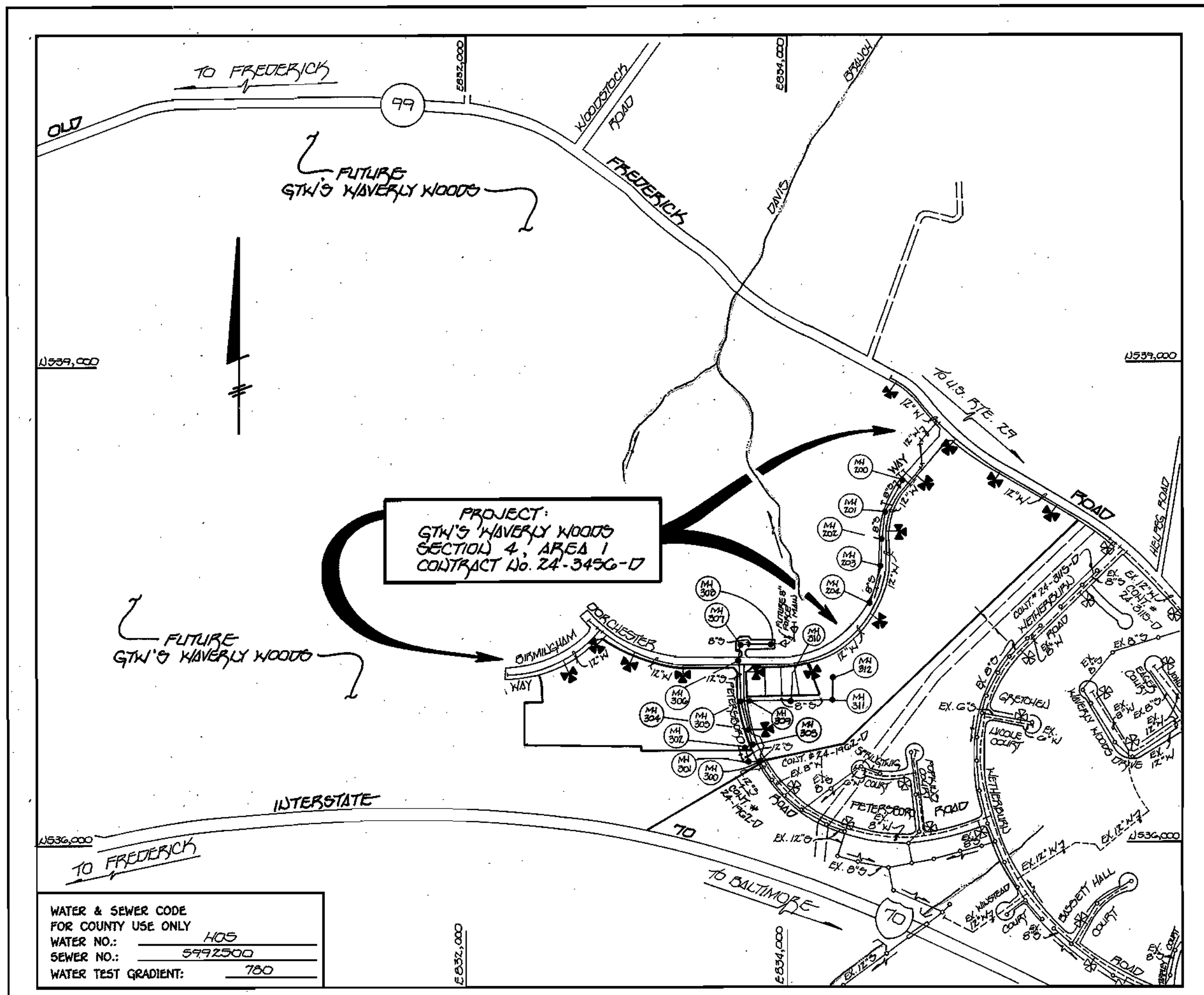


3456 ws/1 GTW'S WAYERLY WOODS, 4/1, lots 1-19, PAR. A-E

QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT	SUPPLIER
12" DENER (CLIP)	100 L.F.	103.50 LF	PVC	BBS/JM MANHOLE
12" DENER (CLIP)	1002 L.F.	998 LF	DIP CL-52	GRIFIN PIPE
8" DENER	902 L.F.	1072 LF	PVC	BBS/JM MANHOLE
8" DENER (CLIP)	594 L.F.	575 LF	CL-52 CL-52	GRIFIN PIPE
MANHOLES	15 EACH	15 EA	PRECAST	ATLANTIC CONC.
4" DENER	671 L.F.	505 LF	PVC	BBS/JM MANHOLE
12" WATER	5,035 L.F.	5632 LF	CL-52	GRIFIN PIPE
8" WATER	1,187 L.F.	1122 LF	CL-52	
6" WATER	468 L.F.	434 LF	CL-52	
FIRE HYDRANT	15 EACH	15 EA	ORANGE	BRESNAN/MULLER
1 1/2" WVC	75 L.F.	92 LF	50" K1	BBS/HOWELL METAL
1" WVC	396 L.F.	471 LF	50" K1	
3/4" WVC	134 L.F.	151 LF	50" K1	
1/4" RELEASE VAL	4 EACH	4 EA	PRECAST	ATLANTIC CONC.
3" BURNOUT	1 EACH	0 EA		
4" WATER	60 L.F.	23 LF	CL-52	GRIFIN PIPE
12" x 12" CPDOD	1 EACH	1 EA		
12" x 8" CPDOD	2 EACH	2 EA		
8" x 8" CPDOD	1 EACH	1 EA		
12" x 12" TEE	1 EACH	1 EA		
12" x 8" TEE	1 EACH	1 EA		
12" x 6" TEE	12 EACH	12 EA		
12" x 4" TEE	3 EACH	2 EA		
8" x 6" TEE	3 EACH	2 EA	CL-52	
12" VALVE	12 EACH	12 EA	GATE	BBS MULLER
8" VALVE	10 EACH	10 EA	GATE	
6" VALVE	15 EACH	15 EA	GATE	
4" VALVE	3 EACH	2 EA	GATE	
12" x 8" FLEXCOU	1 EACH	1 EA	CL-52	GRIFIN PIPE
8" x 8" FLEXCOU	1 EACH	1 EA		
4" x 8" FLEXCOU	1 EACH	0 EA		
12" 7/8 HB	2 EACH	2 EA		
8" 7/8 HB	3 EACH	3 EA		
6" 7/8 HB	1 EACH	1 EA		
6" 1/2 HB	1 EACH	1 EA		
12" PLUG & BUTTRESS	3 EACH	3 EA	CL-52	
6" PLUG & BUTTRESS	6 EACH	6 EA		
6" PLUG & BUTTRESS	1 EACH	1 EA		
4" PLUG & BUTTRESS	2 EACH	3 EA		
105 METER TESTINGS	3 EACH	3 EA	CL-52	



WATER & SEWER CODE FOR COUNTY USE ONLY
 WATER NO.: 5992300
 SEWER NO.: 700
 WATER TEST GRADIENT: 700

TYPE OF BUILDING: RESIDENTIAL
 NUMBER OF LOTS: 24 (11 BUILDABLE)
 NO. OF WATER HOUSE CONNECTIONS: 10 (4/1 FUTURE)
 NO. OF SEWER HOUSE CONNECTIONS: 10 (4/1 FUTURE)
 DRAINAGE AREA: LITTLE PATUXENT
 TREATMENT PLANT: PATAPSCO WASTEWATER TREATMENT PLANT VIA THE ROUTE 100 PUMPING STATION

VICINITY MAP
 SCALE: 1"=600'

PLAN REFERENCE NUMBERS:
 P- 95-07
 F- 95-173

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 ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 8" - CLEAR ALL POLES BY 2'-0" MINIMUM.
- 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 (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S 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 - 850-4620
 - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 787-9068
 - MISS UTILITY - 1-800-257-7777
 - COLONIAL PIPELINE CO. - 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900
- 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- T.B. DENOTES TEST BORING.
- MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52.
- WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.51.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- ALL WATER MAINS SHALL BE D.I.P., CLASS 52 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 ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W1.11 AND W2.13). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, @ (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 10.11(a) OF THE HOWARD COUNTY CODE.

ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION & SEDIMENT CONTROL REPRESENTS A PRACTICAL & WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS & THAT IT HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 Paul W. Koidl 02/21/96
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT & PLAN FOR EROSION & SEDIMENT CONTROL & THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION & SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS THEY DEEMED NECESSARY.
 Michael J. McCann for LDD, INC. 2/21/96
 SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MOST TECHNICAL REQUIREMENTS.
 J.A. Warfield 3/1/96
 U.S. Natural Resources Administration Service DATE

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

APPROVED:
 John R. Robinson 3/1/96
 HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS.
 Michael J. McCann for LDD, INC. 2/21/96
 SIGNATURE OF DEVELOPER DATE

CONTRACT No. 24-3456-D
GTW'S WAYERLY WOODS
SECTION 4, AREA 1
LOT NOS. 1-23 & PARCELS A,B,D & E
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

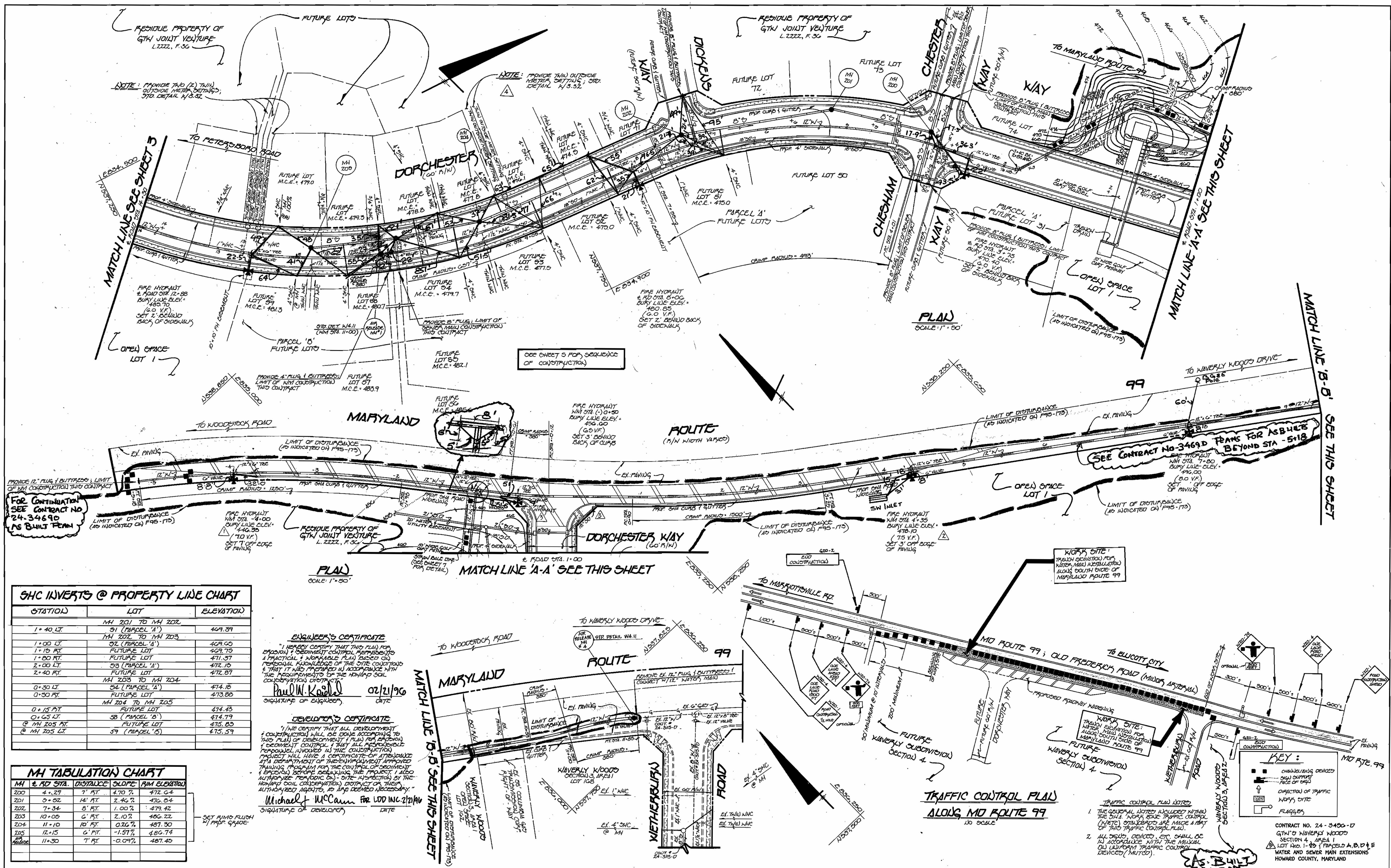
No.	DESCRIPTION
1	TITLE SHEET
2	PLAN: MARYLAND ROUTE 99 & DORCHESTER WAY
3	PLAN: DORCHESTER WAY & PETERSBORO ROAD
4	PLAN & PROFILE: BIRMINGHAM WAY
5	PROFILE: MARYLAND ROUTE 99
6	PROFILE: DORCHESTER WAY
7	PROFILE: DORCHESTER WAY
8	PROFILE: PETERSBORO ROAD

