

WATER AND SEWER EXTENSIONS

VILLAGE OF RIVER HILL

SECTION 2 AREA 3

5th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

CONTRACT NO. 34-3296-D

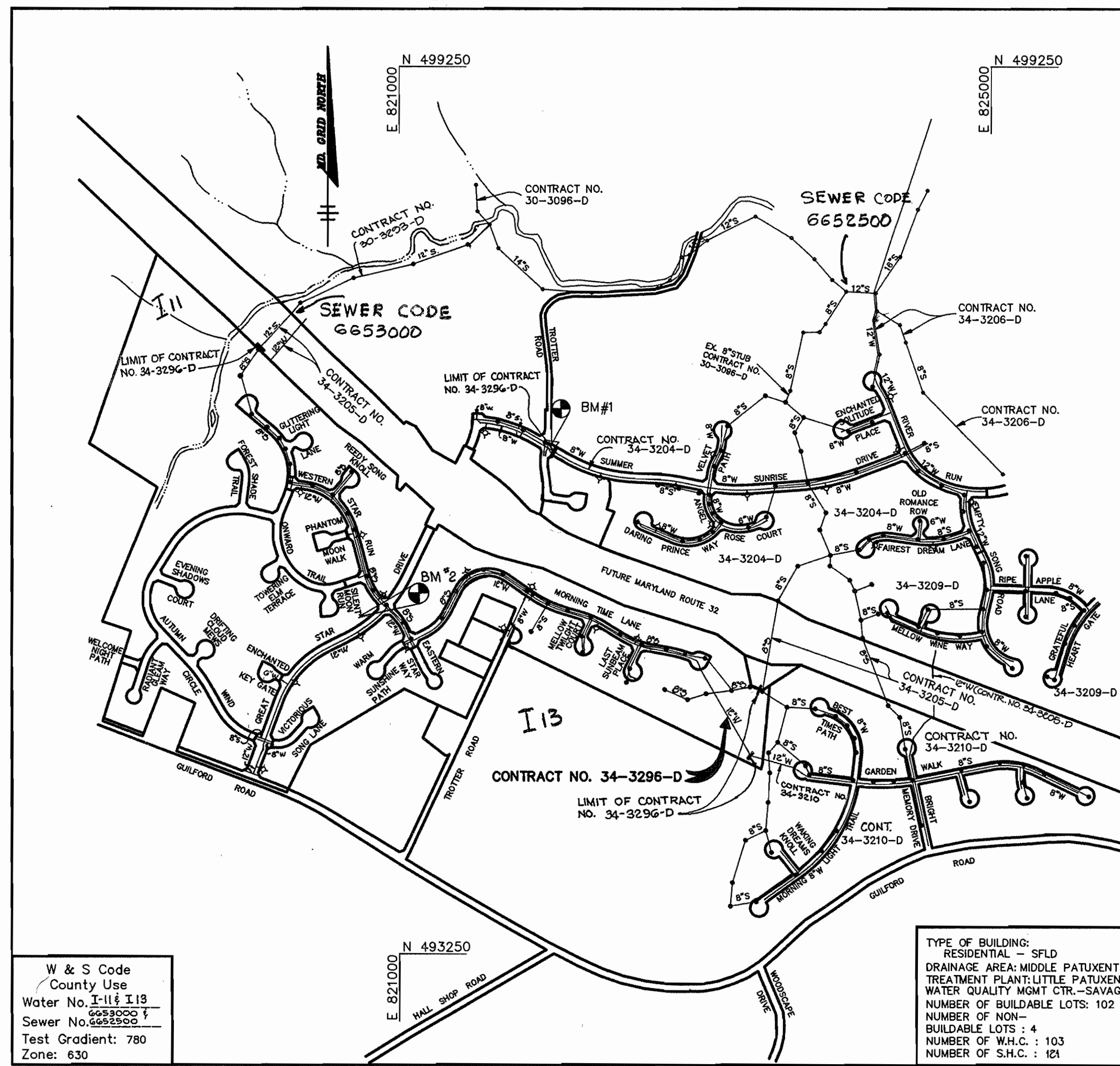
AS-BUILT
 VRH 2/3, Ph. 1, lots 1-106
 ws/1
 3296

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN OF WATER AND SEWER MAINS
3	PLAN OF WATER AND SEWER MAINS
4	PLAN OF WATER AND SEWER MAINS
5	PLAN OF WATER AND SEWER MAINS
6	PROFILES OF WATER AND SEWER MAINS
7	PROFILES OF WATER AND SEWER MAINS
8	PROFILES OF WATER AND SEWER MAINS
9	PROFILES OF WATER AND SEWER MAINS
10	PROFILES OF WATER AND SEWER MAINS
11	PROFILES OF WATER AND SEWER MAINS

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
12" WATER	5908 LF	5944 L.F.	CLASS 52	ATLANTIC STATES A-1 PIPE, INC.
8" WATER	1953 LF	1341 L.F.	CLASS 52	ATLANTIC STATES A-1 PIPE, INC.
6" WATER	974 LF	1043 L.F.	CLASS 52	ATLANTIC STATES A-1 PIPE, INC.
3/4" WHC	2414 LF	8367 L.F.	TYPE K	CAMBRIDGE-LEE WATER PRO
8" SEWER	6104 LF	6290 L.F.	SDR 35	J-M MFG WATER PRO
8" D.I.P. CL. 52	1202 LF	1788 L.F.	CLASS 52	ATLANTIC STATES A-1 PIPE, INC.
4" SHC	3200 LF	3716 L.F.	SDR 35	J-M MFG WATER PRO
FIRE HYDRANTS	13 EACH	13 EACH		MUELLER CO. WATER PRO
12" VALVES	15 EACH	15 EACH	RES SEAT GATE VALVE	MUELLER CO. WATER PRO
8" VALVES	2 EACH	11 EACH	RES SEAT GATE VALVE	MUELLER CO. WATER PRO
6" VALVES	18 EACH	19 EACH	RES SEAT GATE VALVE	MUELLER CO. WATER PRO
MANHOLES	48 EACH	48 EACH	65-11	ATLANTIC CONCRETE PRODUCTS
3" BLOWOFF	1 EACH	1 EACH	# 85	KUPFERL FOUNDRY WATER PRO
AIR RELEASE MANHOLE	3 EACH	3 EACH	65-11	ATLANTIC CONCRETE PRODUCTS
1" WATER	75 LF	70 L.F.	TYPE K	CAMBRIDGE-LEE WATER PRO
4" WATER	307 LF	409 L.F.	CLASS 52	ATLANTIC STATES A-1 PIPE, INC.
4" VALVES	2 EACH	3 EACH	RES SEAT GATE VALVE	MUELLER CO. WATER PRO
1 1/2" DRAIN	2 EACH	2 EACH		MUELLER CO. WATER PRO
4" S.H.C. - D.I.P.		342 L.F.	CLASS 52	ATLANTIC STATES A-1 PIPE, INC.
2" AIR RELEASE VALVE	3 EACH	3 EACH	145 C.1	APCO VALVE WATER PRO

NAME OF UTILITY CONTRACTOR: GAINES & Co. INC.

CHECKBOX
 AS-BUILT DATE
 SURVEY AND DRAFTING DIVISION



W & S Code
 County Use
 Water No. I-116 I13
 Sewer No. 6653000
 Test Gradient: 780
 Zone: 630

TYPE OF BUILDING: RESIDENTIAL - SFLD
 DRAINAGE AREA: MIDDLE PATUXENT
 TREATMENT PLANT: LITTLE PATUXENT
 WATER QUALITY MGMT CTRL - SAVAGE
 NUMBER OF BUILDABLE LOTS: 102
 NUMBER OF NON-BUILDABLE LOTS: 4
 NUMBER OF W.H.C.: 103
 NUMBER OF S.H.C.: 121

VICINITY MAP
 SCALE: 1"=600'

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. data.
- All pipe elevations shown are invert elevations.
- Clear all utilities by a minimum of 8". Clear all poles by 2'-0" minimum or tunnel as required. The owner has contacted the utility 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 bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- For details not shown on the drawings, and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction. (Latest Edition). 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.
- Contractor shall notify the following utility companies 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 850-4820
 Baltimore Gas & Electric Co. Underground Damage Control 787-9068
 Miss Utility 1-800-257-7777
 Colonial Pipeline Co. 785-1390
 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 line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
- All water mains to 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 elevations shown on the drawings. All fire hydrants shall be restrained and buttressed with concrete in accordance with Standard Details. 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 water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- All sewer mains shall be DIP, RCP, VCPX, CSPX, RCCP and P.V.C. unless otherwise noted.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- Force mains shall be D.I.P. only.
- 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 65.52. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
- House(s) with the symbol "C.N.S." indicates that cellar cannot be served.
- Manholes can be either brick or precast concrete structures.
- All 48" sewer drop house connections to be constructed per detail shown on sheet G.

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on F-94-61

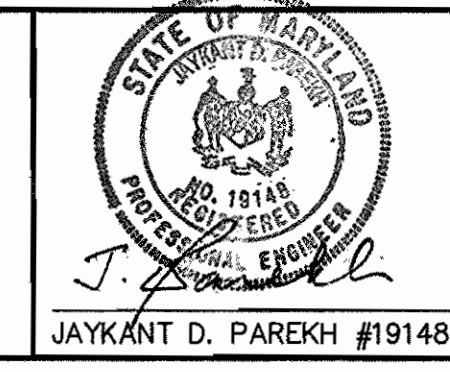
Review for Howard Soil Conservation District and meet technical requirements.
Patricia Grover 3/15/94
 U.S. SOIL CONSERVATION SERVICE DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
John P. Robertson 2/15/94
 HOWARD SOIL CONSERVATION DISTRICT DATE

BENCHMARK
 BM#1 RAILROAD SPIKE IN POLE # 525680 (TROTTER ROAD) ELEV. 393.27
 N 496697.02
 E 822026.81
 BM#2 SPIKE IN POPLAR
 ELEV. 438.92
 N 495551.90
 E 820727.80

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
James G. Linn 3/18/94
 DIRECTOR OF PUBLIC WORKS DATE
Robert W. Bevinger 3-9-94
 CHIEF, BUREAU OF UTILITIES DATE
Paul J. Sorenson 3/18/94
 CHIEF, BUREAU OF ENGINEERING DATE
John A. Dammann 3/18/94
 CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
 Engineers Surveyors
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
 410-997-8900 FAX: 410-997-9282

