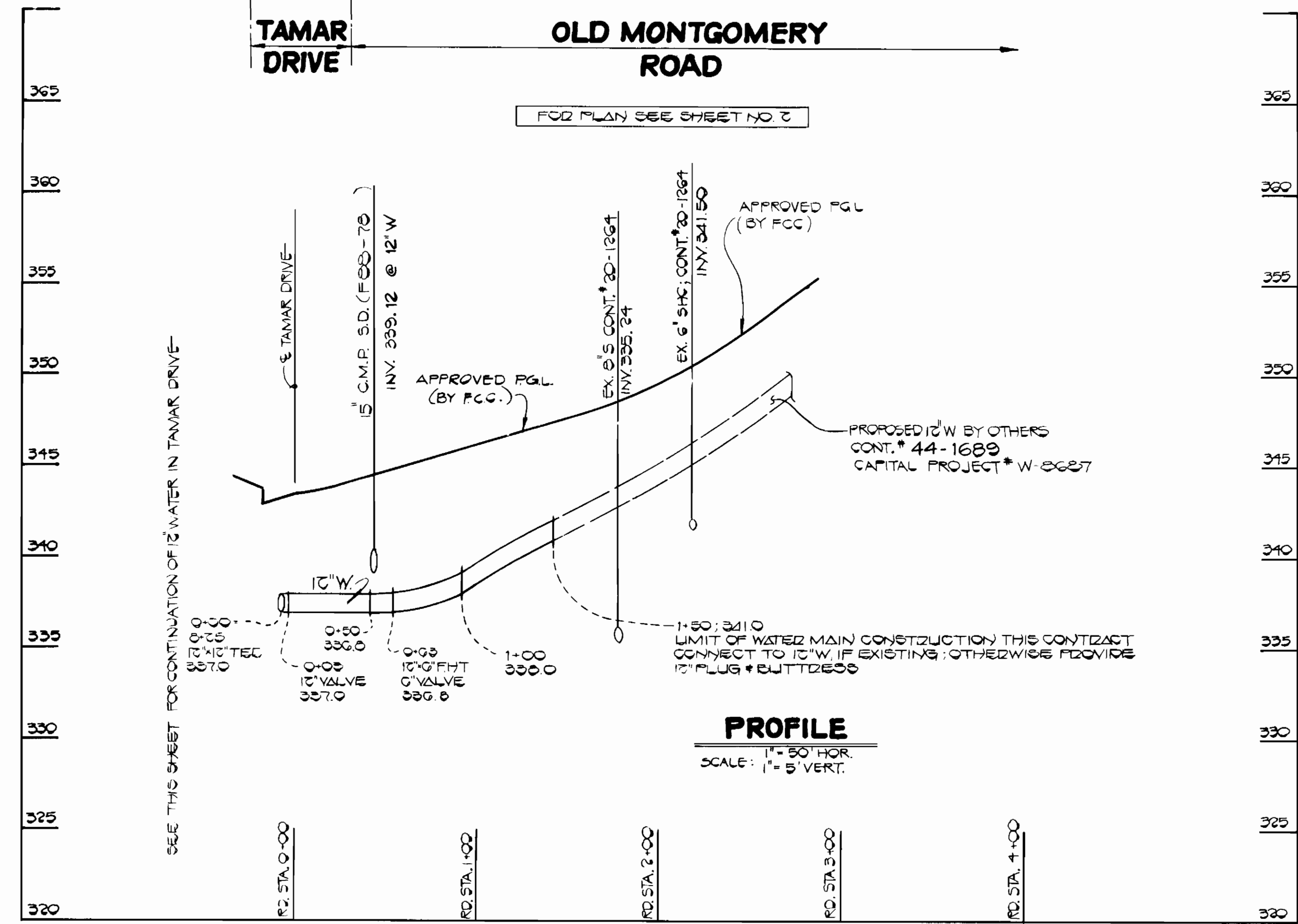