AS-BUILT

CONTRACT NO. 24-3456-D
 GTW'S WAYERLY WOODS
 SECTION 4, AREA 1
 LOT NOS. 1-23 & PARCELS A, B, D & E
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND	Fisher, Collins & Carter, Inc. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS 10212 BALTIMORE AVENUE, SUITE 100 BLOOMING GATE, MARYLAND 20742 (410) 461-2850	DES: M.J.M. DRAWN: J.H.M. CHK: P.W.K. DATE: MAY 97	REVISIONS: 1. REVISE CONTRACT TITLE TO REFLECT RESULTS OF PARCEL 'C' 5/9/96 2. DELETE OUTSIDE METER TESTINGS & QUALITY 5/9/96	TITLE SHEET	GTW'S WAYERLY WOODS SECTION 4, AREA 1 LOT NOS. 1-23 & PARCELS A, B, D & E CONTRACT NO. 24-3456-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 OF 8
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3456 WS/2 GTW'S WAVERLY WOODS



SHC INVERTS @ PROPERTY LINE CHART

STATION	LOT	ELEVATION
1+40 LT.	MH 201 TO MH 202 51 (PARCEL 'A')	469.39
1+00 LT.	MH 202 TO MH 203 32 (PARCEL 'A')	469.60
1+15 FT.	FUTURE LOT	471.37
1+80 FT.	03 (PARCEL 'A')	472.10
2+00 LT.	FUTURE LOT	472.87
0+30 LT.	MH 203 TO MH 204 54 (PARCEL 'A')	474.16
0+50 FT.	FUTURE LOT	473.88
0+15 FT.	FUTURE LOT	474.43
0+63 LT.	58 (PARCEL 'B')	474.79
@ MH 205 FT.	FUTURE LOT	475.60
@ MH 205 LT.	59 (PARCEL 'B')	475.59

MH TABULATION CHART

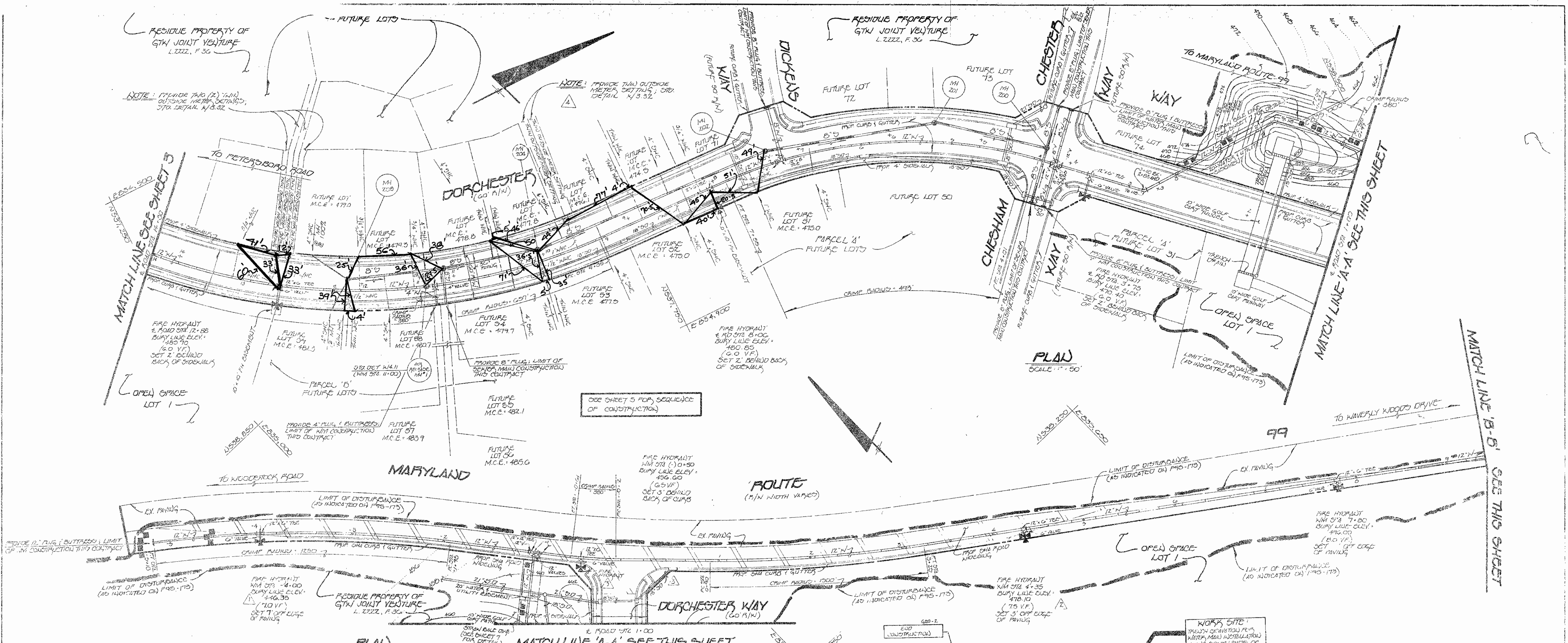
MH #	AD STA.	DISTANCE	SLOPE	RM ELEVATION
200	4+29	7' FT.	4.70%	472.64
201	5+52	14' FT.	2.46%	470.64
202	7-34	8' FT.	1.00%	479.42
203	10+00	6' FT.	2.10%	486.22
204	11+10	10' FT.	0.26%	487.30
205	12+15	6' FT.	-1.51%	486.74
206	11+30	7' FT.	-0.09%	487.40

ENGINEER'S CERTIFICATE
I HEREBY CERTIFY THAT THIS PLAN FOR...
Paul W. Keadle
02/21/96

DEVELOPER'S CERTIFICATE
I HEREBY CERTIFY THAT ALL DEVELOPMENT...
Michael J. McCann FOR LOD INC. 2/21/96

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Chief, Bureau of Utilities 2-27-96	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND Chief, Development Engineering Division 2/27/96	Fisher, Collins & Carter, Inc. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK 10225 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21042 (410) 461-2855	DES: M.J.M. DRAWN: J.M.M. CHK: P.W.K. DATE:	PULL: REVISE CONTRACT TITLE TO REFLECT REBID OF PARCEL 'C' F.C.C.: ADD THREE (3) FEET OUTSIDE METERS DETAILING W/1" W/4" W/1" W/4" F.C.C.: REVISE FIRE HYDRANT & WATER MAIN DETAILING TO W/1" W/4" W/1" W/4" F.C.C.: REVISE BURY LINE ELEV. FOR P.H. & STA. 4+35 PER FIELD CONDITIONS F.C.C.: REVISE BURY LINE ELEV. FOR P.H. & STA. 4+35 PER FIELD CONDITIONS	8/9/94 8/9/94 12/94 12/94	WATER AND SEWER MAINS PLAN VIEW 600' SCALE MAP NO. 16 BLOCK NO. 6 & 12	GTW'S WAVERLY WOODS SECTION 4, AREA 1 LOT 100, 1-25 AND PARCELS A, B, D & E CONTRACT NO. 24-345C-17 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE AS SHOWN SHEET 2 OF 8
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2700 W/2 GTW'S WAVERLY WOODS



SHC INVERTS @ PROPERTY LINE CHART

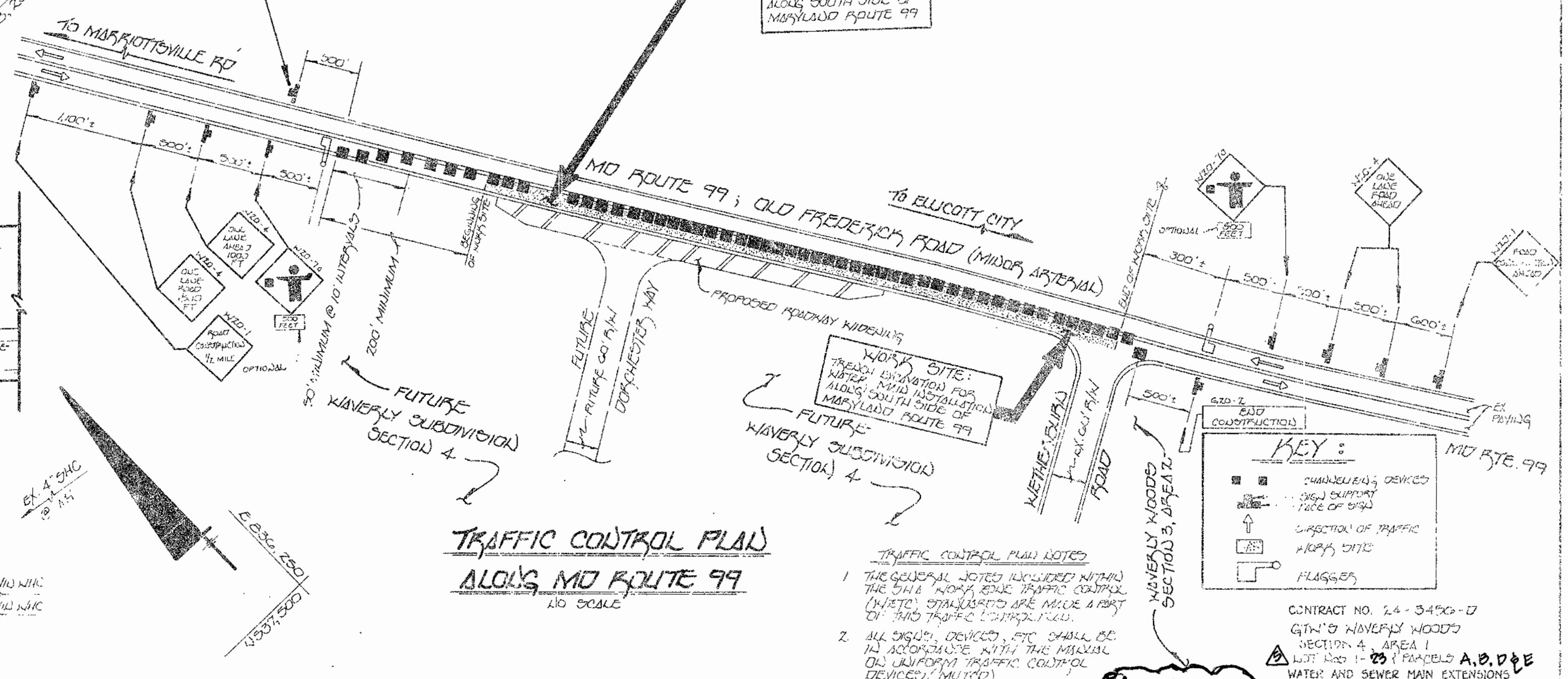
STATION	LOT	ELEVATION
7+40.00	MH 201 TO MH 202	464.39
1+00.00	51 (PARCEL 'A')	469.00
1+15.00	MH 202 TO MH 203	469.75
1+30.00	52 (PARCEL 'B')	471.37
2+00.00	FUTURE LOT	471.75
2+25.00	53 (PARCEL 'C')	472.87
2+50.00	FUTURE LOT	474.10
3+00.00	MH 203 TO MH 204	473.28
3+15.00	54 (PARCEL 'D')	474.43
3+30.00	FUTURE LOT	474.79
3+45.00	MH 204 TO MH 205	475.80
3+60.00	55 (PARCEL 'E')	476.89
3+75.00	FUTURE LOT	477.59

MH TABULATION CHART

MH	R.D. STA.	DISTANCE	SLOPE	RISE	FIN ELEVATION
200	4+23	7' AT	2.10%	1.47	472.04
201	9+52	14' AT	2.46%	3.44	475.48
202	7+24	8' AT	1.00%	0.80	479.42
203	10+25	6' AT	2.10%	1.26	480.22
204	11+10	10' AT	0.70%	0.70	481.30
205	12+15	6' AT	-1.57%	-0.94	480.36
206	11+30	7' AT	-0.57%	-0.40	480.96

ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN AND SPECIFICATIONS AND ALL NECESSARY PERMITS AND FEES HAVE BEEN OBTAINED AND THAT THE WORK IS BEING DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DEVELOPER'S CERTIFICATE
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THE PLAN AND SPECIFICATIONS AND THAT ALL NECESSARY PERMITS AND FEES HAVE BEEN OBTAINED AND THAT THE WORK IS BEING DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

Fisher, Collins & Carter, Inc.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 10722 BELLHURST NATIONAL PARK
 BELLHURST CITY, MARYLAND 21042
 (410) 461-2555

9757
 TERRELL A. FISHER

DES: H.J.M.
 DRN: J.H.M.
 CHK: P.W.K.
 DATE:

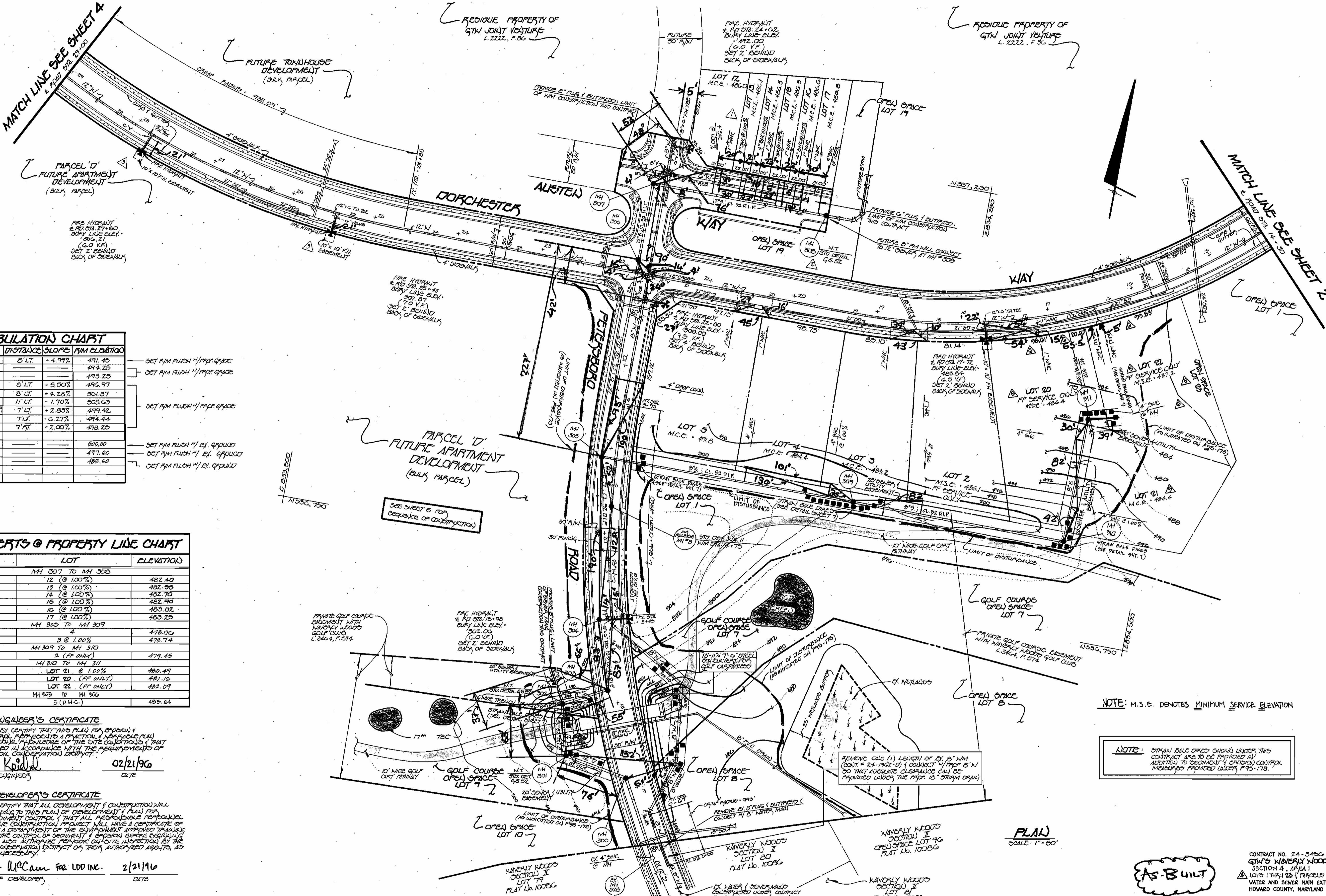
REVISION
 1. REMOVE CONTRACT TITLE TO REFLECT REBID OF PARCEL 'D' 5/19/04
 2. ADD THREE (3) FEET OUTSIDE METERS SETTINGS 5/17/04
 3. REMOVE R.D. STATION 11+10 ON MD R99 TO 11+15 TO REFLECT REBID 5/17/04
 4. ADD BURNING PILE TRAIL AND SET IDEAL REGULATED
 5. REMOVE BURNING PILE TRAIL AND SET IDEAL REGULATED
 6. REMOVE BURNING PILE TRAIL AND SET IDEAL REGULATED

WATER AND SEWER MAINS
 PLAN VIEW
 600' SCALE MAP NO. 16
 BLOCK NO. 6 & 12

GTW'S WAVERLY WOODS
 SECTION 4, AREA 1
 CONTRACT NO. 24-345G-D (WATER) 2A OF 8
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE
 1" = 50'
 SHEET
 2A OF 8

3456 WS/3 GTW'S WAVERLY WOODS



MH TABULATION CHART

MH #	FEET STA.	DISTANCE	SLOPE	RIM ELEVATION
300	17+13	5' LT.	+4.94%	491.45
301				494.25
302				493.25
303	18+16	5' LT.	+5.50%	496.97
304	19+00	5' LT.	+4.28%	501.37
305	20+02	11' LT.	-1.70%	503.63
306	21+00	7' LT.	+2.83%	499.42
307	24+10	7' LT.	-0.21%	494.44
308	1+72	7' RT.	+2.00%	498.20
309				500.00
310				497.60
311				489.60

SET RIM FLUSH W/ PROP. GRADE
 SET RIM FLUSH W/ PROP. GRADE
 SET RIM FLUSH W/ PROP. GRADE
 SET RIM FLUSH W/ EX. GROUND
 SET RIM FLUSH W/ EX. GROUND
 SET RIM FLUSH W/ EX. GROUND

SHC INVERTS @ PROPERTY LINE CHART

STATION	LOT	ELEVATION
0+70 LT.	MH 307 TO MH 305	482.40
1+00 LT.	12 (@ 100%)	482.55
1+20 LT.	13 (@ 100%)	482.70
1+45 LT.	14 (@ 100%)	482.90
1+65 LT.	15 (@ 100%)	483.02
1+97 LT.	16 (@ 100%)	483.25
1+70 LT.	MH 305 TO MH 307	478.02
2+70 LT.	3 @ 1.00%	478.74
0+80 LT.	MH 309 TO MH 310	479.45
0+40 RT.	MH 310 TO MH 311	480.49
1+20 LT.	LOT 21 @ 1.00% (FF ONLY)	481.16
0+141 RT.	LOT 22 (FF ONLY)	482.09
1+00 LT.	MH 305 TO MH 306	485.64

ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR SEWERAGE & GOLF COURSE DEVELOPMENT IS A PRACTICAL & WORKABLE PLAN BASED ON REASONABLE ASSUMPTIONS OF THE SITE CONDITIONS & THAT IT HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Paul W. Koidl 02/21/96
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
 I HEREBY CERTIFY THAT ALL DEVELOPMENT & CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT & THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A CERTAINITY OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS MAY BE REQUIRED HEREINAFTER.
 Michael J. McCann for LDD INC. 2/21/96
 SIGNATURE OF DEVELOPER DATE

NOTE: M.S.E. DENOTES MINIMUM SERVICE ELEVATION

NOTE: STRAIN BALE PILES SHOULD BE UNDER THIS CONTRACT ARE TO BE PROVIDED IN ADDITION TO SECTION 11 (CROWN) CONTROL MEASURED PROVIDED UNDER 175-173.

PLAN
 SCALE: 1" = 50'

AS-BUILT

CONTRACT NO. 24-3456-D
 GTW'S WAVERLY WOODS
 SECTION 4, AREA 1
 LOTS 1 THRU 23 (PARCELS A, B, D & E)
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert Sawyer 2-27-96
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 [Signature] 2/21/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