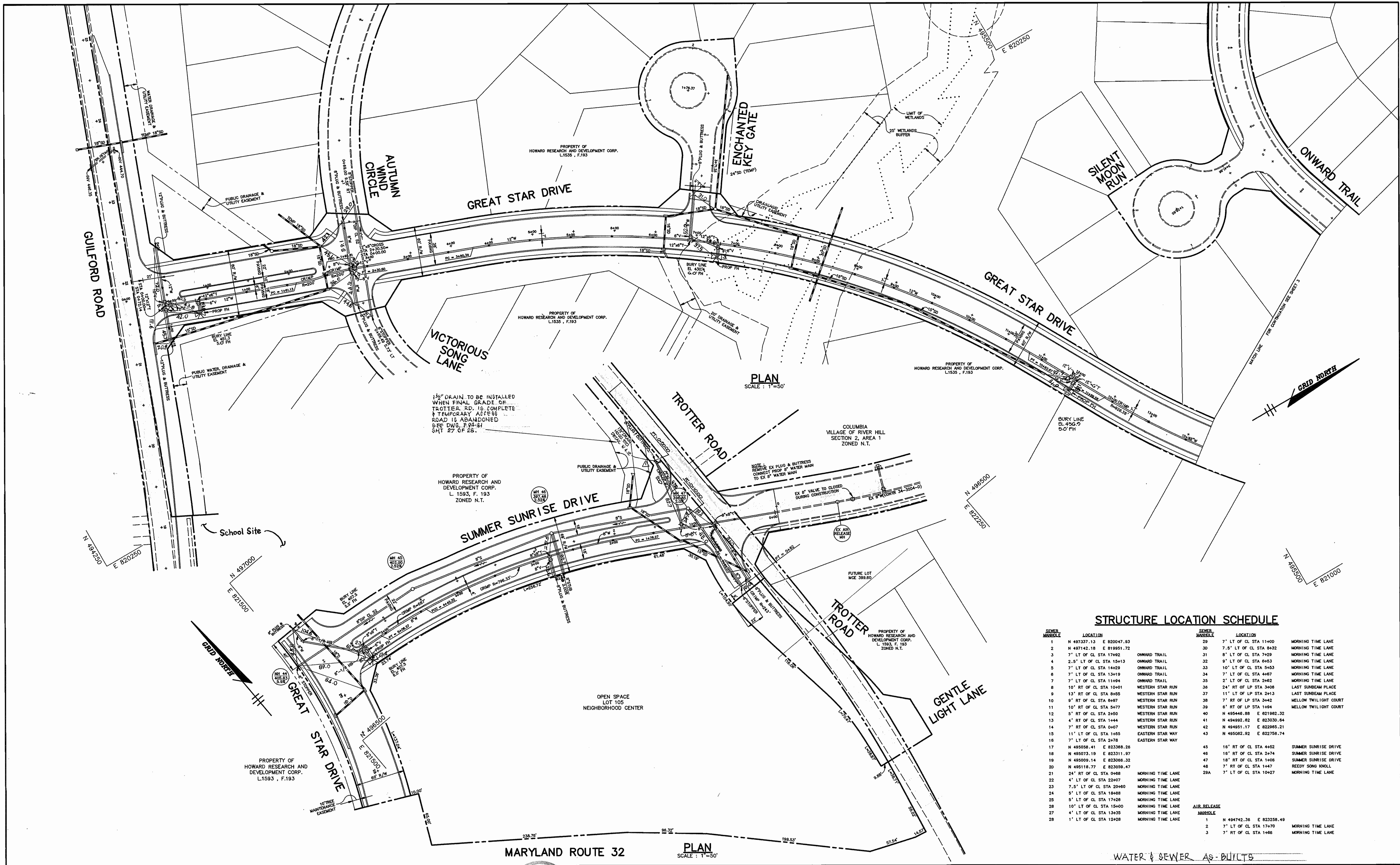


DES: C.J.R.	
DRN: D.A.M.	
CHK: C.J.R.	
DATE: 3-2-94	
WAD BY NO.	1
ADDED NOTE # 20	
REVISION	
DATE: 5-10-94	

TITLE SHEET
 600' SCALE MAP NO. 35 BLOCK NO. 14

WATER & SEWER AS-BUILTS
 VILLAGE OF RIVER HILL
 SECTION 2 AREA 3, PHASE 1
 LOTS 1 THRU 106
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 34-3296-D
 SCALE AS SHOWN
 SHEET 1 OF 14

32076
 ws/2
 VRH 2/3



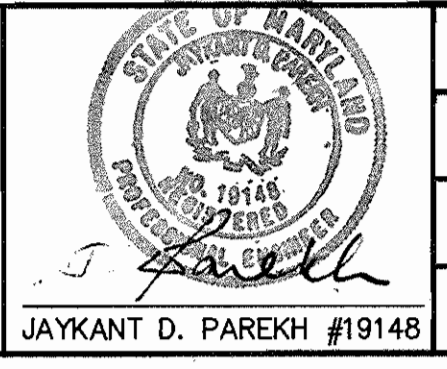
STRUCTURE LOCATION SCHEDULE

SEWER MANHOLE	LOCATION	SEWER MANHOLE	LOCATION	
1	N 497337.13 E 820047.93	29	7' LT OF CL STA 11+00	MORNING TIME LANE
2	N 497142.18 E 819951.72	30	7.5' LT OF CL STA 8+32	MORNING TIME LANE
3	7' LT OF CL STA 17+92	31	8' LT OF CL STA 7+29	MORNING TIME LANE
4	2.5' LT OF CL STA 15+13	32	9' LT OF CL STA 6+53	MORNING TIME LANE
5	7' LT OF CL STA 14+29	33	10' LT OF CL STA 5+53	MORNING TIME LANE
6	7' LT OF CL STA 13+19	34	7' LT OF CL STA 4+97	MORNING TIME LANE
7	7' LT OF CL STA 11+94	35	2' LT OF CL STA 2+62	MORNING TIME LANE
8	10' RT OF CL STA 10+01	36	24' RT OF LP STA 3+08	LAST SUNBEAM PLACE
9	13' RT OF CL STA 8+55	37	11' LT OF LP STA 2+13	LAST SUNBEAM PLACE
10	9' RT OF CL STA 8+97	38	7' RT OF LP STA 3+42	MELLOW TWILIGHT COURT
11	10' RT OF CL STA 9+77	39	8' RT OF LP STA 1+94	MELLOW TWILIGHT COURT
12	5' RT OF CL STA 2+50	40	N 495446.89 E 821982.32	
13	4' RT OF CL STA 1+44	41	N 494992.82 E 823030.64	
14	7' RT OF CL STA 0+07	42	N 494951.17 E 822985.21	
15	11' LT OF CL STA 1+65	43	N 495082.92 E 822758.74	
16	7' LT OF CL STA 2+78			
17	N 495058.41 E 823368.26	45	16' RT OF CL STA 4+62	SUMMER SUNRISE DRIVE
18	N 495073.19 E 823311.97	46	18' RT OF CL STA 2+74	SUMMER SUNRISE DRIVE
19	N 495009.14 E 823068.32	47	18' RT OF CL STA 1+08	SUMMER SUNRISE DRIVE
20	N 495118.77 E 823059.47	48	7' RT OF CL STA 1+47	REEDY SONG KNOLL
21	24' RT OF CL STA 0+88	29A	7' LT OF CL STA 10+27	MORNING TIME LANE
22	4' LT OF CL STA 22+07			
23	7.5' LT OF CL STA 20+80			
24	5' LT OF CL STA 19+88			
25	5' LT OF CL STA 17+28			
26	10' LT OF CL STA 15+00			
27	4' LT OF CL STA 13+35			
28	1' LT OF CL STA 12+28			

WATER & SEWER AS-BUILTS

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: *James J. ...* 3/16/94
 Chief, Bureau of Engineering: *Robert M. ...* 3/18/94
 Chief, Bureau of Utilities: *Robert M. ...* 3-9-94
 Chief, Land Development: *William ...* 3/18/94

RIEMER MUEGGE & ASSOCIATES, INC.
 Planners • Engineers • Surveyors
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21046
 410-997-8900 FAX: 410-997-9288



DES: D.A.M.	
DRN: W.C.W.	
CHK: C.J.R.	
DATE: 3-2-94	
BY: WAD	ADDED 1 1/2" DRAIN
NO.:	
REVISION:	
DATE: 4-10-94	

PLAN OF WATER AND SEWER MAINS
 600' SCALE MAP NO. 35 BLOCK NO. 14

VILLAGE OF RIVER HILL
 SECTION 2 AREA 3
 LOTS 1 THRU 106
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 34-3296-D

SCALE AS SHOWN
 SHEET 2 OF 11

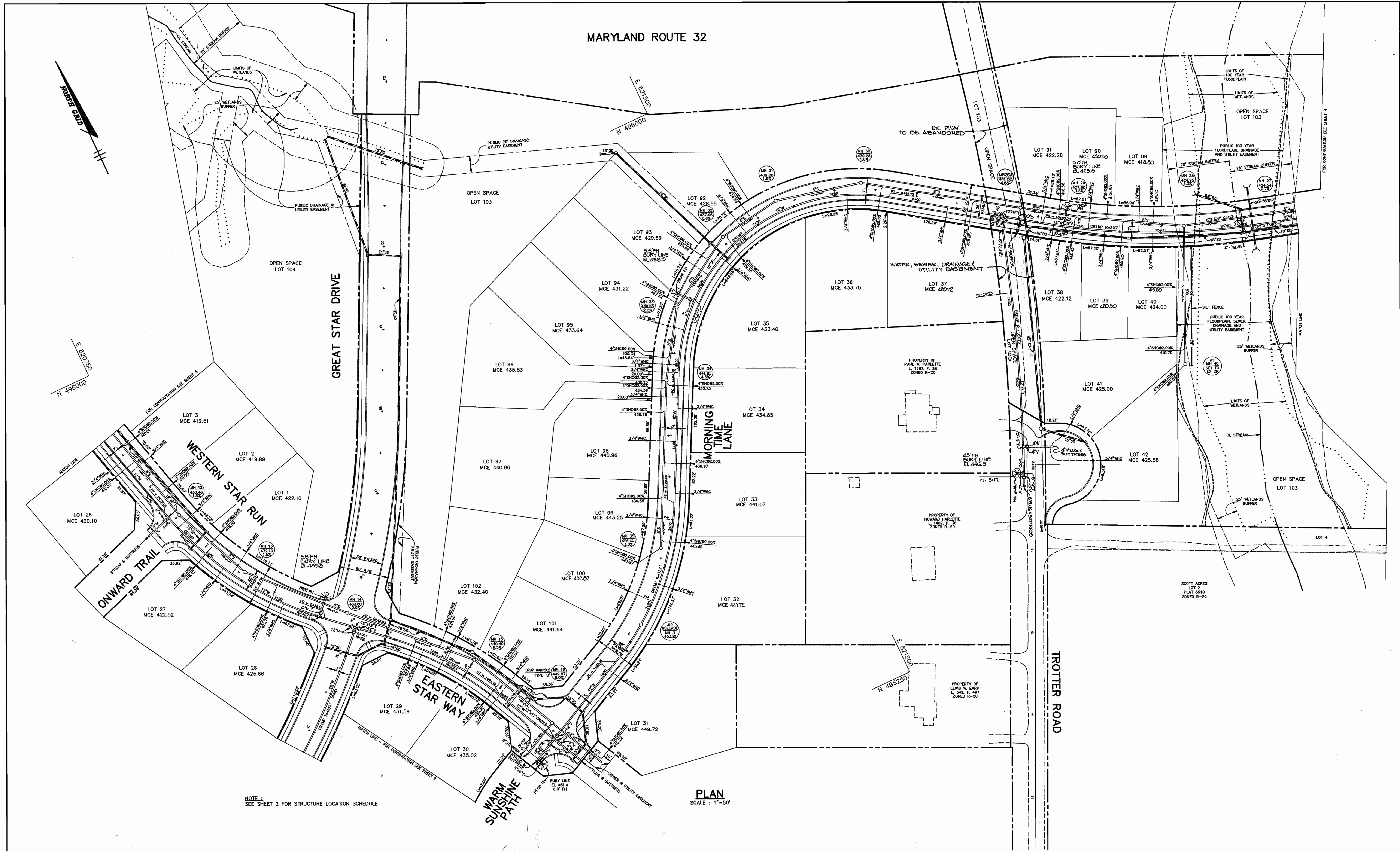
AS-BUILT

VRH 2/3

ws/3

3296

MARYLAND ROUTE 32



PLAN SCALE: 1"=50'

NOTE: SEE SHEET 2 FOR STRUCTURE LOCATION SCHEDULE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. Chew 3/18/94
DIRECTOR OF PUBLIC WORKS DATE

Robert W. Dennis 3-9-94
CHIEF, BUREAU OF UTILITIES DATE

Paul J. Sisson 3/18/94
CHIEF, BUREAU OF ENGINEERING DATE

Chief, Land Development DATE

RIEMER MUEGGE & ASSOCIATES, INC.
Planners Engineers Surveyors
8818 Centre Park Drive Suite 200 Columbia, Md 21045
410-997-8900 FAX: 410-997-9282