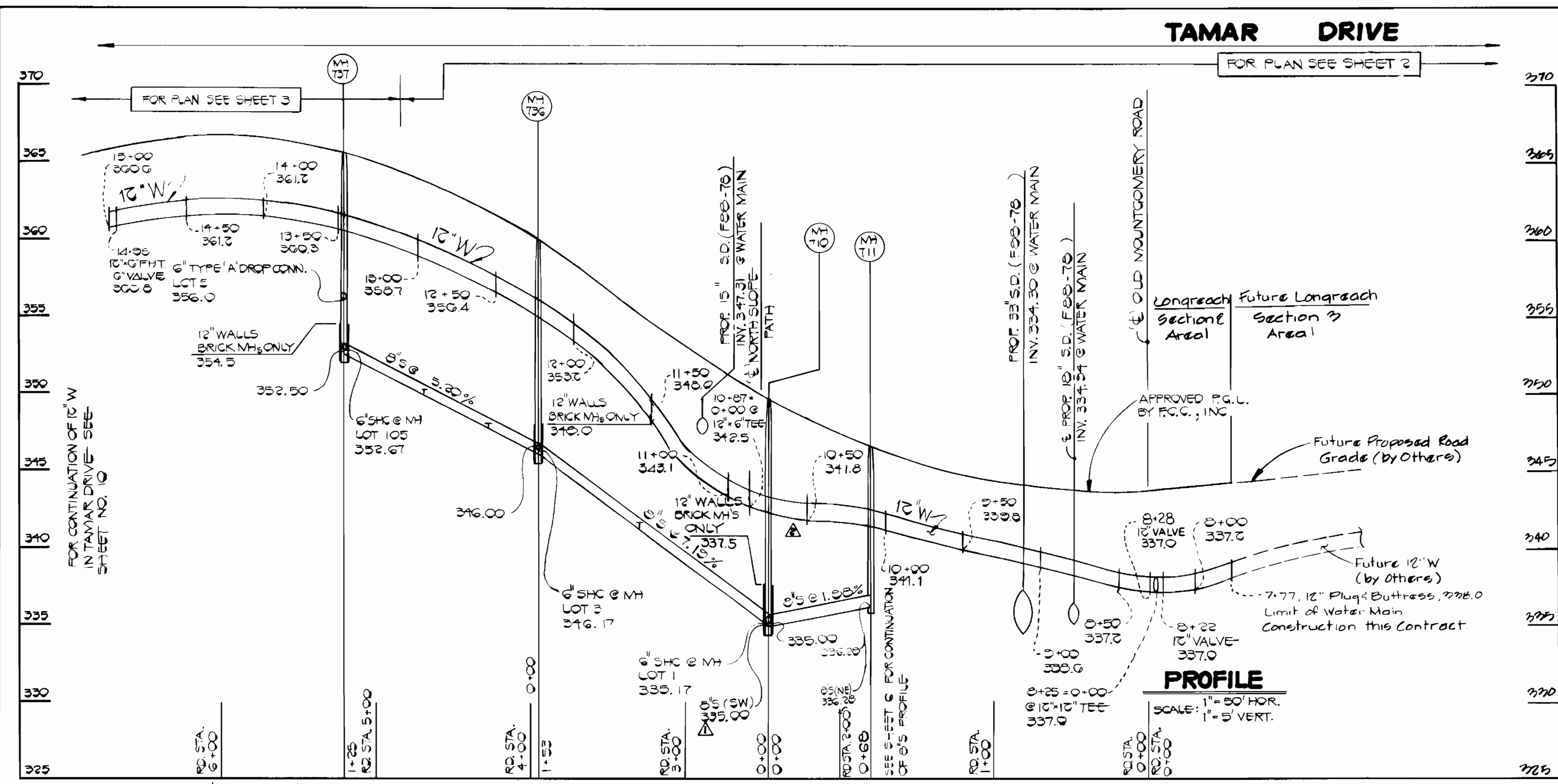
PROFILES
WATER AND SEWER MAINS