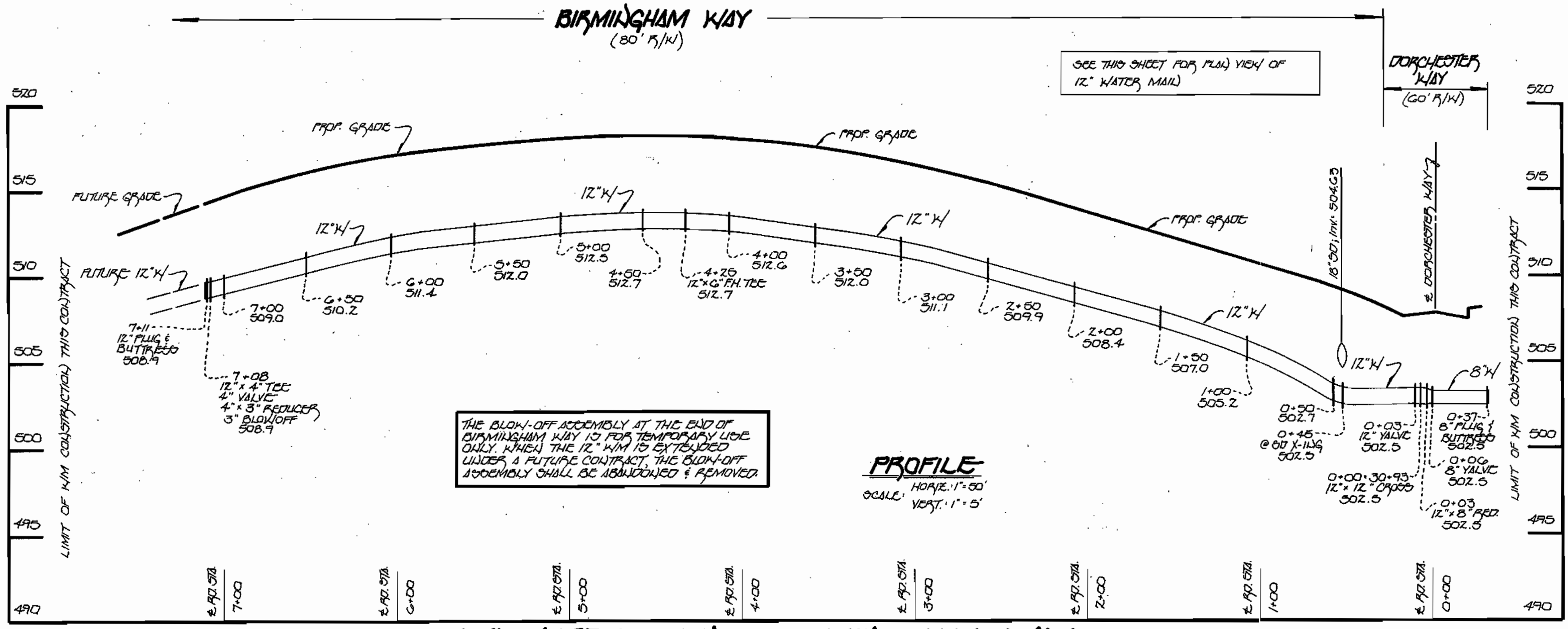
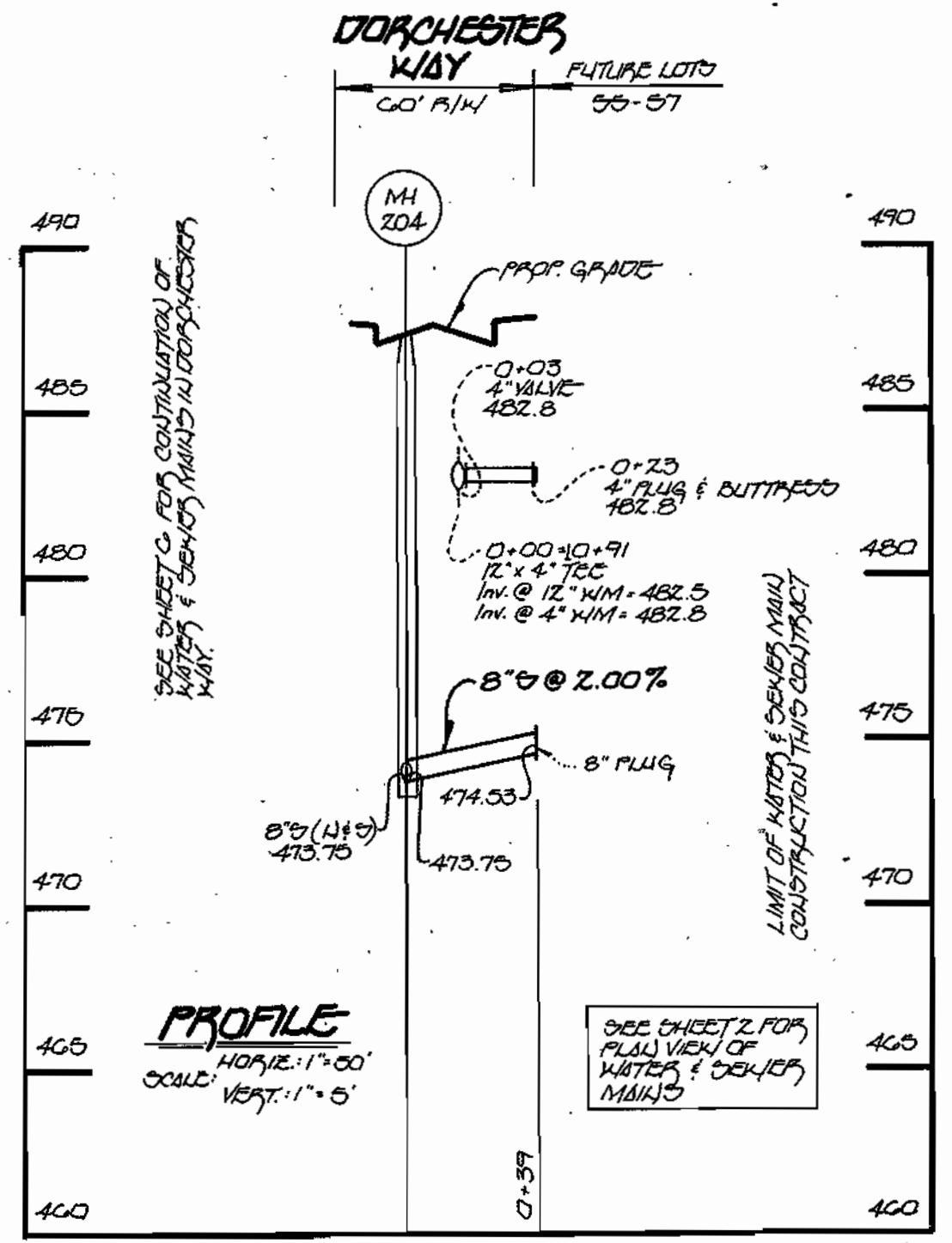
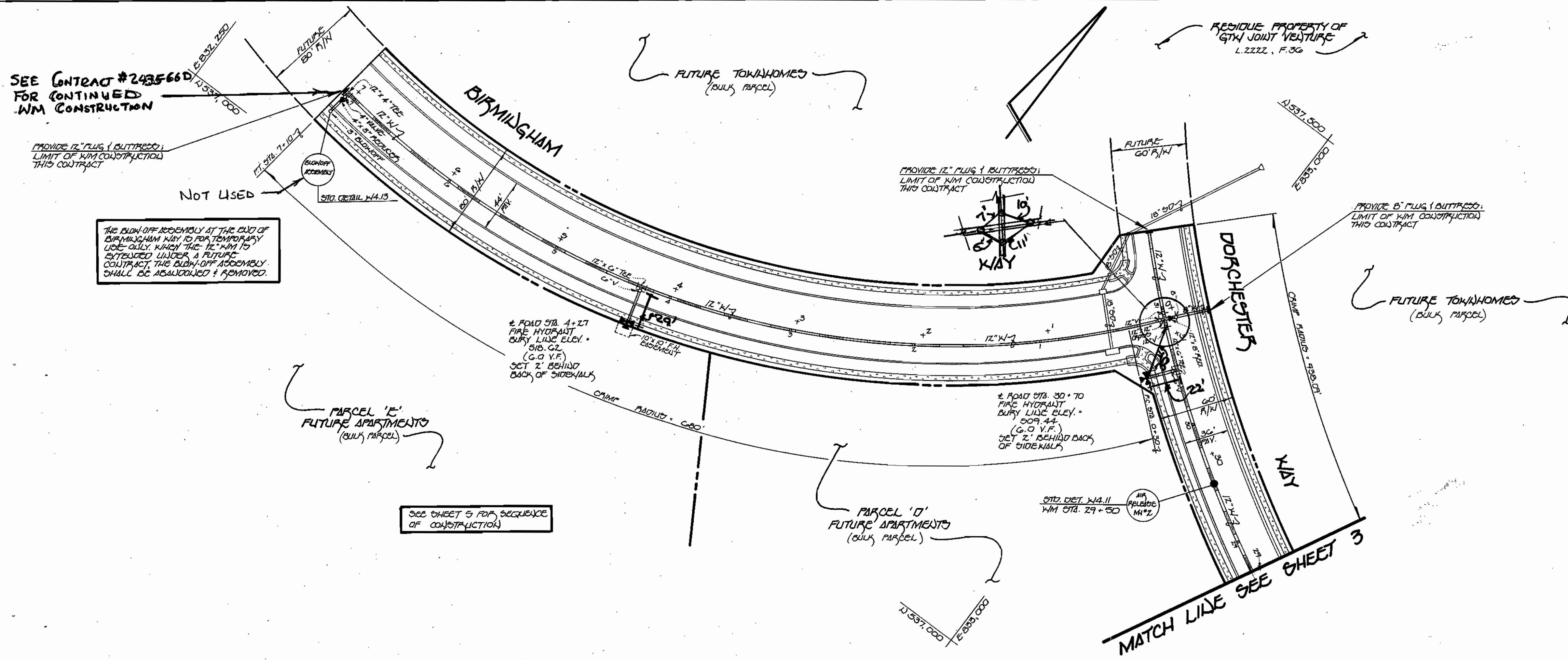
Fisher, Collins & Carter, Inc.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE SUITE 1007E
 1007E BALTIMORE NATIONAL PIKE
 BILLYOTT CITY, MARYLAND 21042
 (410) 461-2350
 TERRELL A. FISHER

DES.	DATE	BY	NO.	REVISION
P.L.L.	9/9/04			REMOVE LOT CONSTRUCTION & INDICATE FRONT FOOTAGES
P.L.L.	9/9/04			REMOVE LOT NUMBERS FOR CONSISTENCY WITH LDD PLAN
P.L.L.	9/9/04			REMOVE CONTRACT TITLE TO REFLECT REBID OF PARCEL C
F.C.C.	12/96			RELOCATE (2) FIRE HYDRANTS ALONG DORCHESTER WAY (PARCEL 10)
F.C.C.	12/96			MAKE MH # 308 WATER TIGHT (STD. DETAIL 9.5.52)
F.C.C.	12/96			REVISE NACS FOR LOT 105, 12-17, THESE NACS SHALL BE 1"

WATER AND SEWER MAINS
 PLAN VIEW
 600' SCALE MAP NO. 16 BLOCK NO. 6 & 12

GTW'S WAVERLY WOODS
 SECTION 4, AREA 1
 LOTS 1 THRU 23 (PARCELS A, B, D & E)
 CONTRACT NO. 24-3456-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 3 OF 8
 GTW.DWG

3456 ws/4 GTW's WAVERLY WOODS



ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR EXPOSURE & SEGMENT CONTROL REPRESENTS A PRACTICAL & FEASIBLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS & THAT IT HAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Paul W. Keidel 02/21/96
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT & CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT & PLAN FOR EXPOSURE & SEGMENT CONTROL & THAT ALL PROVISIONS PROPOSED (REQUIRED) IN THE CONSTRUCTION PROJECT WILL HAVE CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORITY FOR PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 Michael J. McCann P.R. LDD INC. 2/21/96
 SIGNATURE OF DEVELOPER DATE

**4" WATER & 8" SEWER MAINS:
 FUTURE LOTS 55 - 57**

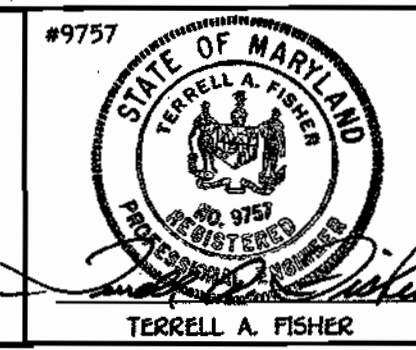
12" WATER MAIN: BIRMINGHAM WAY

AS BUILT

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert [Signature] 2-27-96
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 [Signature] 3/4/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Fisher, Collins & Carter, Inc.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PLAZA
 10217 BALTIMORE NATIONAL PIKE
 BLOOMING CITY, MARYLAND 21042
 (410) 461-2888



DES: M.J.M.	
DRWN: J.M.M.	
CHK: P.M.K.	
DATE: 5/3/94	
BY: [Signature]	NO. [Signature]
REVISION	DATE

WATER AND SEWER MAINS
 600' SCALE MAP NO. 16 BLOCK NO. 6 & 12

GTW'S WAVERLY WOODS
 SECTION 4, AREA 1
 LOT Nos. 1-23 AND PARCELS A, B, D & E
 CONTRACT NO. 24-3456-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 4 OF 8
 GTW.DWG

34560 WS/5 GTW'S WAVERLY WOODS

EROSION AND SEDIMENT CONTROL NOTES

- 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.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS.
- ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE SEWER MAIN TRENCH.
- IMMEDIATELY FOLLOWING BACKFILL OF THE SEWER MAIN TRENCH, ALL DISTURBED AREAS ARE TO BE STABILIZED AND SEEDING NOTES SHOWN ON THIS SHEET.
- THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES AND PROVIDE ARE IN OPERATIVE CONDITION.
- ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. SEE SEWER MAIN CONSTRUCTION SEQUENCE THIS SHEET.

SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (315-1955).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) SEVEN (7) CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL GREATER THAN 3:1; b) FOURTEEN (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BERMS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, FOR PERMANENT SEEDINGS (SEC. 20 & 500 SEC. 24), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:

TOTAL AREA OF SITE	70.87 ACRES
AREA DISTURBED	6.00 ACRES
AREA TO BE ROOFED OR PAVED	5.00 ACRES
AREA TO BE VEGETATIVELY STABILIZED	3.50 ACRES
TOTAL CUT	30,000 CU.YDS.
TOTAL FILL	30,000 CU.YDS.
OFF-SITE WASTE/BORROW	-0- CU.YDS.
AREA LOCATION (NOT APPLICABLE)	-0- CU.YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF TWO (2) ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

PERMANENT SEEDING NOTES

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

SEEDBED PREPARATION:
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS:
APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1,000 SQ.FT.) AND 500 LBS. PER ACRE 0-20-20 FERTILIZER (14 LBS./1,000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE 10-05 LBS./1,000 SQ.FT.) OF WEEPING LOVEGRASS.

SEEDING:
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15TH, SEED WITH 100 LBS. PER ACRE (2.3 LBS./1,000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS./ACRE (1.4 LBS./1,000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE 10-05 LBS./1,000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROJECT SITE BY: OPTION (1) TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING; OPTION (2) USE 500 GALLONS PER ACRE (5 GALLONS/ACRE) OF EMULSIFIED ASPHALT ON SLOPES 8 FEET OR HIGHER; OPTION (3) USE 348 GALLONS PER ACRE (3.48 GALLONS/1,000 SQ.FT.) FOR ANCHORING.

MULCHING:
APPLY 1 1/2 TO 2 TONS PER ACRE (10 TO 90 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHORING TOOL OR 289 GALLONS PER ACRE (5 GALLONS/1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON SLOPES 8 FEET OR HIGHER USE 348 GALLONS PER ACRE (3.48 GALLONS/1,000 SQ.FT.) FOR ANCHORING.

MAINTENANCE:
INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION:
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS:
APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1,000 SQ.FT.)

SEEDING:
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 17 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./ACRE OF WEEPING LOVEGRASS (0.7 LBS./1,000 SQ.FT.) FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SO2.