DES: D.A.M.	
DRN: W.C.W.	
CHK: C.J.R.	
DATE: 3-2-94	
BY: NO.	
REVISION	
DATE	

PLAN OF WATER AND SEWER MAINS

600' SCALE MAP NO. 35 BLOCK NO. 14

VILLAGE OF RIVER HILL
SECTION 2 AREA 3
LOTS 1 THRU 106
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 34-3296-D

SCALE AS SHOWN

SHEET 3 OF 11

AS-BUILT

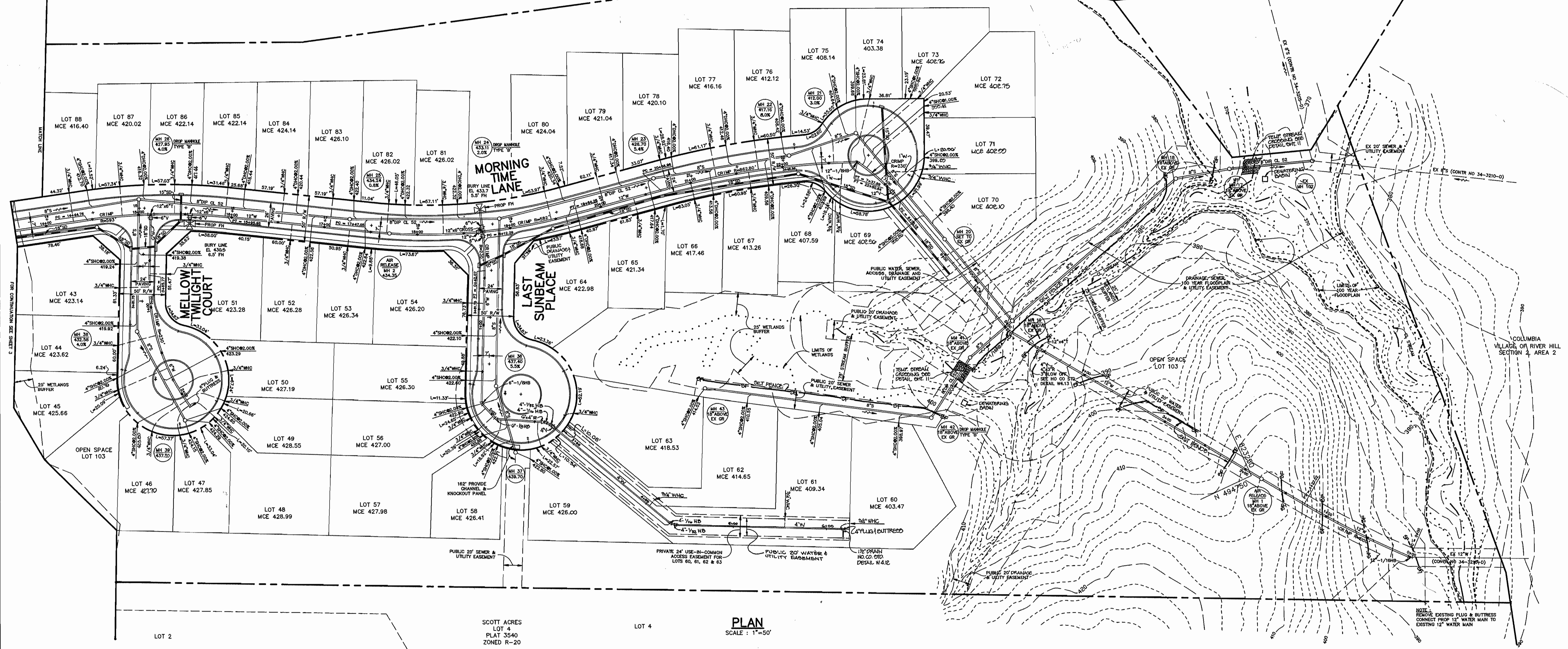
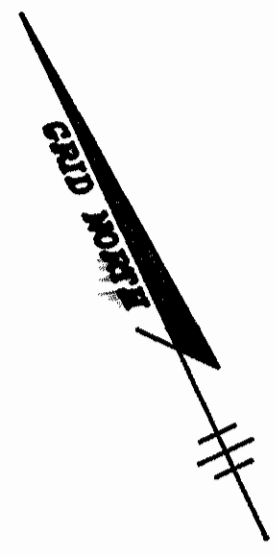
VRH 2/3

ws/4

3296

MARYLAND ROUTE 32

N 495750
E 822500



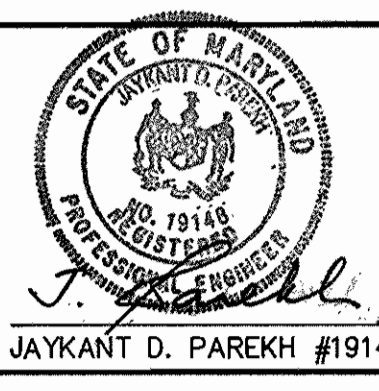
PLAN
SCALE: 1"=50'

NOTE:
SEE SHEET 2 FOR STRUCTURE LOCATION SCHEDULE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. ... 3/18/04
DIRECTOR OF PUBLIC WORKS DATE
Robert M. ... 3-9-94
CHIEF, BUREAU OF UTILITIES DATE
Charles ... 3/18/04
CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, Md 21046
410-997-8900 FAX: 410-997-9282



DES: D.A.M					
DRN: W.C.W.					
CHK: C.J.R.					
DATE: 3-2-04					
BY NO.					
REVISION					
DATE					

PLAN OF WATER AND SEWER MAINS

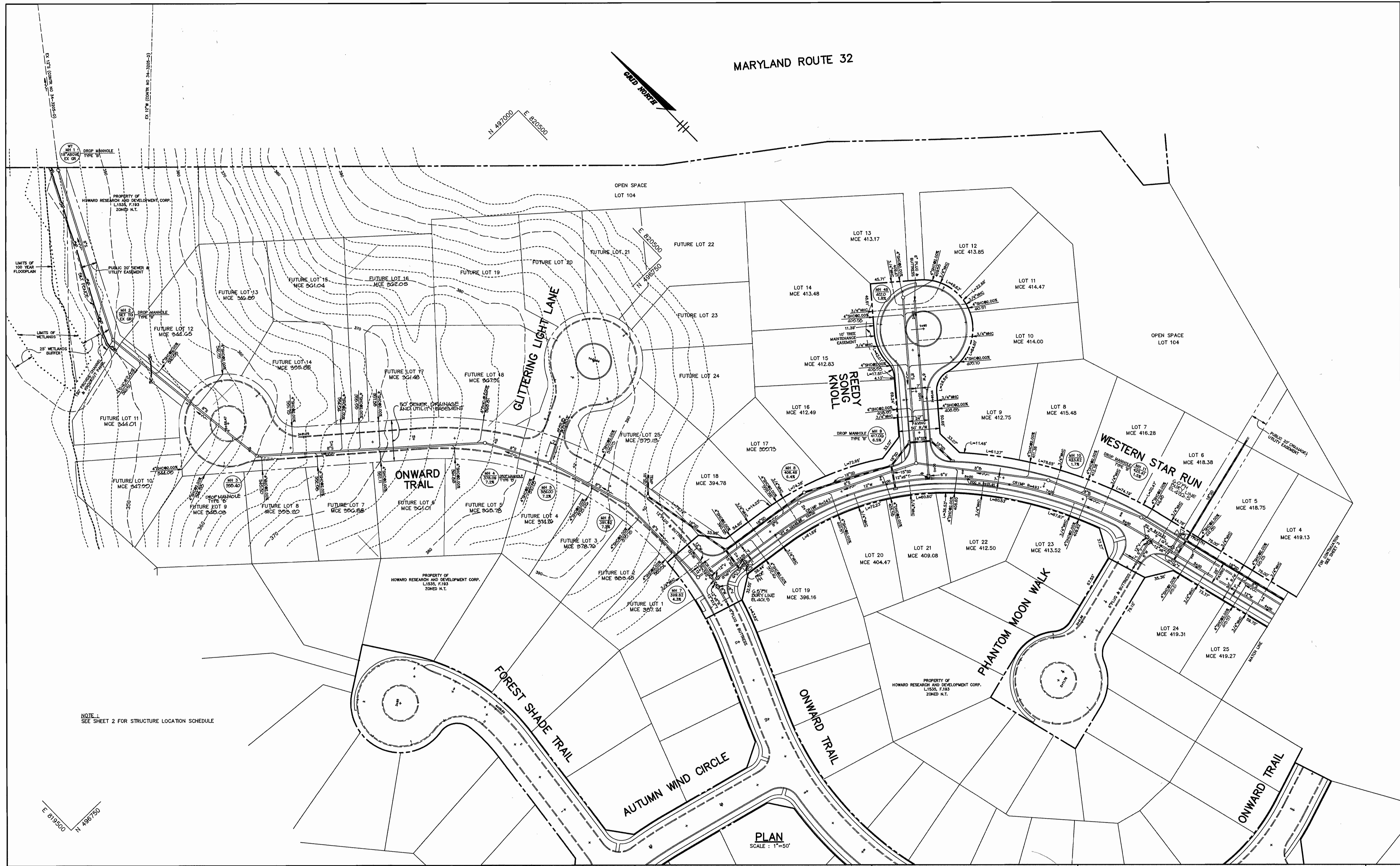
600' SCALE MAP NO. 35 BLOCK NO. 14

VILLAGE OF RIVER HILL
SECTION 2 AREA 3 PHASE I
LOTS 1 THRU 106
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 34-3296-D

SCALE AS SHOWN
SHEET 4 OF 11

AS-BUILT
3-9-95

AS-BUILT
 VRH 2/3
 WS/S
 3296



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James J. Shaw 3/16/94
 DIRECTOR OF PUBLIC WORKS DATE
Robert B. Berger 3-9-94
 CHIEF, BUREAU OF UTILITIES DATE
Robert J. Soren 3/16/94
 CHIEF, BUREAU OF ENGINEERING DATE
Chris D. Williams 3/9/94
 CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
 Planners • Engineers • Surveyors
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
 410-997-8900 FAX : 410-997-9282



DES : D.A.M.	
DRN : W.C.W.	
CHK : C.J.R.	
DATE : 3-2-94	
BY NO.	
REVISION	
DATE	

PLAN OF WATER AND SEWER MAINS

600' SCALE MAP NO. 35 BLOCK NO. 14

VILLAGE OF RIVER HILL
 SECTION 2 AREA 3 PHASE 1
 LOTS 1 THRU 106
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 34-3296-D