600' SCALE MAP NO. 37 BLOCK NO. ...

VILLAGE OF LONGREACH
SECTION 2 AREA 1
CONTRACT NO. 24-1738-D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 11

AS-BUILT 6/9/88



CONTRACT NO. 24-1738-D
 VILLAGE OF LONGREACH
 SECTION 2 AREA 1
 WATER AND SEWER EXTENSION
 HOWARD COUNTY MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James J. ...
 DIRECTOR OF PUBLIC WORKS DATE 1-22-88

Ruth ...
 CHIEF, BUREAU OF UTILITIES DATE 1-22-88

...
 CHIEF, BUREAU OF ENGINEERING DATE 1-22-88

...
 CHIEF, LAND DEVELOPMENT DIVISION DATE 1-22-88

FISHER, COLLINS AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043

Terrell A. Fisher
 TERRELL A. FISHER DATE 1-22-88

DES: D.B.S.				
DRN: D.B.S.				
CHK: T.A.F.	D.A.M.	W.C.F.	ADD PROFILE FOR W1 # 727A, 727 B, 727 C	1-22-88
DATE:	BY	NO.	REVISION	DATE

PROFILES
 WATER AND SEWER MAINS

600' SCALE MAP NO. 37 BLOCK NO. _____

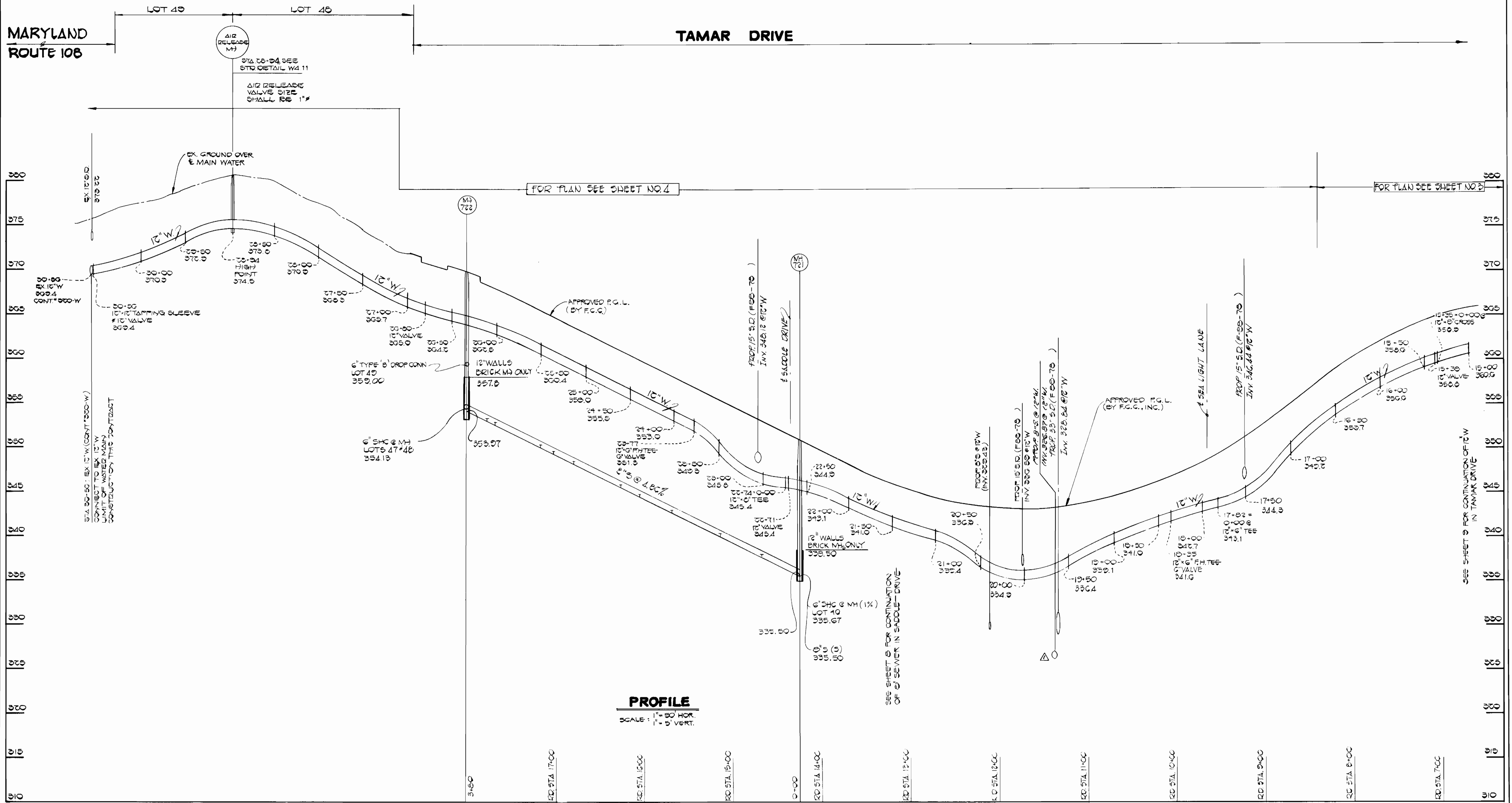
VILLAGE OF LONGREACH
 SECTION 2 AREA 1
 CONTRACT NO. 24-1738-D
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 2 OF 11

6/9/88

MARYLAND
ROUTE 108

TAMAR DRIVE



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

CONTRACT NO. 24-1738-D
VILLAGE OF LONGREACH
SECTION 2 AREA 1
WATER AND SEWER EXTENSION
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 1-22-88
DIRECTOR OF PUBLIC WORKS DATE

[Signature] 1-22-88
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 1-22-88
CHIEF, LAND DEVELOPMENT DIVISION DATE

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043

[Signature]
TERRELL A. FISHER DATE



DES: D.B.S.	
DRN: D.B.S.	
CHK: T.A.F.	
DATE:	
BY: N.O.	
N.O.	
REVISION	
DATE	

PROFILES
WATER AND SEWER MAINS

600' SCALE MAP NO. 37 BLOCK NO.