MULCHING:
APPLY 1 1/2 TO 2 TONS PER ACRE (10 TO 90 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHORING TOOL OR 289 GALLONS PER ACRE (5 GALLONS/1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (3.48 GALLONS/1,000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEQUENCE OF CONSTRUCTION

- OBTAIN THE REQUIRED GRADING PERMIT.
- NOTIFY MISS UTILITY 48 HOURS BEFORE BEGINNING ANY WORK (8-800-257-7777). NOTIFY HOWARD COUNTY CONSTRUCTION/INSPECTION DIVISION 24 HOURS BEFORE STARTING ANY WORK (410-315-1870).
- INSTALL THE REQUIRED SEDIMENT AND EROSION CONTROL DEVICES AS INDICATED ON THE PLAN SHEETS.
- THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON ALL SEDIMENT AND EROSION CONTROL DEVICES AFTER EACH RAINFALL AND ON A DAILY BASIS.
- CLEAR AND GRUB AS NECESSARY; ONLY AS REQUIRED FOR EXCAVATION AND INSTALLATION OF THE WATER MAIN AND SEWER MAIN AND ONLY WITHIN THE DESIGNATED EASEMENTS.
- INSTALL WATER AND SEWER MAINS.
- NOTE: THE LENGTH OF OPEN WATER AND SEWER MAIN TRENCH SHALL BE LIMITED TO THREE (3) PIPE LENGTHS OR THAT WHICH WILL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- STABILIZE SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES SHOWN ON THIS SHEET.
- FOLLOWING SUCCESSFUL STABILIZATION OF ALL DISTURBED AREAS, AND AFTER PERMISSION HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES.

DEVELOPER'S CERTIFICATION

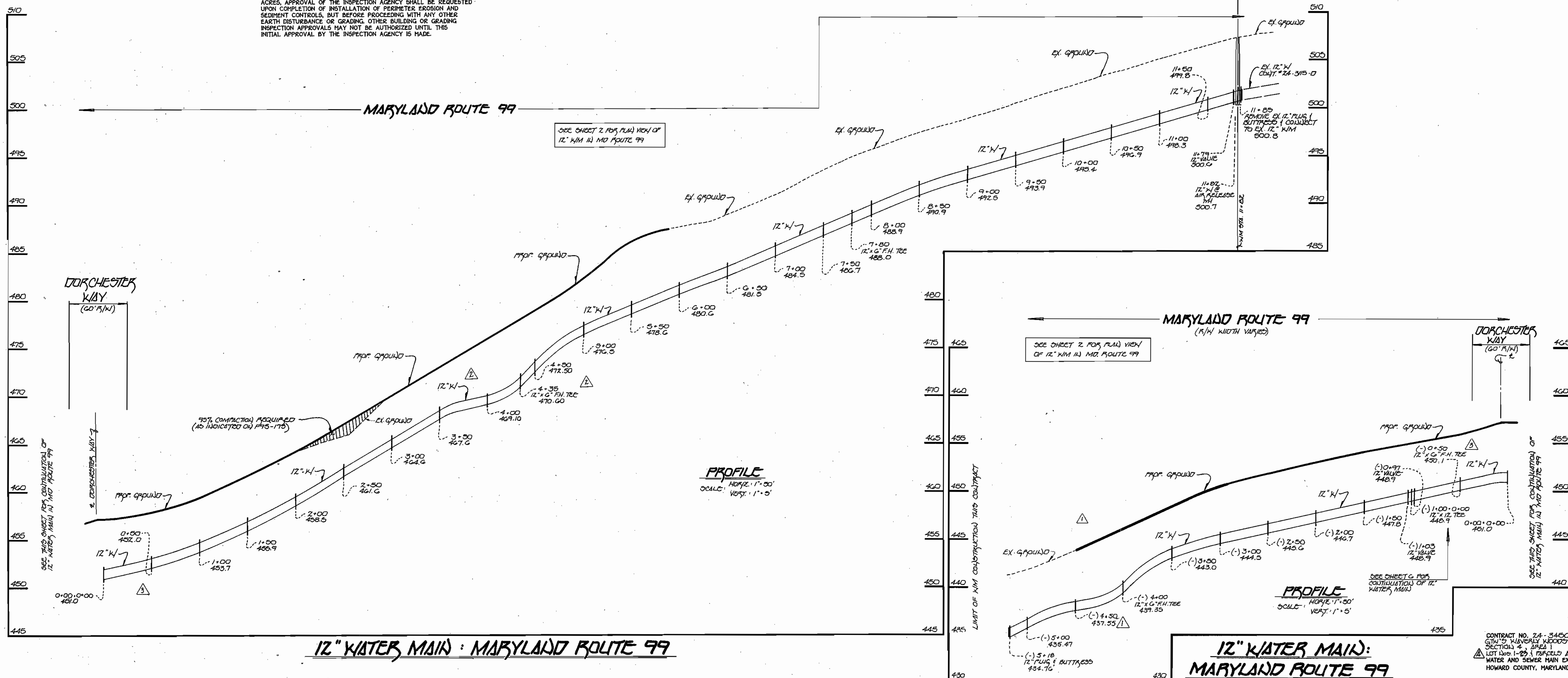
I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Michael J. McKim for G.W.W. 2/21/96
SIGNATURE OF DEVELOPER DATE

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

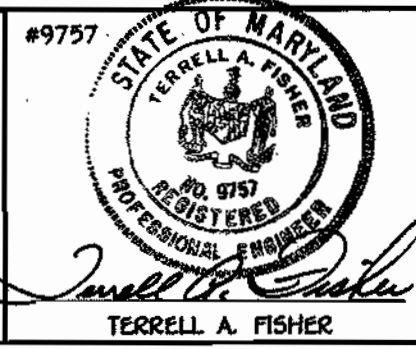
Paul W. Keibel 02/21/96
SIGNATURE OF ENGINEER DATE



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
R. J. ... 2-27-96
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
H. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Fisher, Collins & Carter, Inc.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRALVILLE SQUARE OFFICE PARK
10722 EASTWIND DR. WINDY HILLS, MARYLAND 21094
BLUDDY CITY, MARYLAND 21042
(410) 461-2850

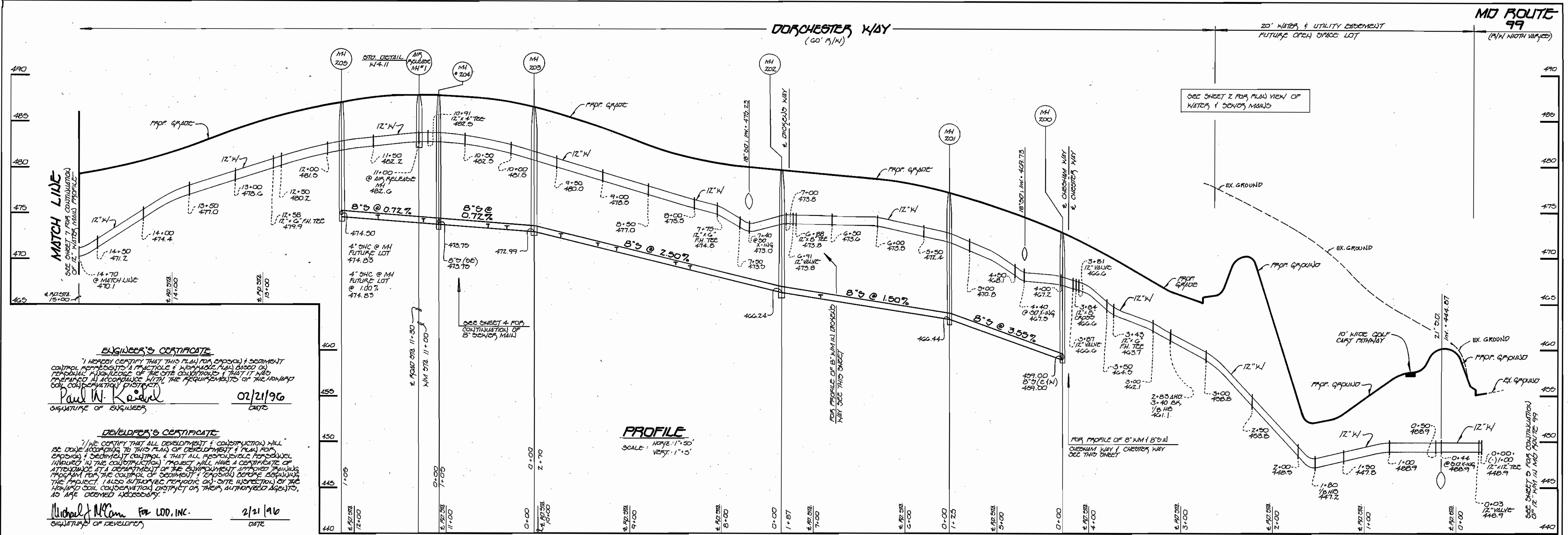


DES:	M.J.M.				
DRAWN:	J.M.M.	P.W.K.	RENAME CONTRACT TITLE TO REFLECT REVNO OF PARCEL 'C'	8/3/94	
CHK:	P.W.K.	F.C.C.	REVISE 12" X 6" FH TREE LOCATION (FROM STA. 0+35 TO STA. (10+30))	12/96	
DATE:		F.C.C.	REVISE N/M PROFILE TO REFLECT REMOVED CURB LINE ELEVATION	12/96	
		F.C.C.	REVISE GROUND OVER & N/M PROFILE FOR AS-BUILT CONDITIONS	12/96	
BY:	NO.	REVISION		DATE	

WATER AND SEWER MAINS PROFILES
600' SCALE MAP NO. 16 BLOCK NO. 6 & 12

GTW'S WAVERLY WOODS
SECTION 4, AREA 1
LOT Nos. 1-29 AND PARCELS A, B, D & E
CONTRACT NO. Z4-345C-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 5 OF 8
GTW.DWG