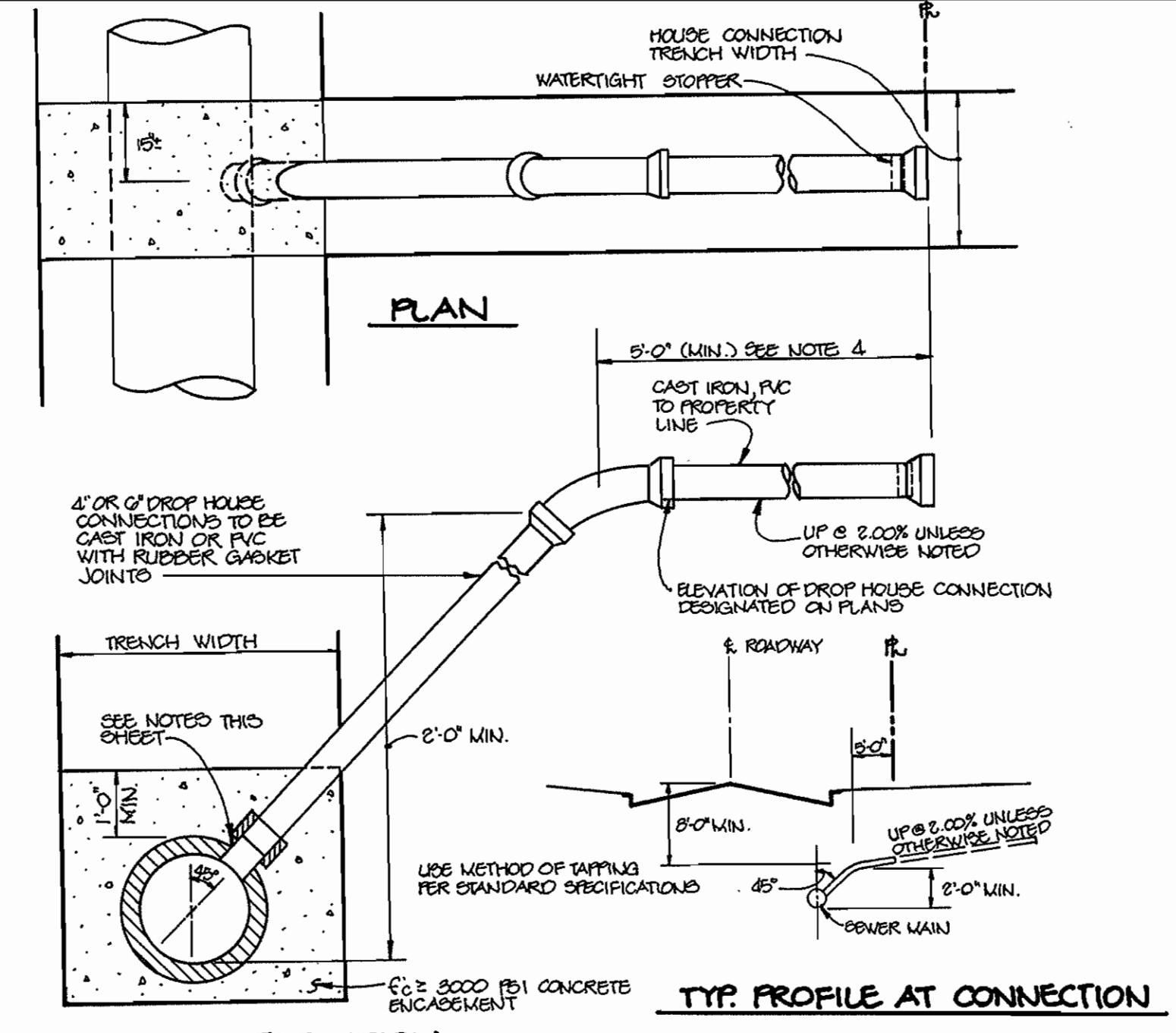
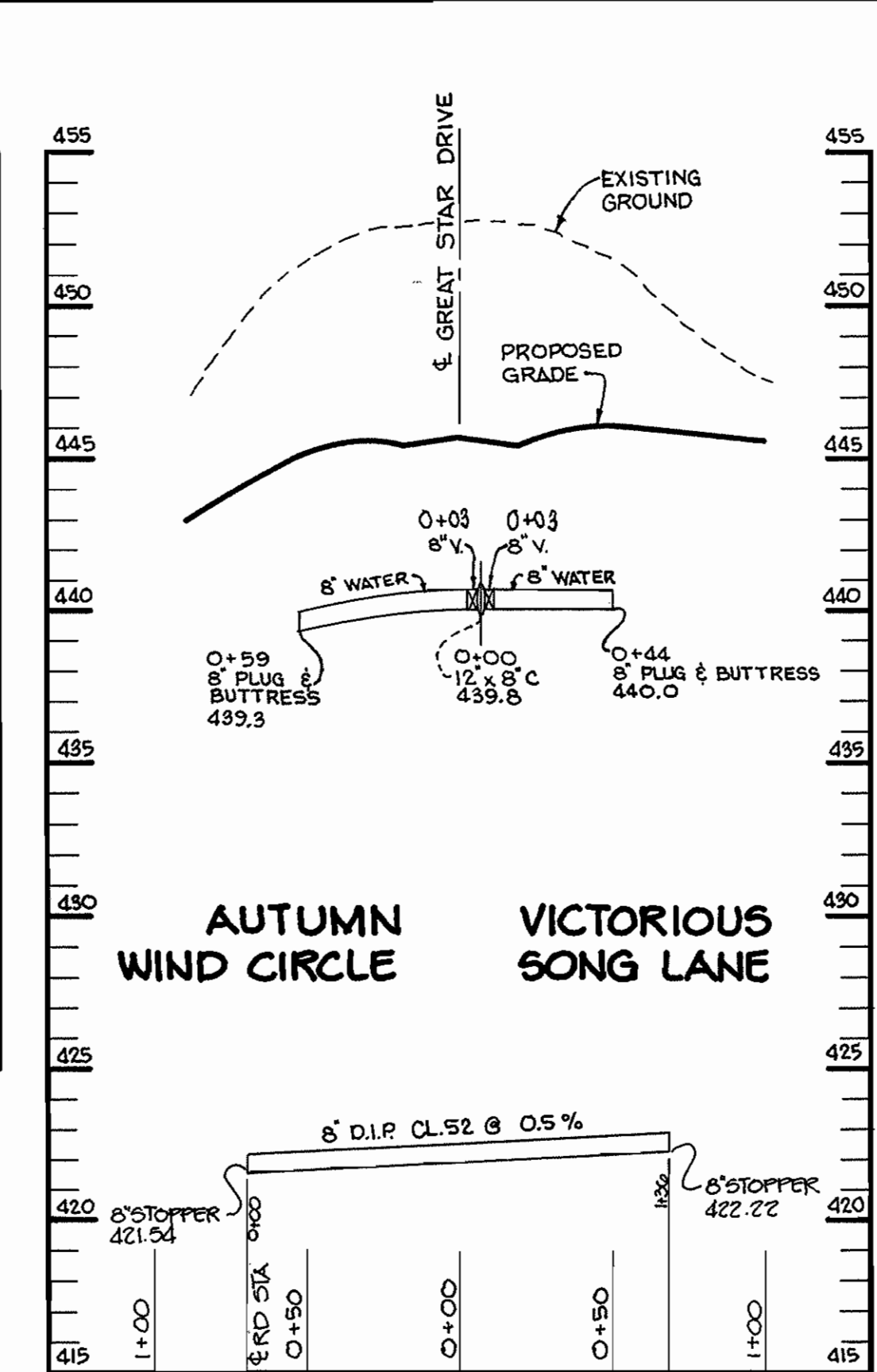
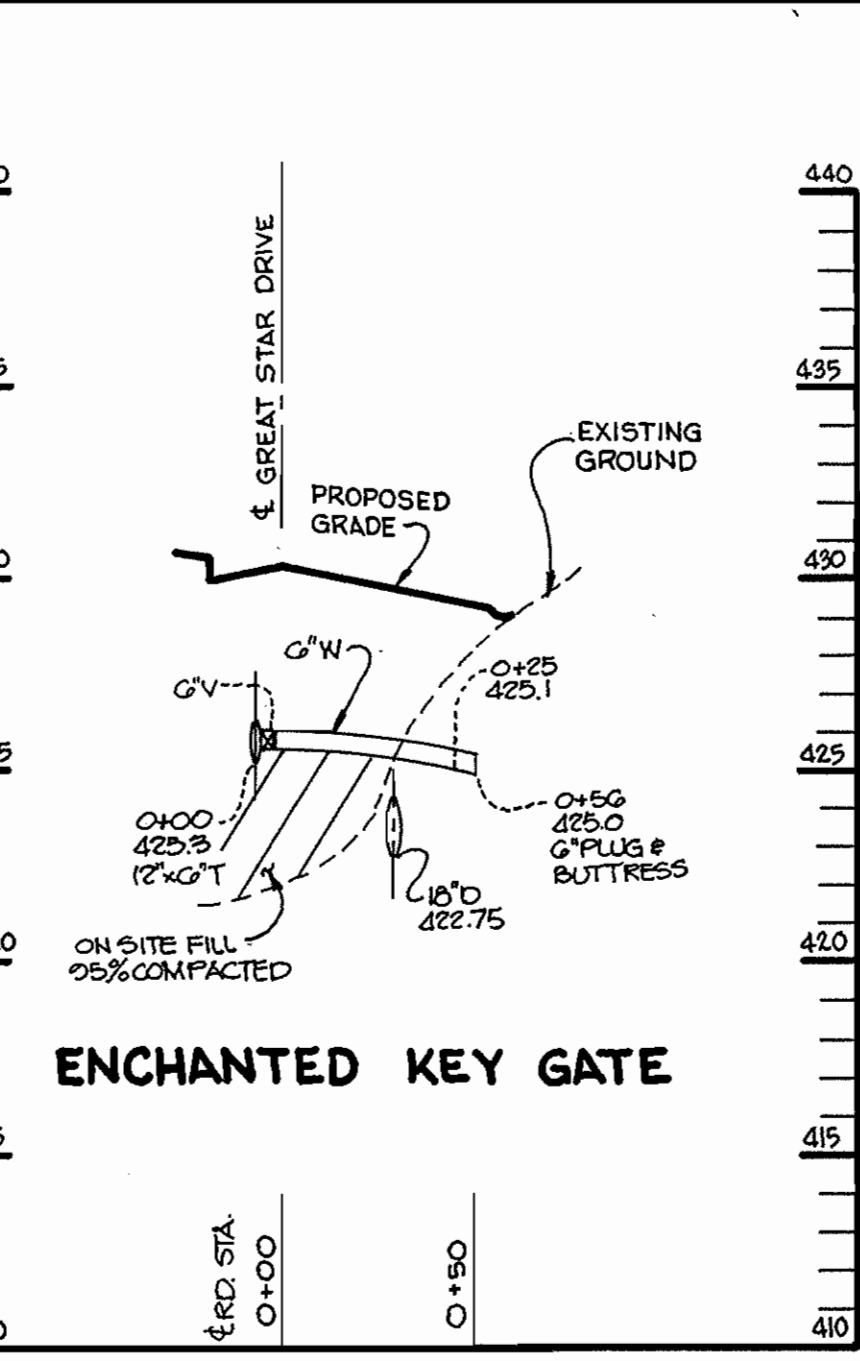
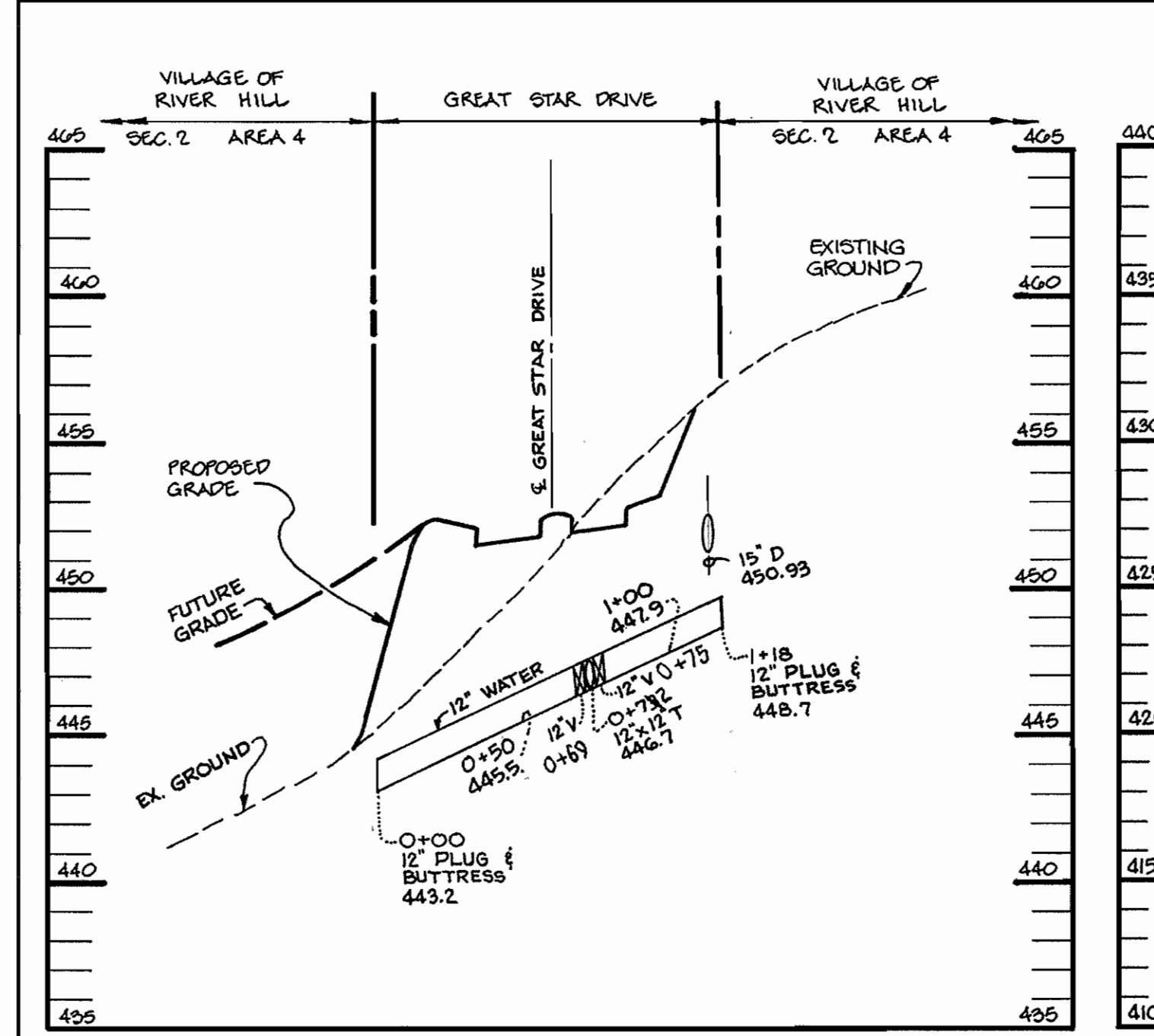
SCALE AS SHOWN
 SHEET 5 OF 11