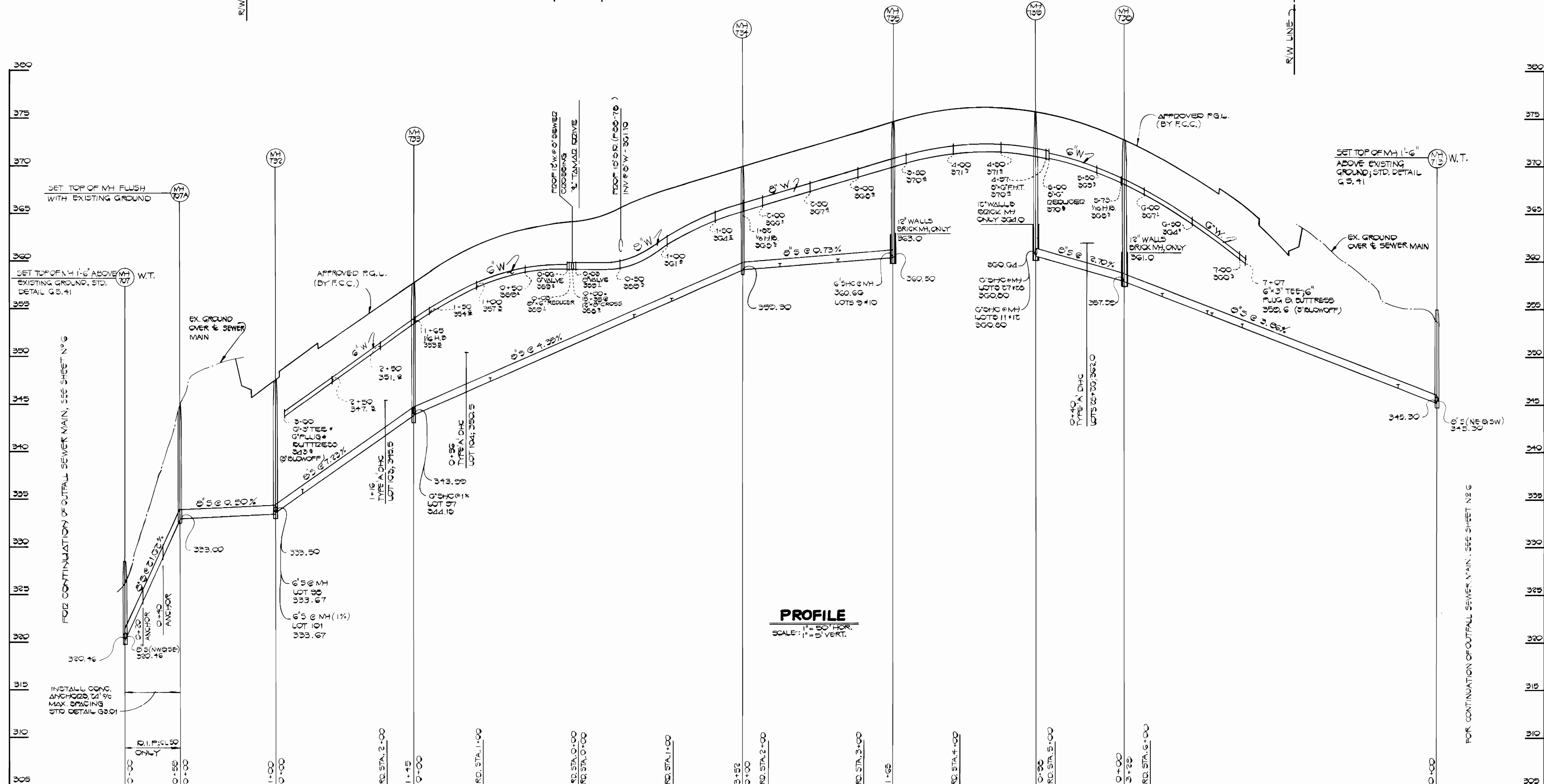
VILLAGE OF LONGREACH
SECTION 2 AREA 1
CONTRACT NO. 24-1738-D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 10 OF 11

6/9/88

LOT 117 OPEN SPACE TIRE DOCK SQUARE TAMAR DRIVE SEA WATER PATH LOT 118 OPEN SPACE

FOR PLAN SEE SHEET NO. 3



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

CONTRACT NO. 24-1738-D
VILLAGE OF LONGREACH
SECTION 2 AREA 1
WATER AND SEWER EXTENSION
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. Lewis 1-22-88
DIRECTOR OF PUBLIC WORKS DATE

Robert M. Benner 1-22-88
CHIEF, BUREAU OF UTILITIES DATE

William S. Kelly 1-22-88
CHIEF, BUREAU OF ENGINEERING DATE

Michael J. ... 1-22-88
CHIEF, LAND DEVELOPMENT DIVISION DATE

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043



DES: D. B. S.			
DRN: D. B. S.			
CHK: T. A. F.			
DATE:	BY:	NO.	REVISION

PROFILES
WATER AND SEWER MAINS

600' SCALE MAP NO. 37 BLOCK NO.

VILLAGE OF LONGREACH
SECTION 2 AREA 1
CONTRACT NO. 24-1738-D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 11 OF 11

BRUNING 69150

01/19/88