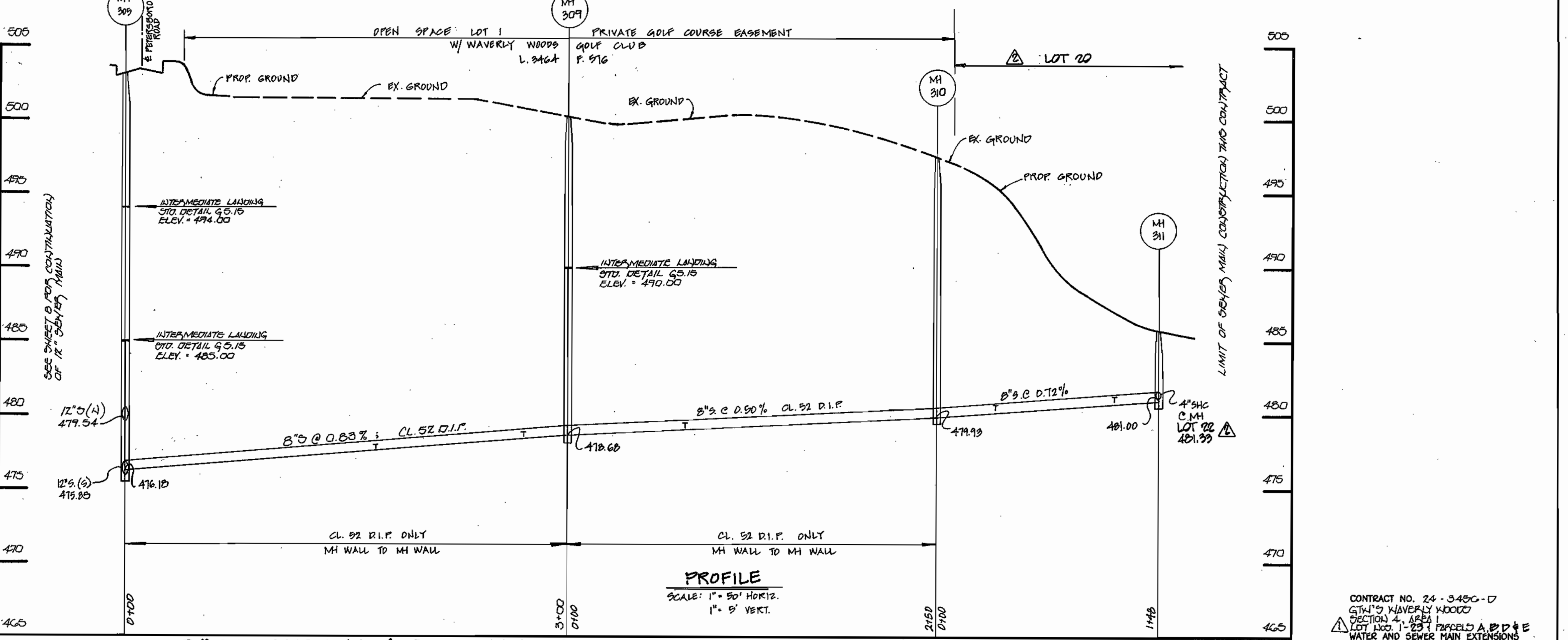
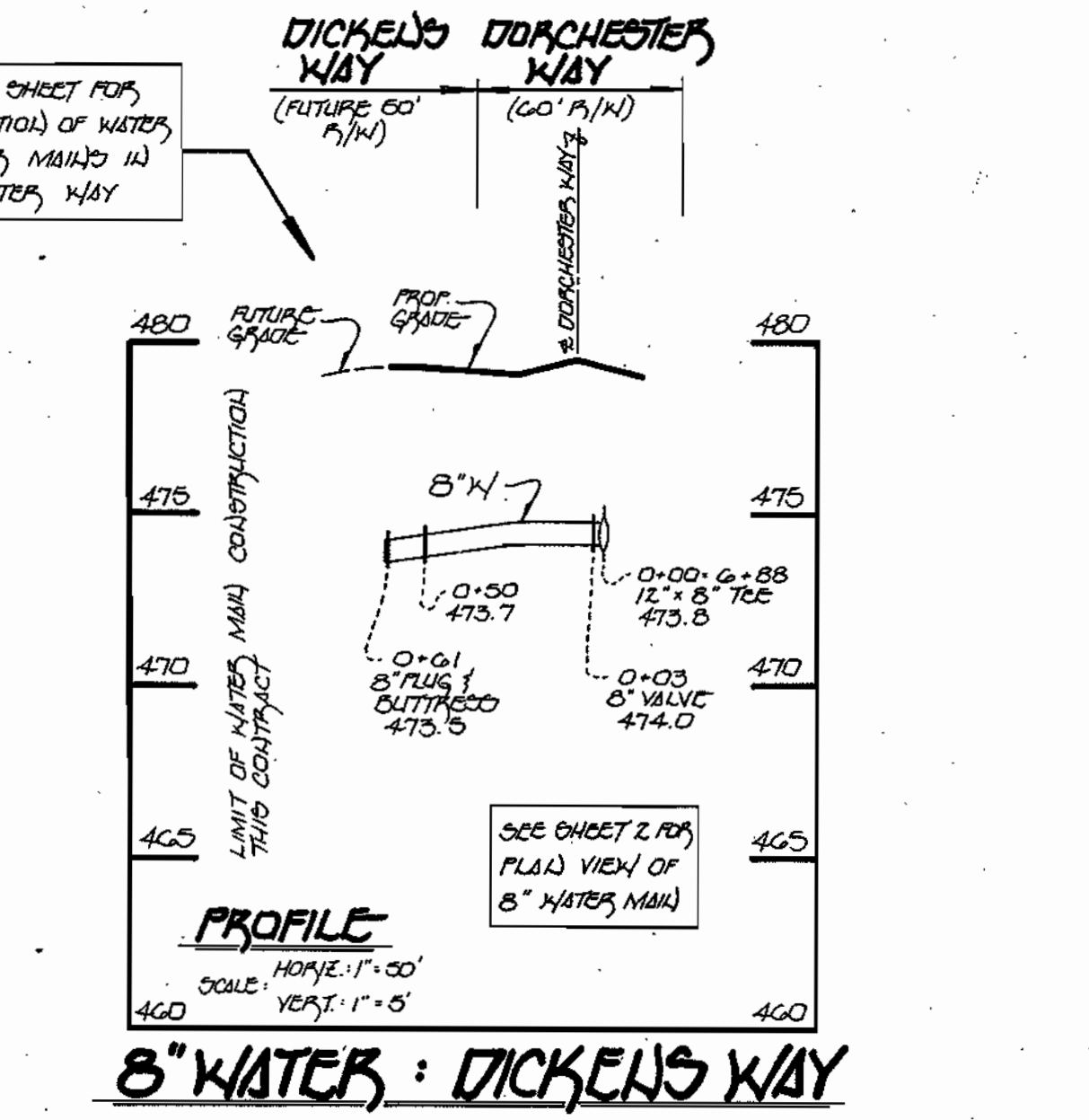
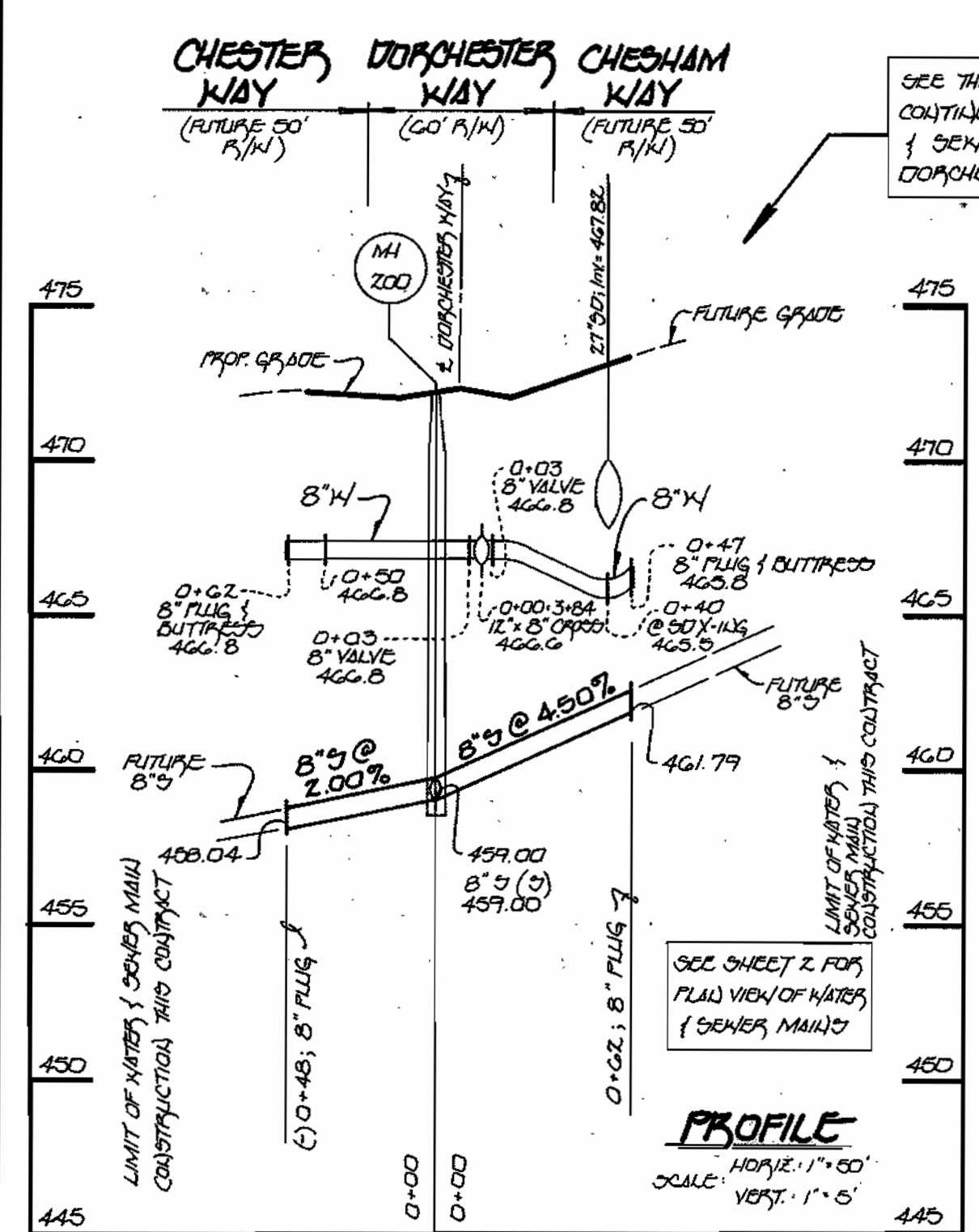
3456 ws/6 GTW's WAVERLY WOODS



ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR SEWER & SEDIMENT CONTROL APPROPRIATE TO THIS PLAN OF DEVELOPMENT IS BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HANOVER COIL CONSERVATION DISTRICT.
 Paul W. Keenan 02/21/96
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
 I HEREBY CERTIFY THAT ALL DEVELOPMENT & CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT & THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENTION FROM THE DEPARTMENT OF ENVIRONMENT & PLANNING PROGRAM FOR THE CONTROL OF SEDIMENT, ENDED BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HANOVER COIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS MAY BE DEEMED NECESSARY.
 Michael J. McCom For LDD, INC. 2/21/96
 SIGNATURE OF DEVELOPER DATE

12" WATER MAIN & 8" SEWER MAIN: DORCHESTER WAY



8" WATER & 8" SEWER: CHESHAM WAY & CHESTER WAY

8" WATER: DICKENS WAY

8" SEWER MAIN OUTFALL THRU GOLF COURSE OPEN SPACE LOT I

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 R.L. S... 2-27-96
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 H...
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Fisher, Collins & Carter, Inc.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK
 10277 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (301) 461-2800



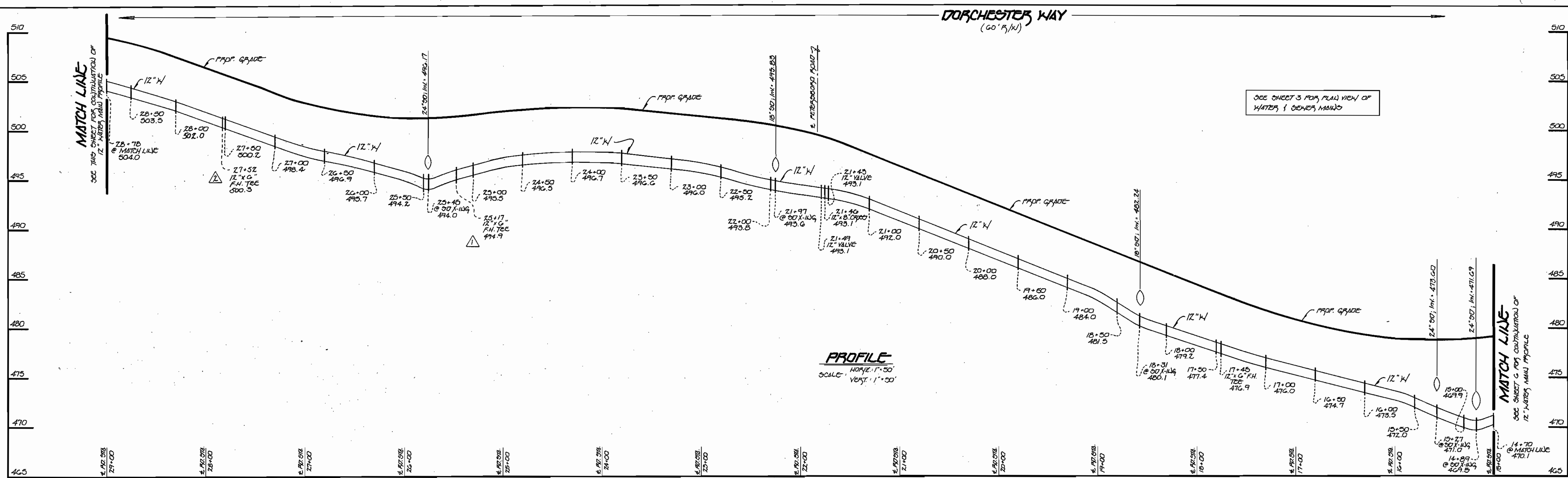
DES: M.J.H.			
DRWN: J.M.H.			
CHK: P.W.K.	P.W.K.	REVISE LOT NO'S FOR CONSISTENCY W/ RECORDED PLAT	9/9/01
DATE:	P.W.K.	REVISE CONTRACT TITLE TO REFLECT REBAND OF PARCEL 'C'	9/9/01
BY NO.		REVISION	DATE