AS-BUILT

VRH 4/3

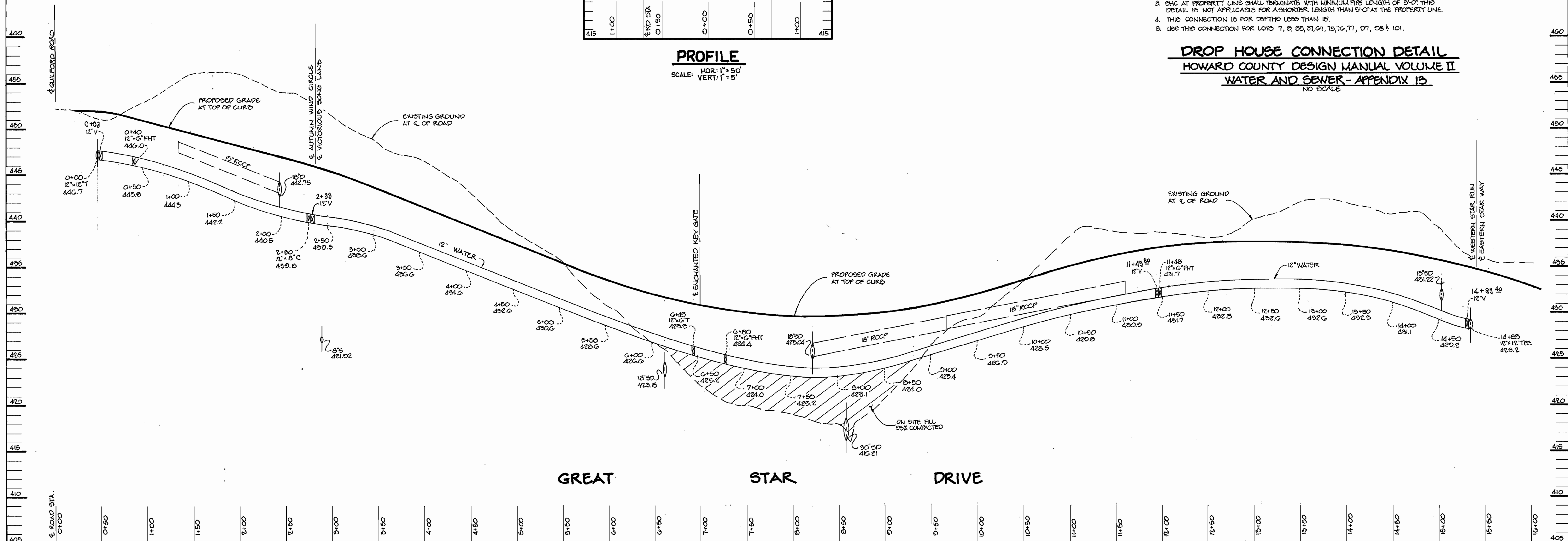
WS/6

3296



- NOTES:**
1. 8" to 24" THRU 12" SEWER MAIN USE SADDLE.
 2. 8" TO PROPOSED SEWER MAINS, USE TEE, SEE VOLUME II, STANDARD DETAIL 2.12.
 3. 8" AT PROPERTY LINE SHALL TERMINATE WITH MINIMUM PIPE LENGTH OF 5'-0" THIS DETAIL IS NOT APPLICABLE FOR A SHORTER LENGTH THAN 5'-0" AT THE PROPERTY LINE.
 4. THIS CONNECTION IS FOR DEPTHS LESS THAN 15'.
 5. USE THIS CONNECTION FOR LOTS 7, 8, 25, 31, 37, 43, 47, 51, 55 & 101.

DROP HOUSE CONNECTION DETAIL
HOWARD COUNTY DESIGN MANUAL VOLUME II
WATER AND SEWER-APPENDIX 13
NO SCALE



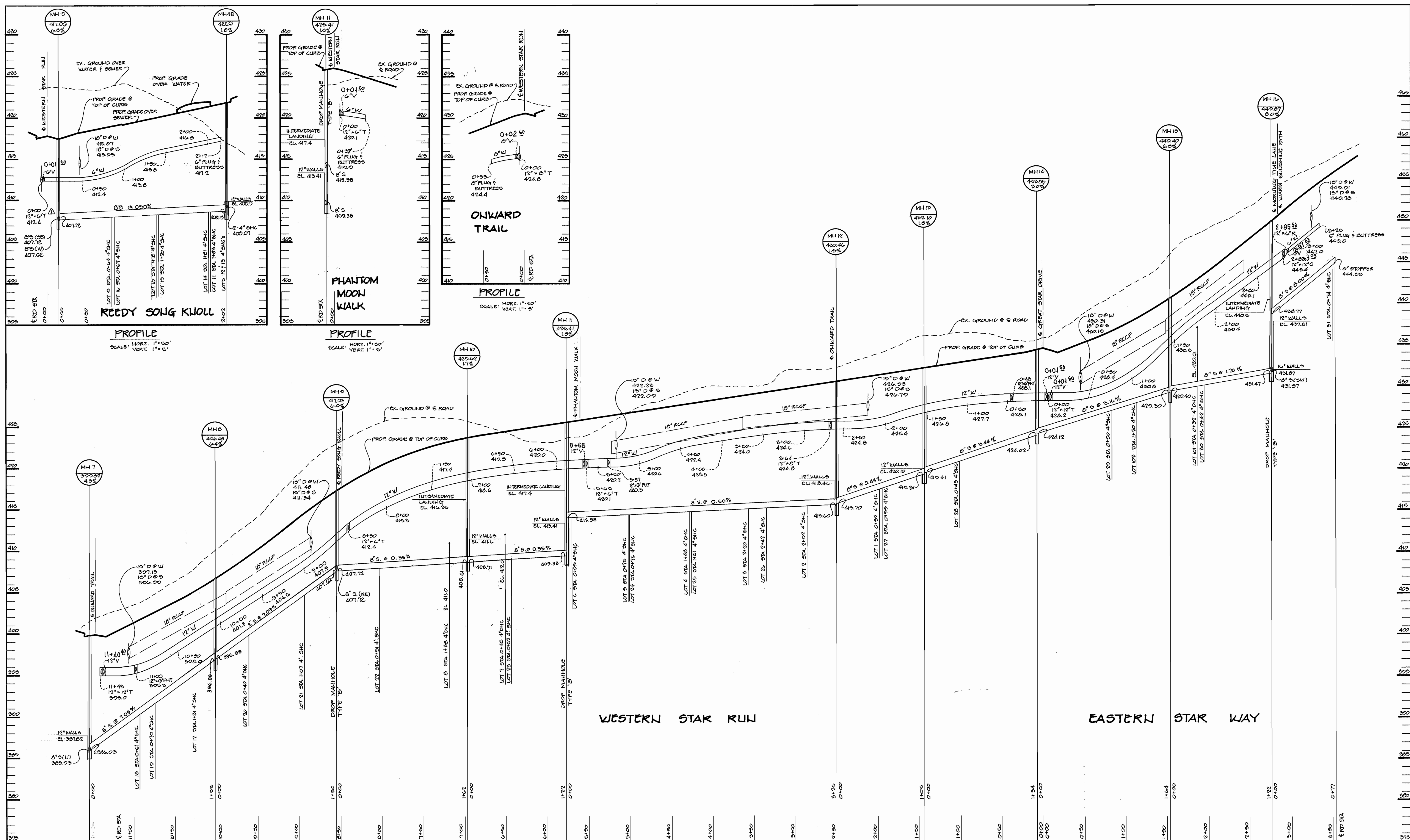
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: Robert M. Benyon 3-9-94 Chief, Bureau of Engineering: Paul D. Johnson 3/18/94 Chief, Bureau of Utilities: Robert M. Benyon 3-9-94 Chief, Land Development: Paul D. Johnson 3/18/94		RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8816 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282 JAYKANT D. PAREKH #10146	DES: DAM DRN: DBS CHK: CJR DATE: 5-2-94 NAD: 1 BY: NO.	ADDED D.H.C. DETAIL REVISION DATE: 5-10-94	600' SCALE MAP NO. 35 BLOCK NO. 14	WATER & SEWER AS-BUILTS VILLAGE OF RIVER HILL SECTION 2 AREA 3 PHASE 1 LOTS 1 THRU 106 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 34-3296-D	SCALE AS SHOWN SHEET 6 OF 11
--	--	---	---	--	------------------------------------	---	---------------------------------

AS-BUILT

VRH 2/3

ws/7

3296



PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=5'

PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=5'

PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=5'

WATER & SEWER AS-BUILTS

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

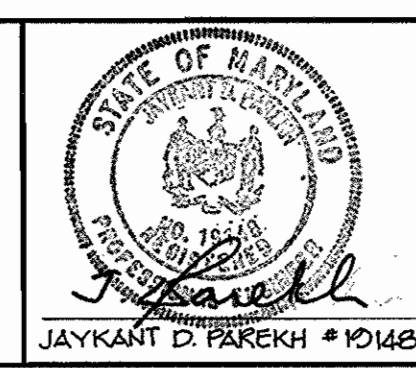
James P. Lewis 3/18/04
DIRECTOR OF PUBLIC WORKS DATE

Robert W. Benning 3-9-94
CHIEF, BUREAU OF UTILITIES DATE

Paul J. Soper 3/18/04
CHIEF, BUREAU OF ENGINEERING DATE

Chad D. Soper 3/18/04
CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282



DES: DAM	
DRN: EK	
CHK: CJR	
DATE: 9-2-04	
BY: NO.	REVISION
WAD	CHANGED 12" x 6" TO 12" x 8" T
DATE: 4-10-04	

PROFILES OF
WATER AND SEWER MAINS

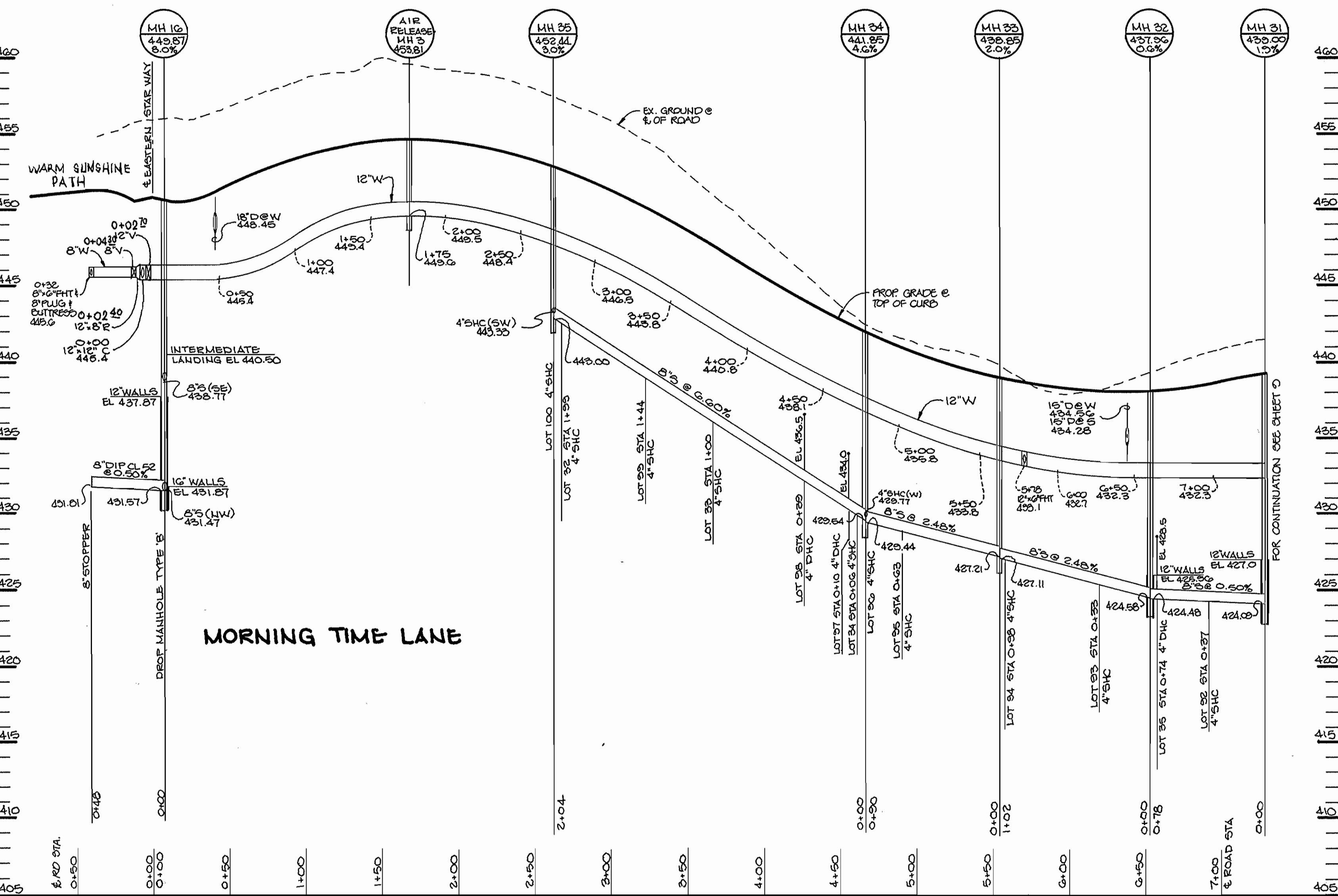
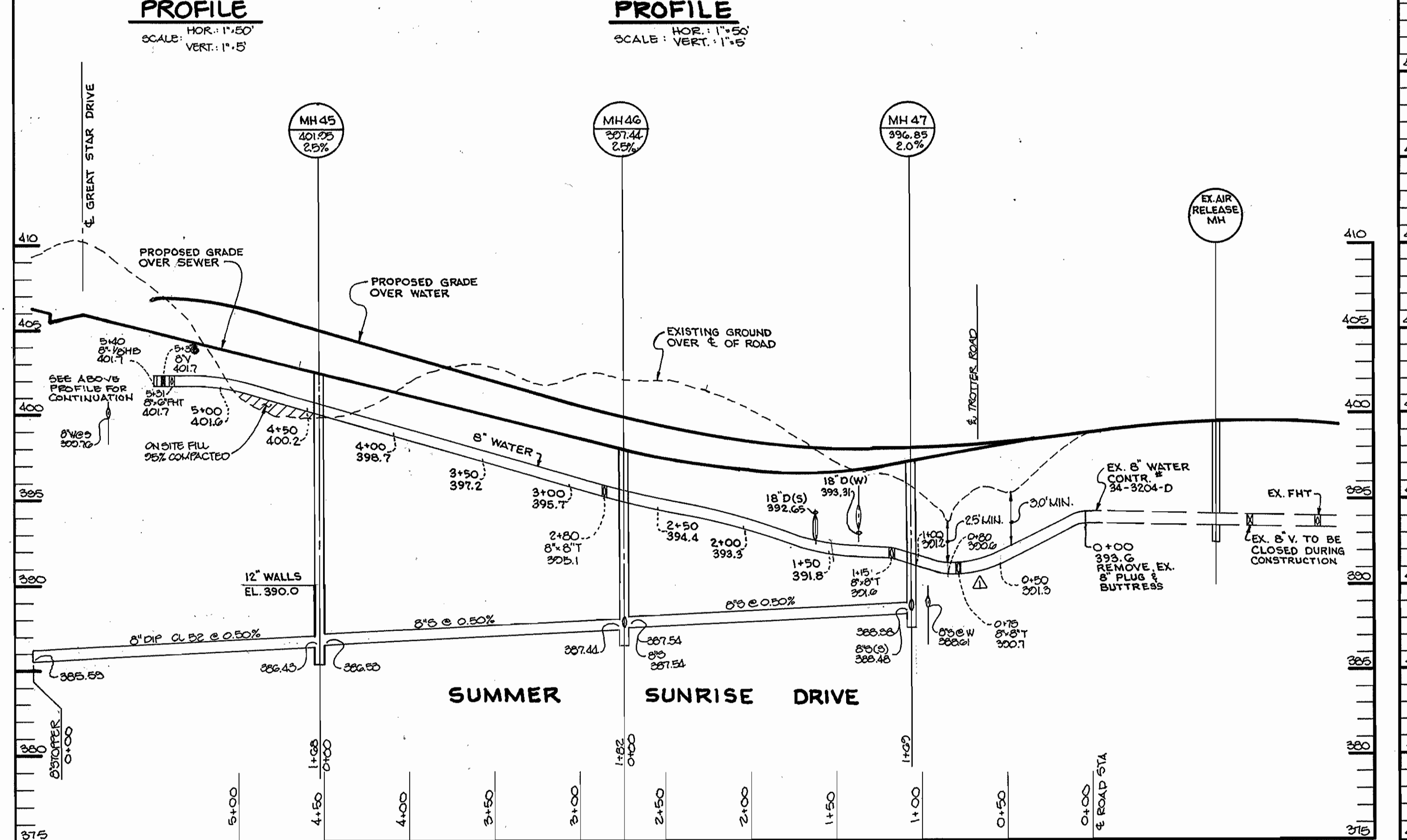
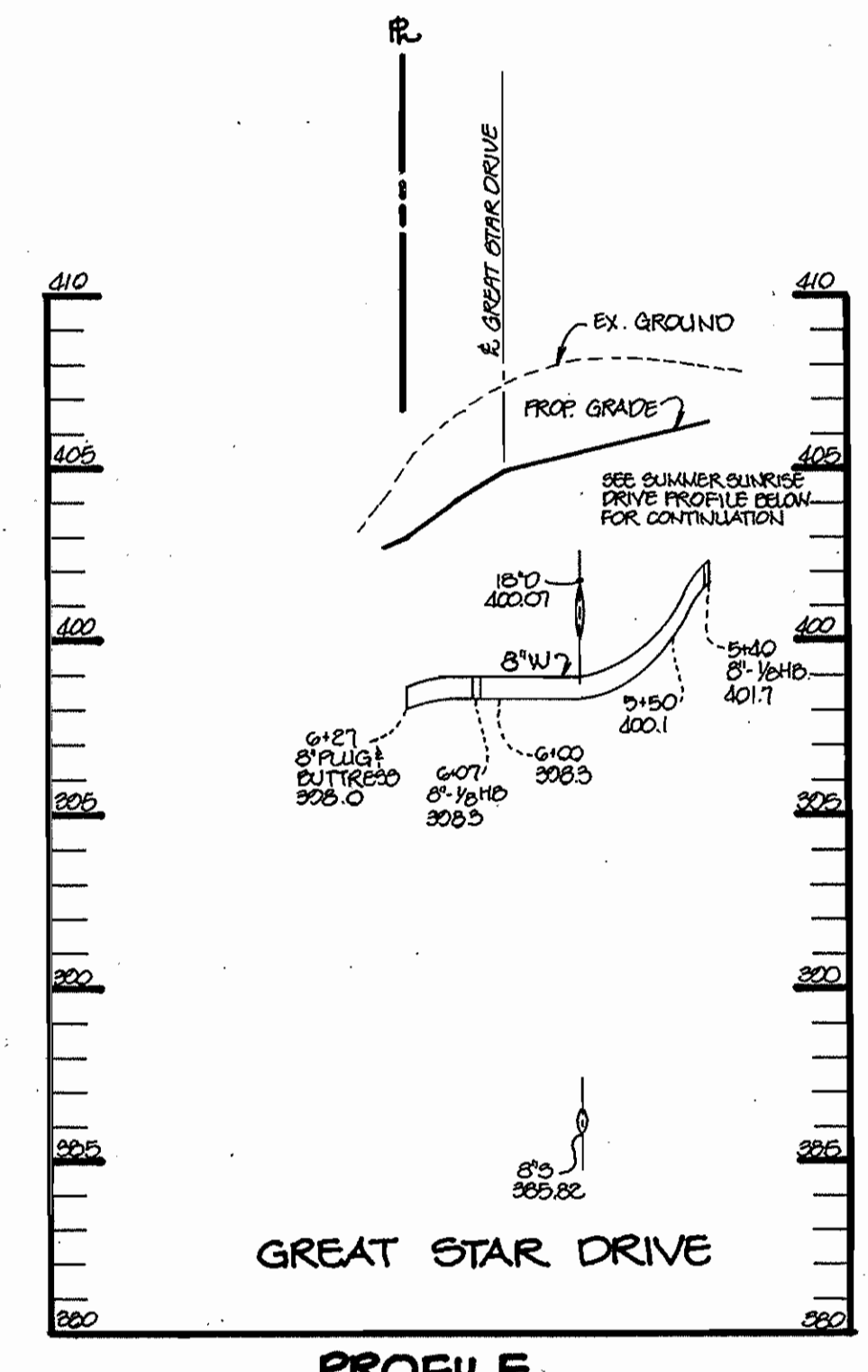
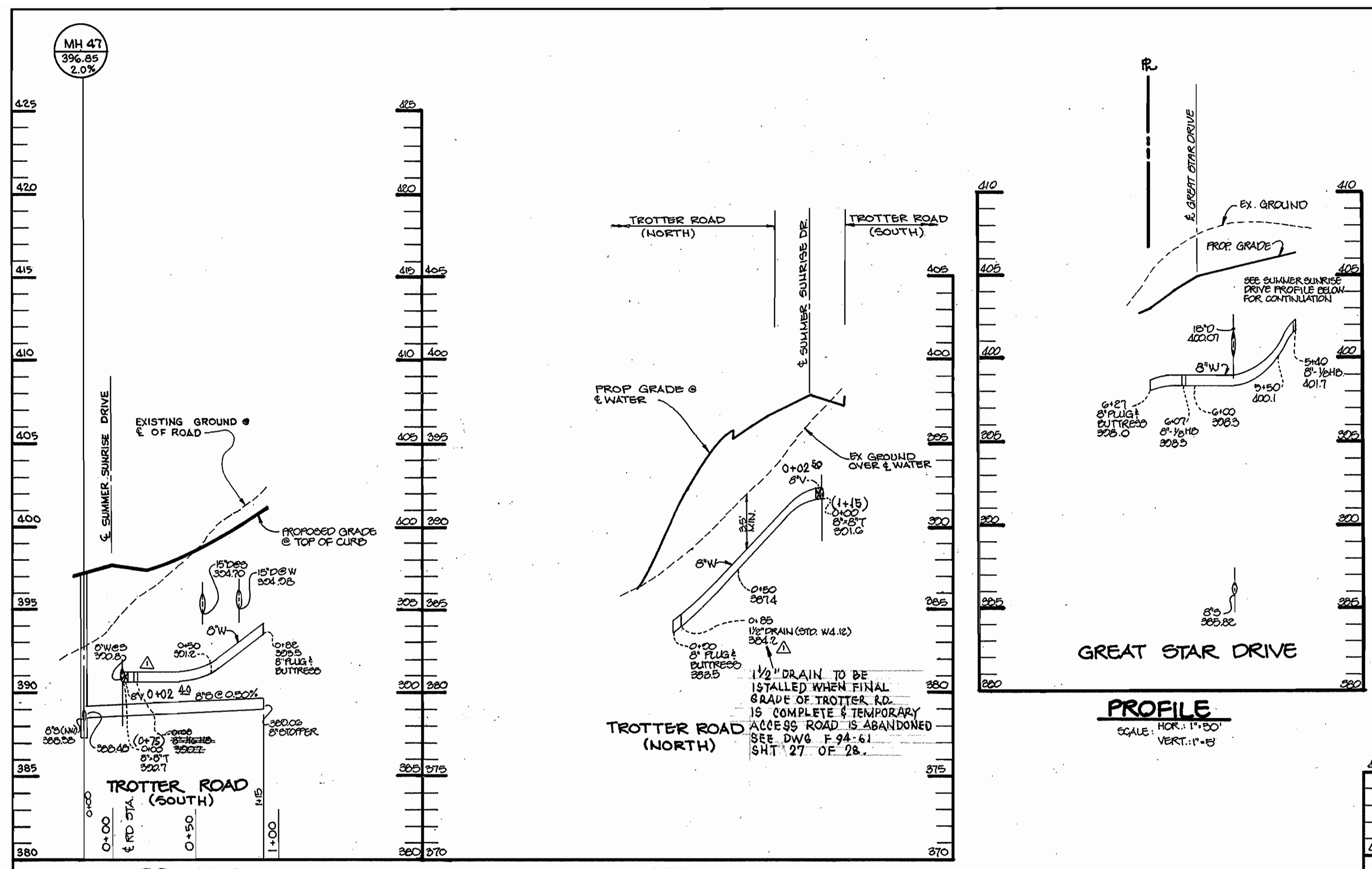
600' SCALE MAP NO. 35 BLOCK NO. 14

VILLAGE OF RIVER HILL
SECTION 2 AREA 3 PHASE 1
LOTS 1 THRU 106
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 34-3296-D