WATER AND SEWER MAINS PROFILES
 600' SCALE MAP NO. 16 BLOCK NO. 6 & 12

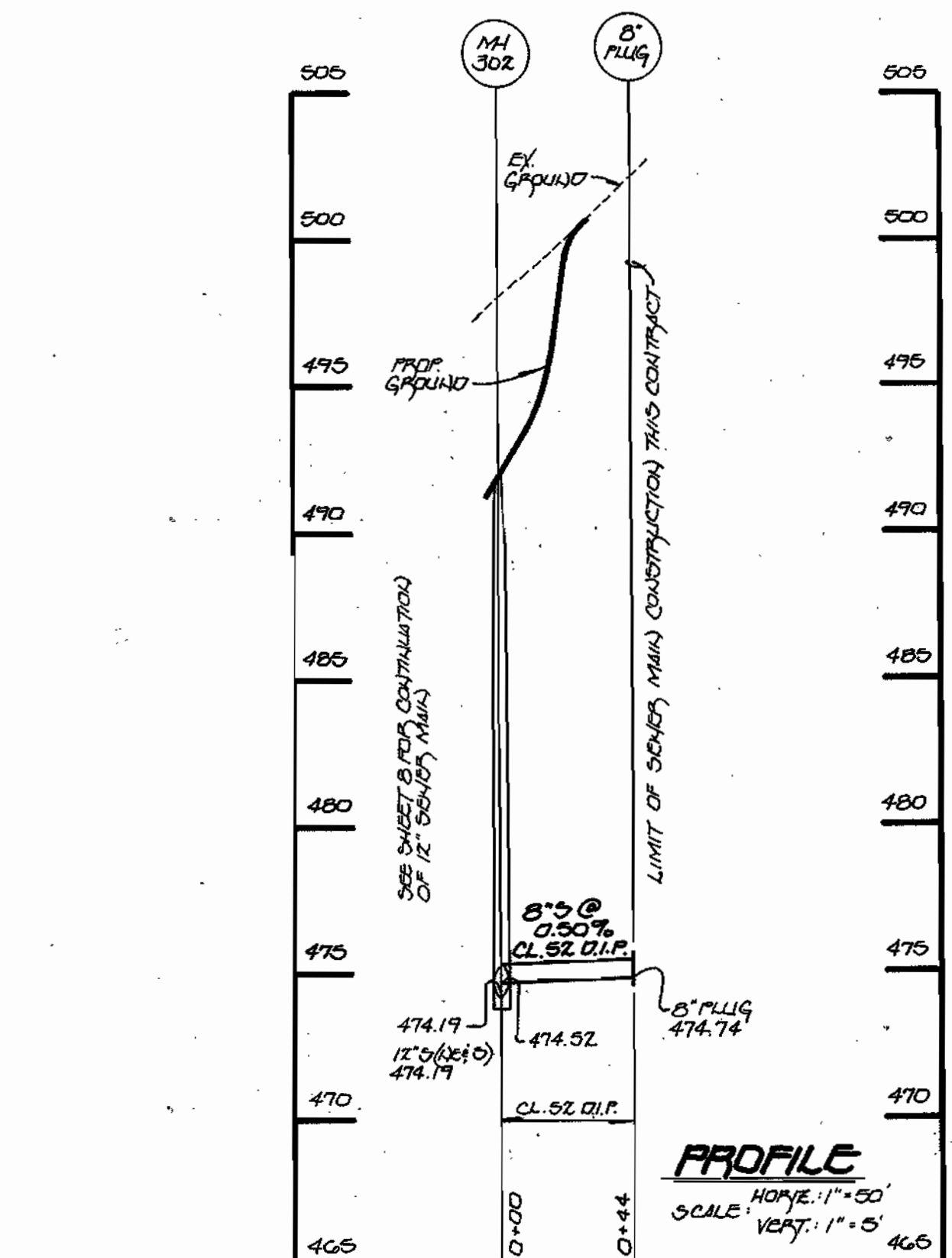
GTW'S WAVERLY WOODS
 SECTION 4, AREA 1
 LOT Nos. 1-23 AND PARCELS A, B, D & E
 CONTRACT NO. 24-345C-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 6 OF 8
 GTW.DWG

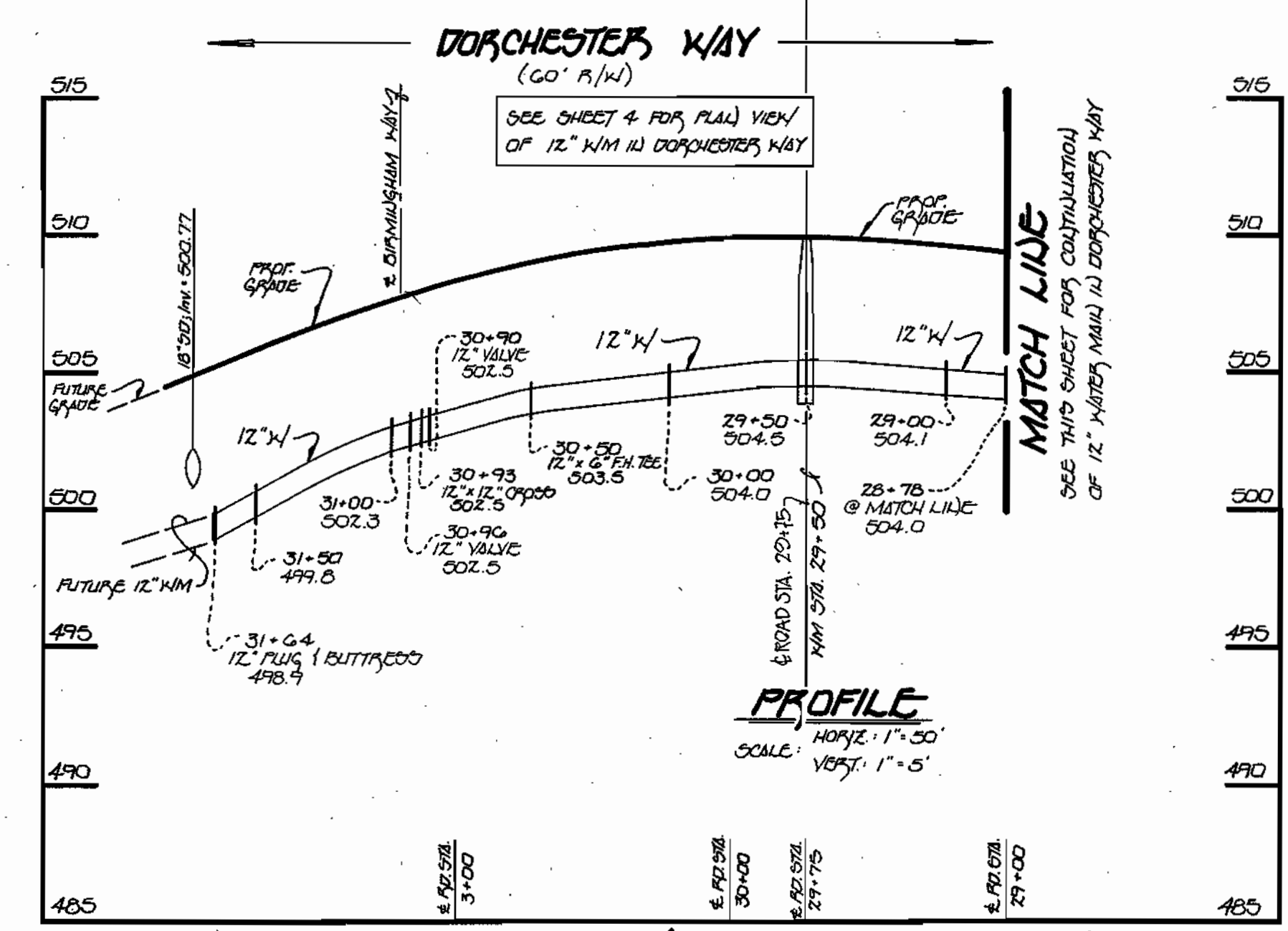
3456 WS/7 GTW'S WAVERLY WOODS



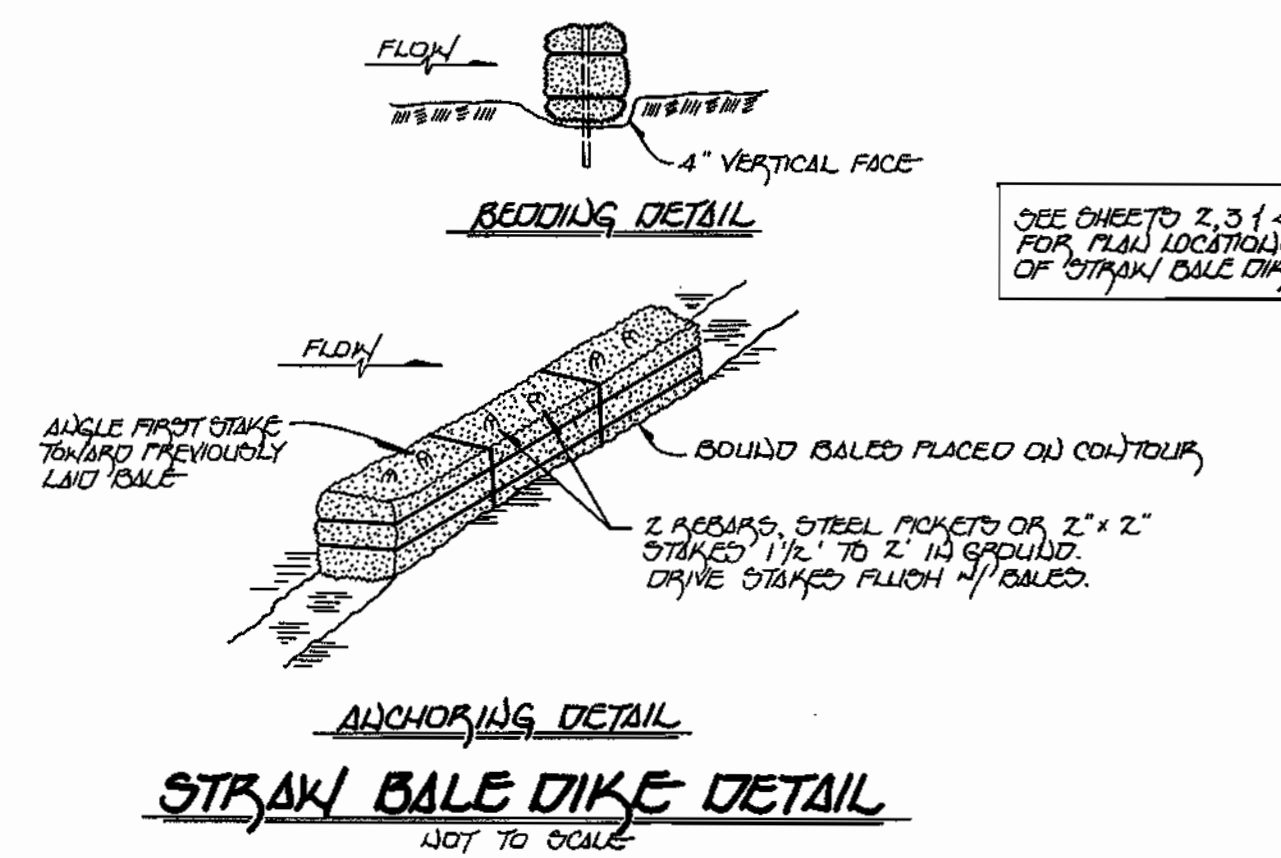
12" WATER MAIN: DORCHESTER WAY



6" SEWER MAIN STUB TO CONDOMINIUM BULK PARCEL



12" WATER MAIN: DORCHESTER WAY



- BALES SHALL BE PLACED AT THE TOP OF A SLOPE OR ON THE COUPOUR, & IN A ROW WITH ENDS TIGHTLY ADJUTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES, & PLACED SO THE ENDS ARE HORIZONTAL.
- 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 W/ THE BALE.
- INSPECTION SHALL BE FREQUENT & REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS REQUIRED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPED STORM FLOW OR DRAINAGE.