SCALE AS SHOWN

SHEET 7 OF 11

AS-BUILT



VRH 2/3
3296 w/s/8

PROFILE SCALE: HOR: 1"=50' VERT: 1"=5' **PROFILE** SCALE: HOR: 1"=50' VERT: 1"=5' WATER & SEWER AS-BUILTS

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

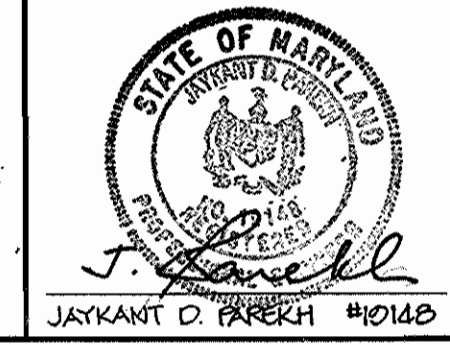
3/18/04
DIRECTOR OF PUBLIC WORKS DATE

3/18/04
CHIEF, BUREAU OF ENGINEERING DATE

3-994
CHIEF, BUREAU OF UTILITIES DATE

3/18/04
CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282



DES: DAK	
DRN: E.D.J.	
CHK: C.J.R.	
DATE: 3-2-04	
NO.	
REVISION	

PROFILES OF WATER AND SEWER MAINS

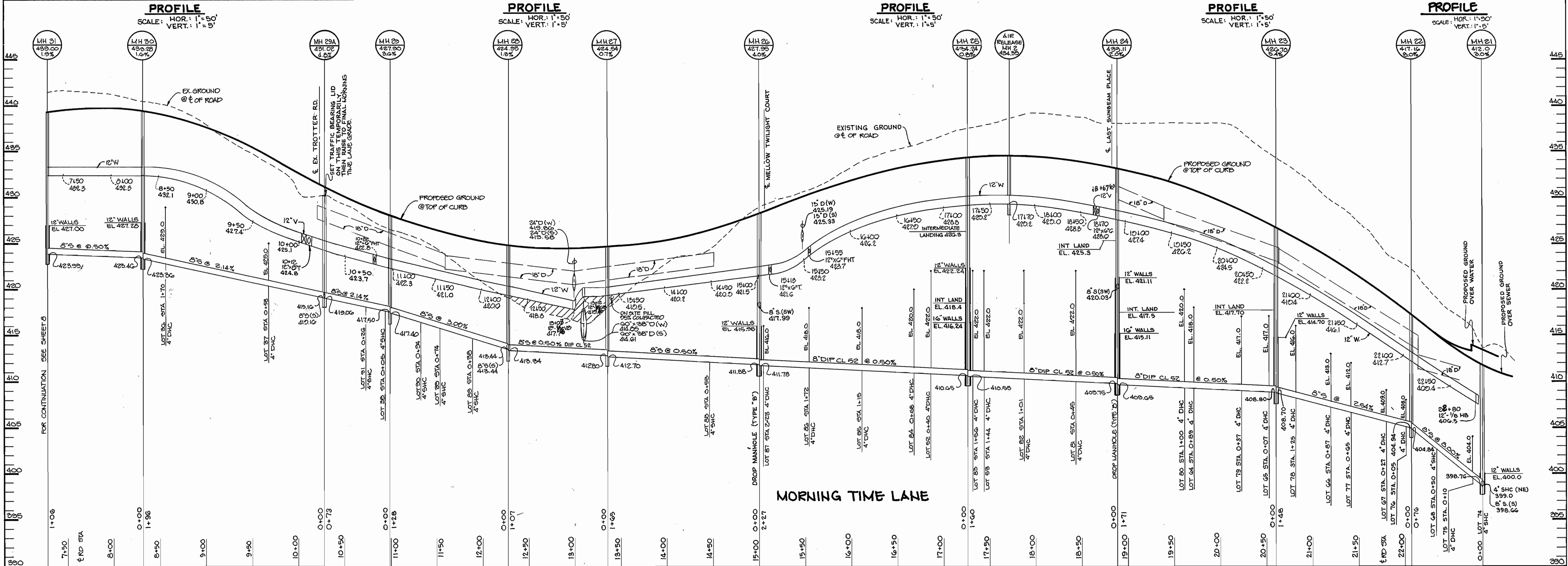
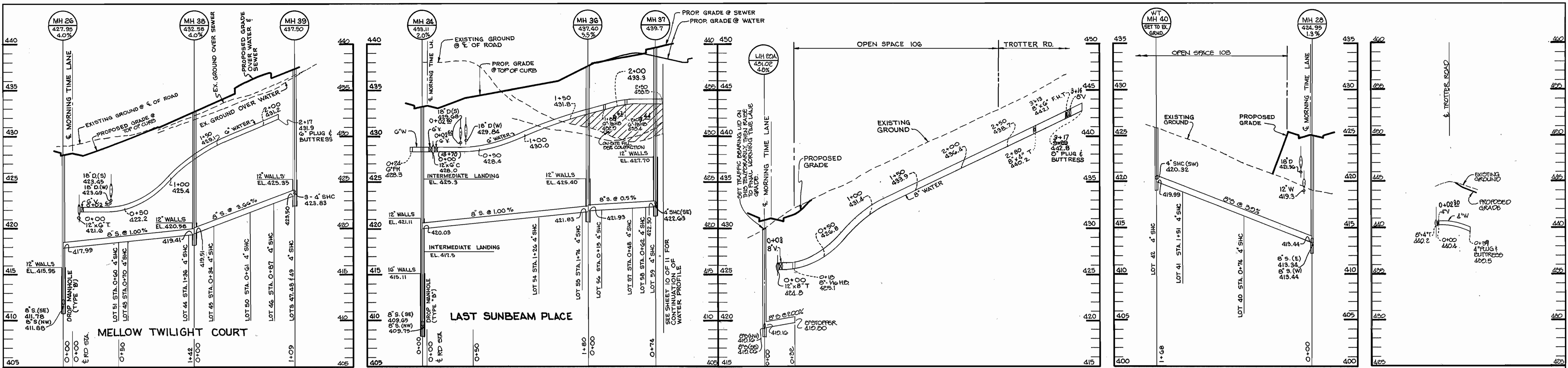
600' SCALE MAP NO. 35 BLOCK NO. 14

VILLAGE OF RIVER HILL
SECTION 2 AREA 3 PHASE 1
LOTS 1 THRU 10G
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 34-3296-D

SCALE AS SHOWN

SHEET 6 OF 11

AS - BUILT
 VRH 2/3
 ws/9
 3296

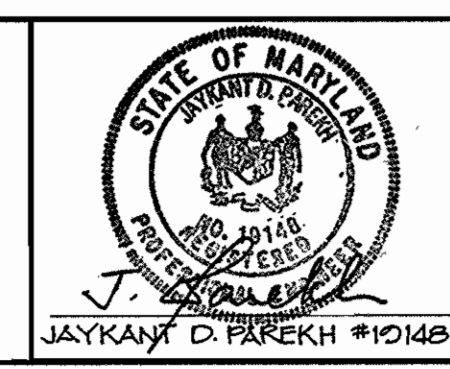


PROFILE
SCALE: HOR.: 1"=50'
VERT.: 1"=5'

WATER & SEWER AS-BUILTS

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: Robert W. Benjamin
 Chief, Bureau of Engineering: [Signature]
 Chief, Bureau of Utilities: [Signature]

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
 410-997-8900 FAX: 410-997-9282



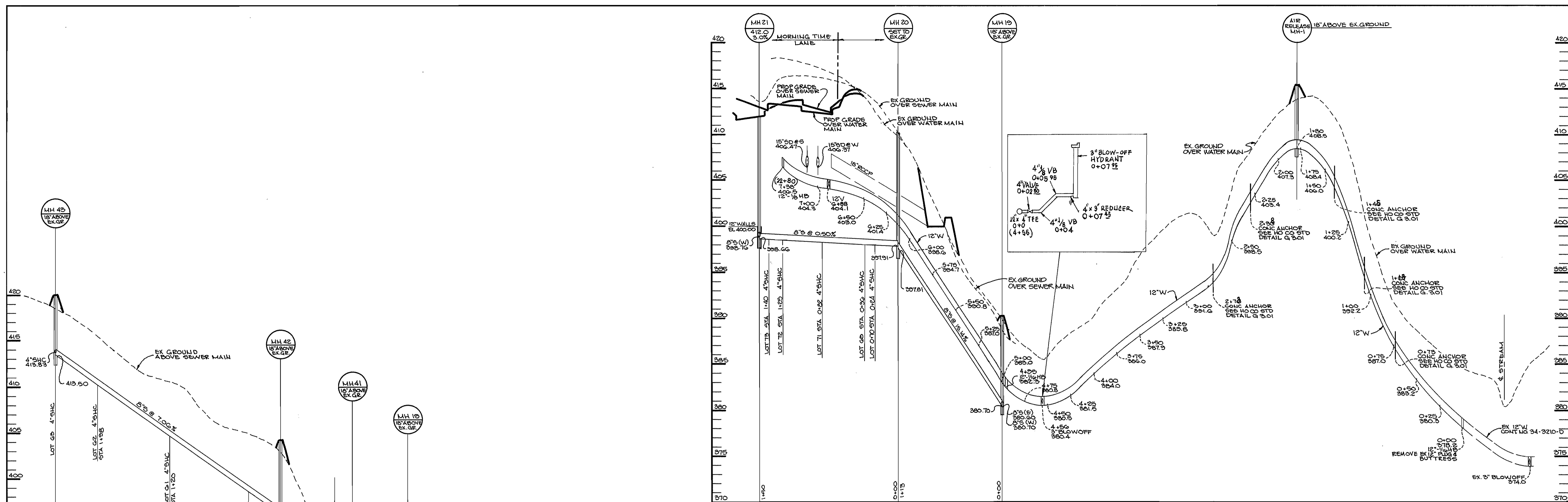
DES: DAM	DATE: 3-2-04
DRN: WOV	BY: NO.
CHK: CJR	REVISION
DATE: 3-2-04	DATE

PROFILES OF WATER AND SEWER MAINS
 600' SCALE MAP NO. 35 BLOCK NO. 14

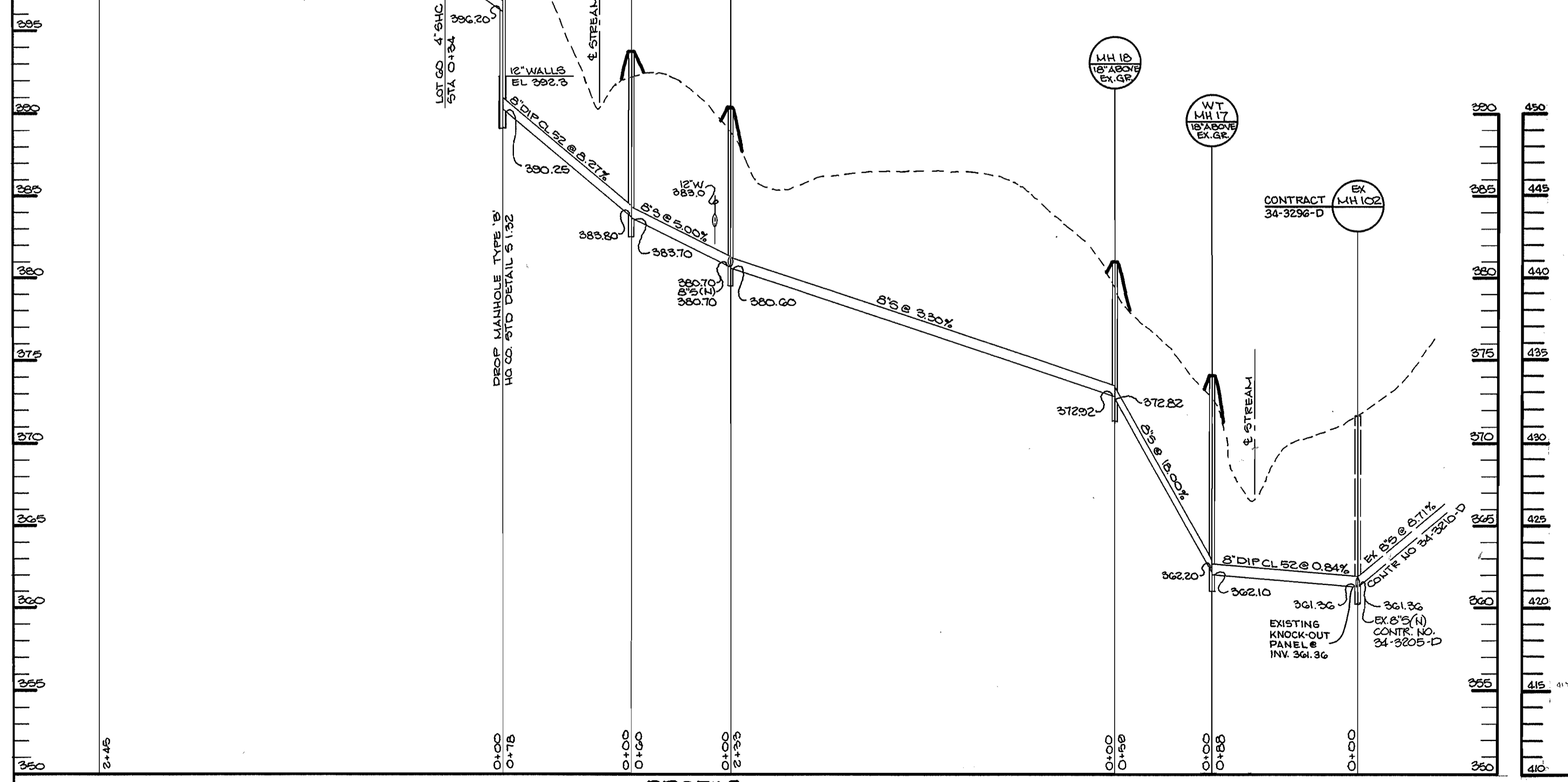
VILLAGE OF RIVER HILL
 SECTION 2 AREA 3 PHASE 1
 LOTS 1 THRU 106
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 34-3296-D
 SCALE AS SHOWN
 SHEET 3 OF 11