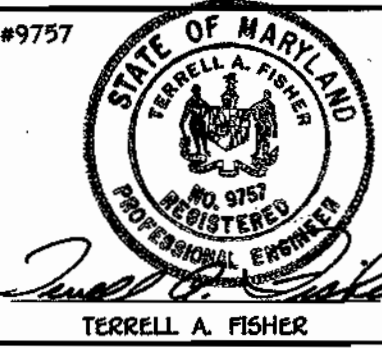
BUSINESS'S CERTIFICATE
 "I HEREBY CERTIFY THAT THIS PLAN FOR PROPOSED SEDIMENT CONTROL REPRESENTS A PRACTICAL & FEASIBLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS & THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
 Paul W. Keidel
 SIGNATURE OF BUSINESS

DEVELOPER'S CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT & CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT & EROSION CONTROL & SEDIMENT CONTROL & THAT ALL PERSONS INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION & SEDIMENT CONTROL REGARDING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENT, AS ARE DEEMED NECESSARY."
 Michael J. McCann FOR UDD, INC.
 SIGNATURE OF DEVELOPER

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 2-22-96
 DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 DATE

Fisher, Collins & Carter, Inc.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK
 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 20428
 (410) 461-2855



DES:	M.J.M.		
DRWN:	J.M.M.		
CHK:	P.W.K.		
DATE:			
BY:	NO.	REVISION	DATE
P.C.G.	△	REVISE CONTRACT TITLE TO REFLECT REVISED PARCELS	3/5/94
F.C.C.	△	REVISE LOCATION OF 12" X 6" F.H. TEE	1/4/96
F.C.C.	△	REVISE LOCATION OF 12" X 6" F.H. TEE	1/4/96

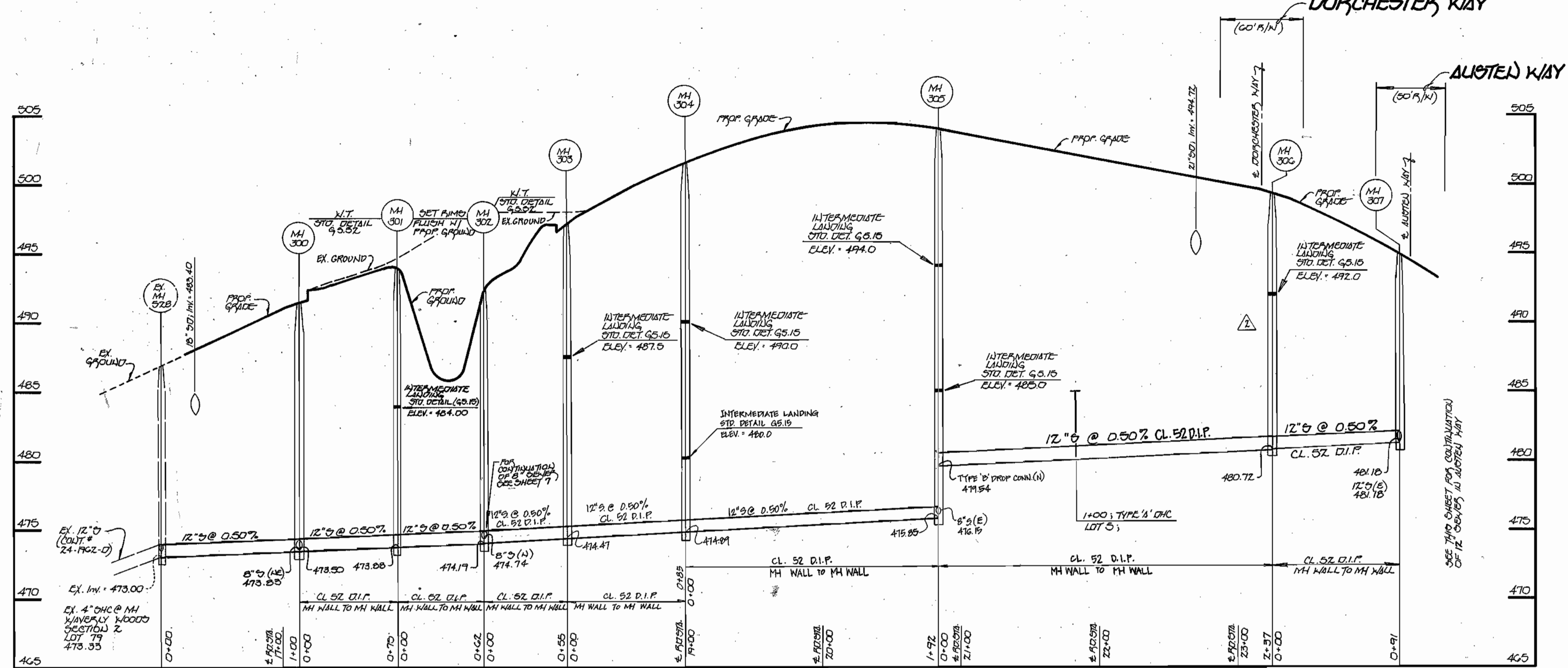
WATER AND SEWER MAINS PROFILES
 600' SCALE MAP NO. 16 BLOCK NO. 6 & 12

GTW'S WAVERLY WOODS
 SECTION 4, AREA 1
 LOT Nos. 1-25 AND PARCELS A, B, D & E
 CONTRACT NO. 24-3456-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 7 OF 8
 GTW.DWG

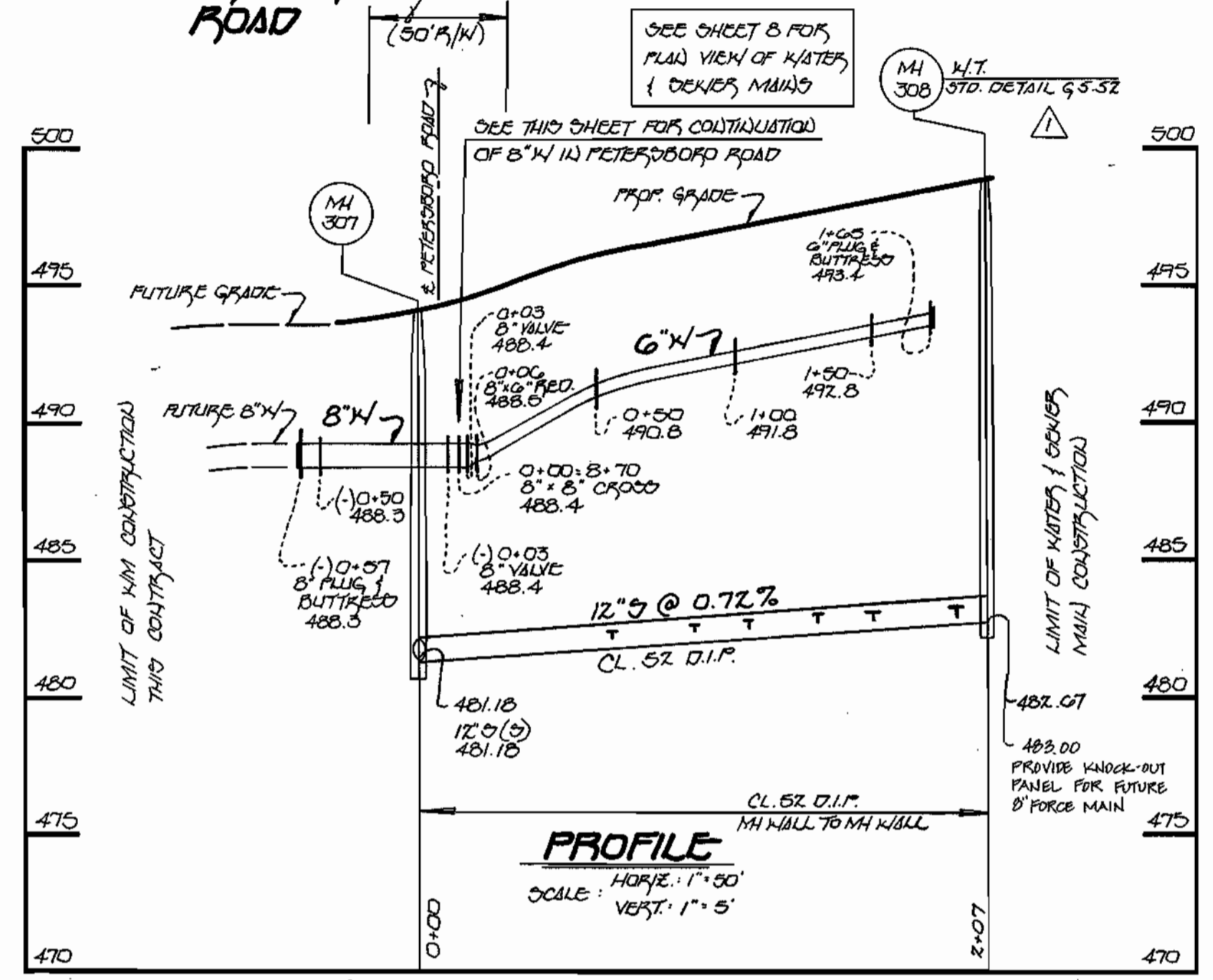
3456 WS/8 GTW'S WAVERLY WOODS

PETERSBORO ROAD (50' R/W)



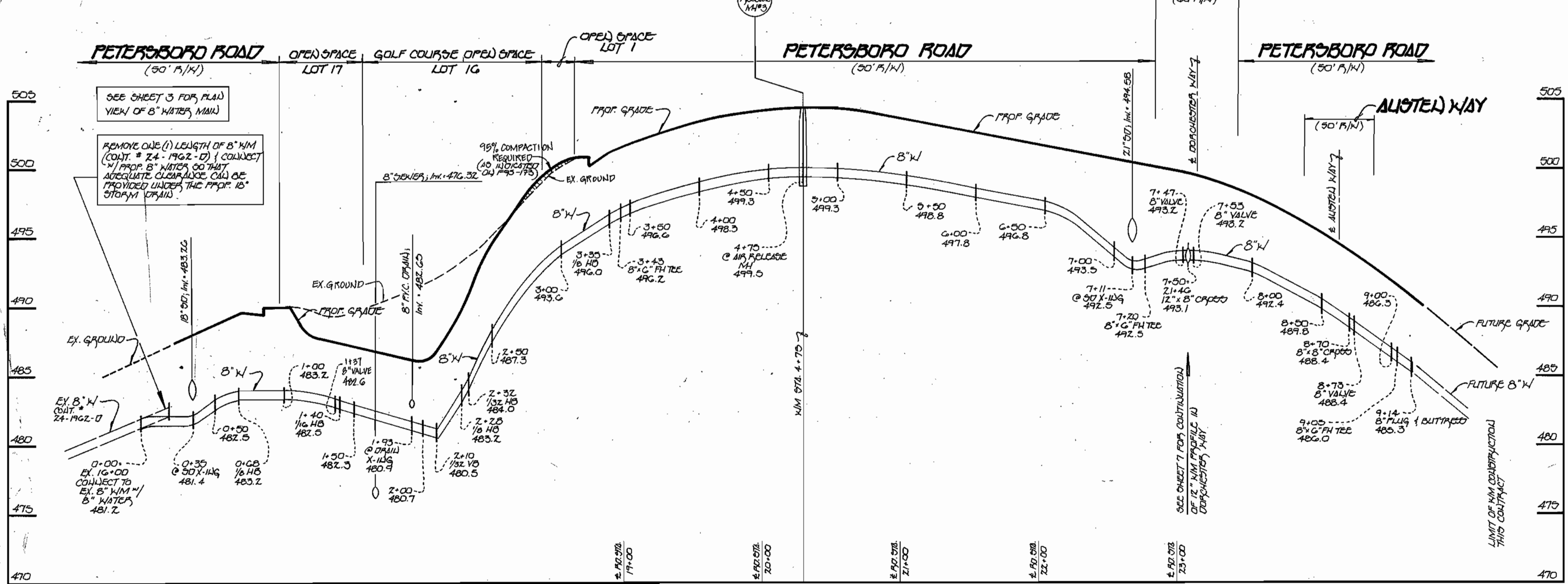
8" SEWER : PETERSBORO ROAD

AUSTEN KWAY (50' R/W)



8" SEWER : AUSTEN KWAY

PETERSBORO ROAD (50' R/W)



8" WATER MAIN : PETERSBORO ROAD

ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR OPENING AND SEDIMENT CONTROL APPROXIMATELY A PRACTICAL & REASONABLE PLAN BASED ON PERSONAL INSPECTION OF THE SITE CONDITIONS & THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Paul W. Keibel 02/21/96
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
 I HEREBY CERTIFY THAT ALL DEVELOPMENT & CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT & PLAN FOR SEDIMENT CONTROL & THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE COMMENCING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 Michael J. McCann for LDD, INC. 2/21/96
 SIGNATURE OF DEVELOPER DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Chief, Bureau of Utilities 2-27-96 DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND Chief, Development & Planning Division 2/1/96 DATE	Fisher, Collins & Carter, Inc. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21117 (410) 461-2850	STATE OF MARYLAND TERRILL A. FISHER LICENSED PROFESSIONAL ENGINEER #9757	DES: M.J.M. DRWN: J.M.M. CHK: P.W.K. DATE:	REVISIONS: P.W.K. REVERSE CONTRACT TITLE TO REFLECT RESULT OF PARCELS 4/8/94 F.C.C. ELIMINATE TYPE 'S' DROP CONNECTION AT MH 300 11/96 F.C.C. MAKE MH 308 WATERPROOF (STD. DETAIL G.S.52) 12/96	WATER AND SEWER MAINS PROFILES 600' SCALE MAP NO. 15 BLOCK NO. 6 & 12	GTW'S WAVERLY WOODS SECTION 4, AREA 1 LOT Nos. 1-23 ADD PARCELS A, B, D & E CONTRACT NO. 24-345G-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 8 OF 8
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