AS-BUILT

VRH 2/3
WS/10
OT/SM
3296



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



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

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

WATER & SEWER AS-BUILTS

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

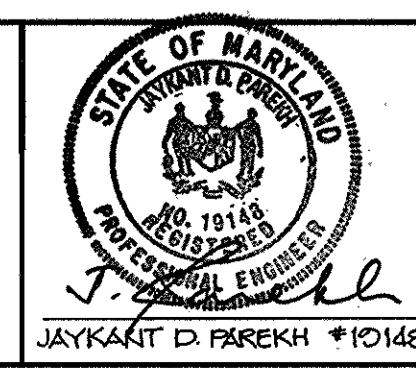
Director of Public Works: *James J. Smith* 3/18/94
Date: 3/18/94

Chief, Bureau of Engineering: *Robert W. Bennett* 3/18/94
Date: 3/18/94

Chief, Bureau of Utilities: *Robert W. Bennett* 3/18/94
Date: 3/18/94

Chief, Land Development: *Robert W. Bennett* 3/18/94
Date: 3/18/94

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282



DES: DAM					
DRN: WCW					
CHK: CJR					
DATE: 3-2-94	BY:	NO.:	REVISION:	DATE:	

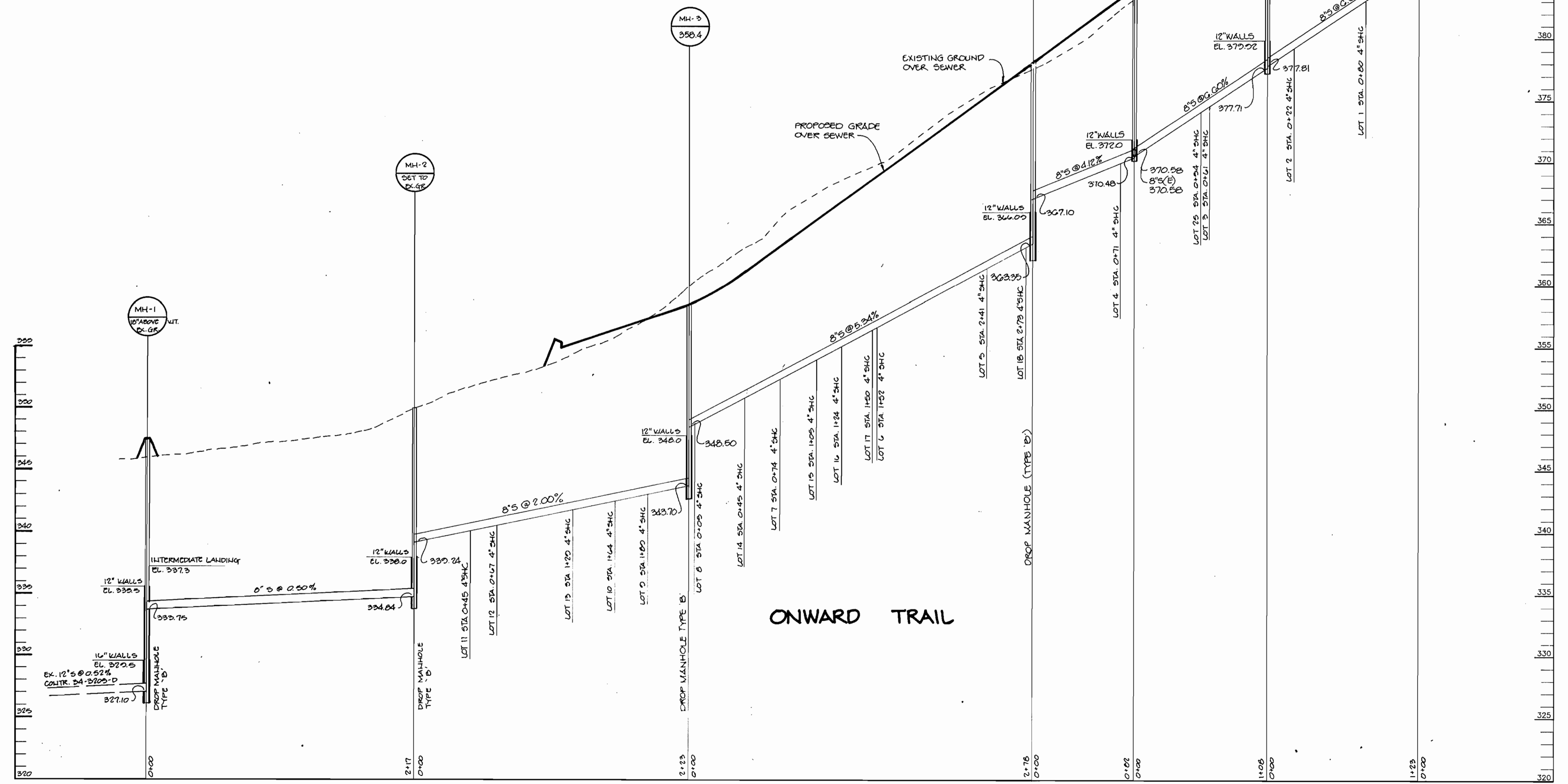
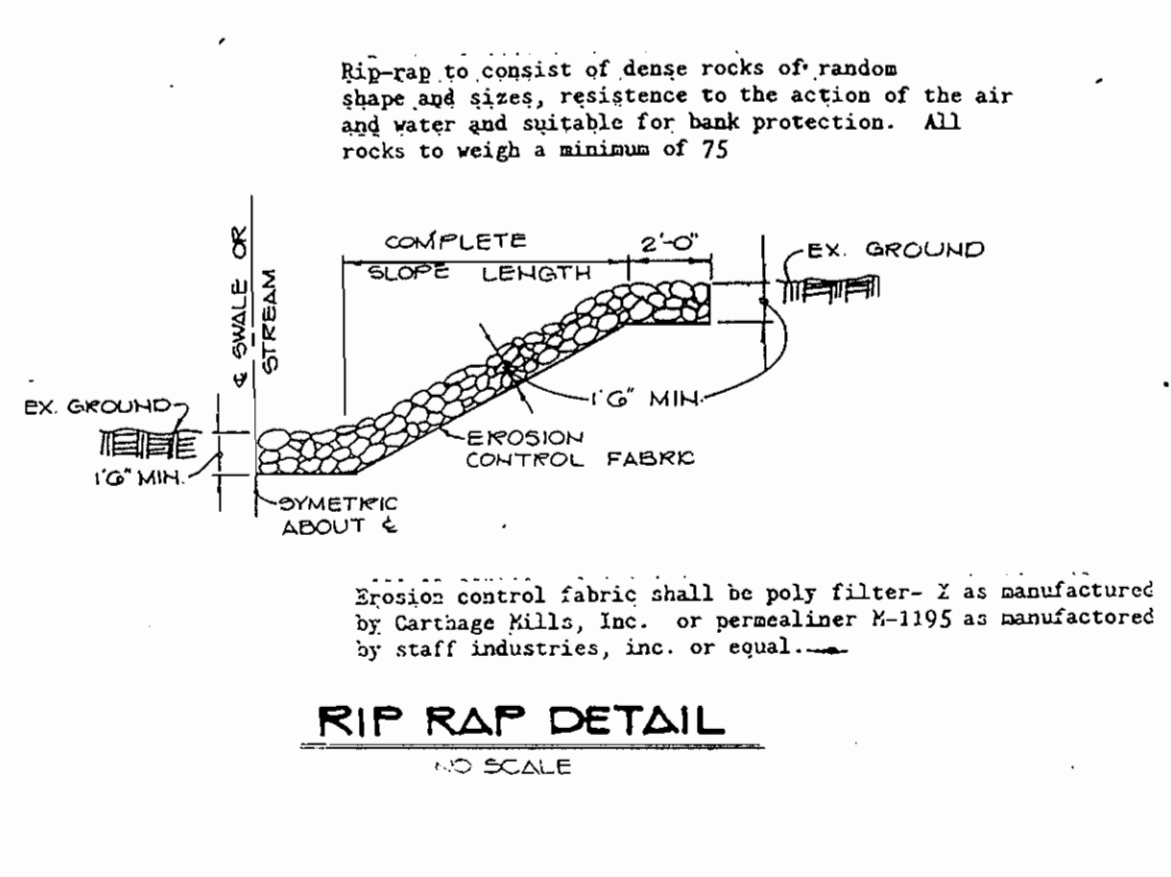
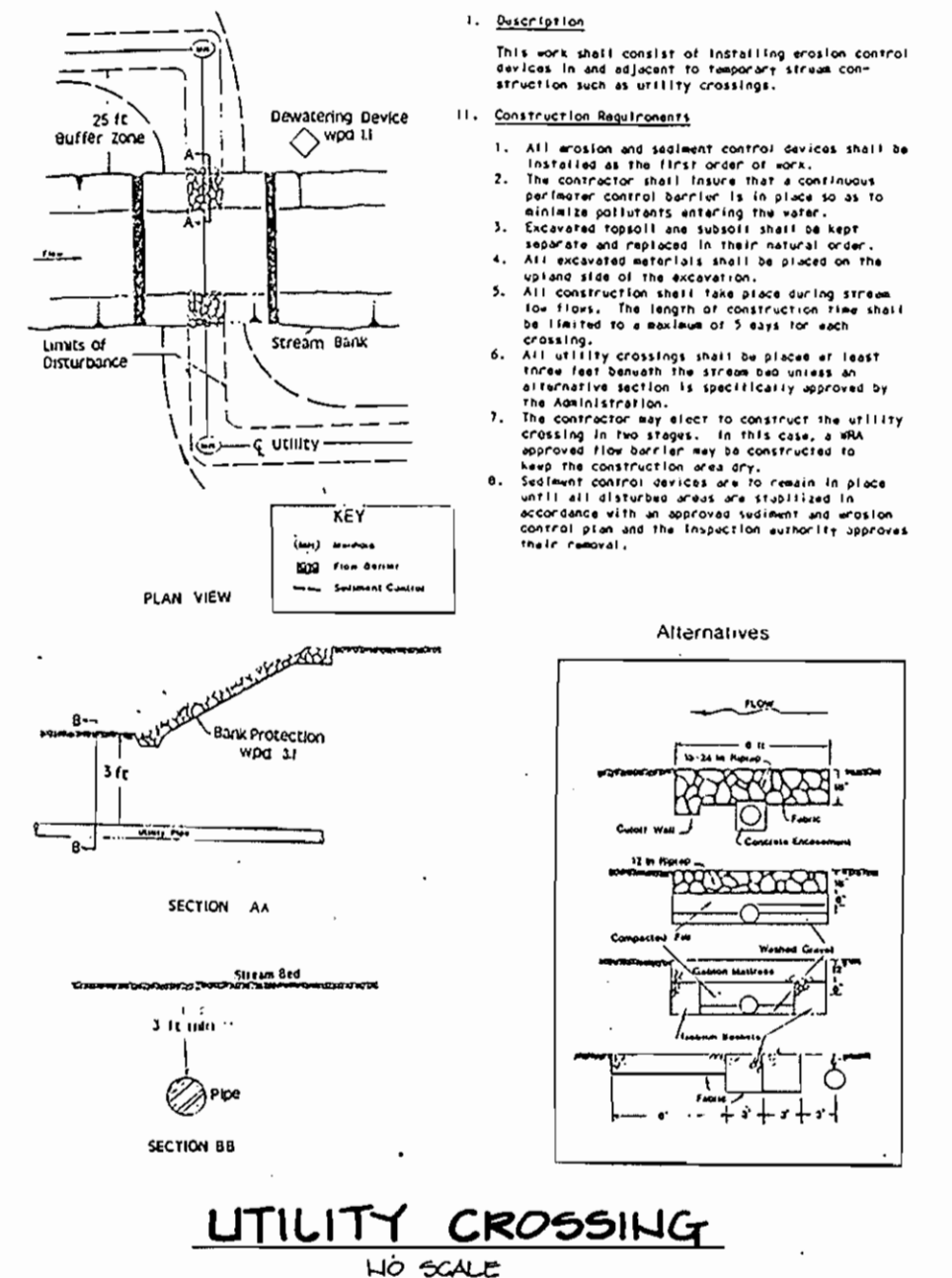
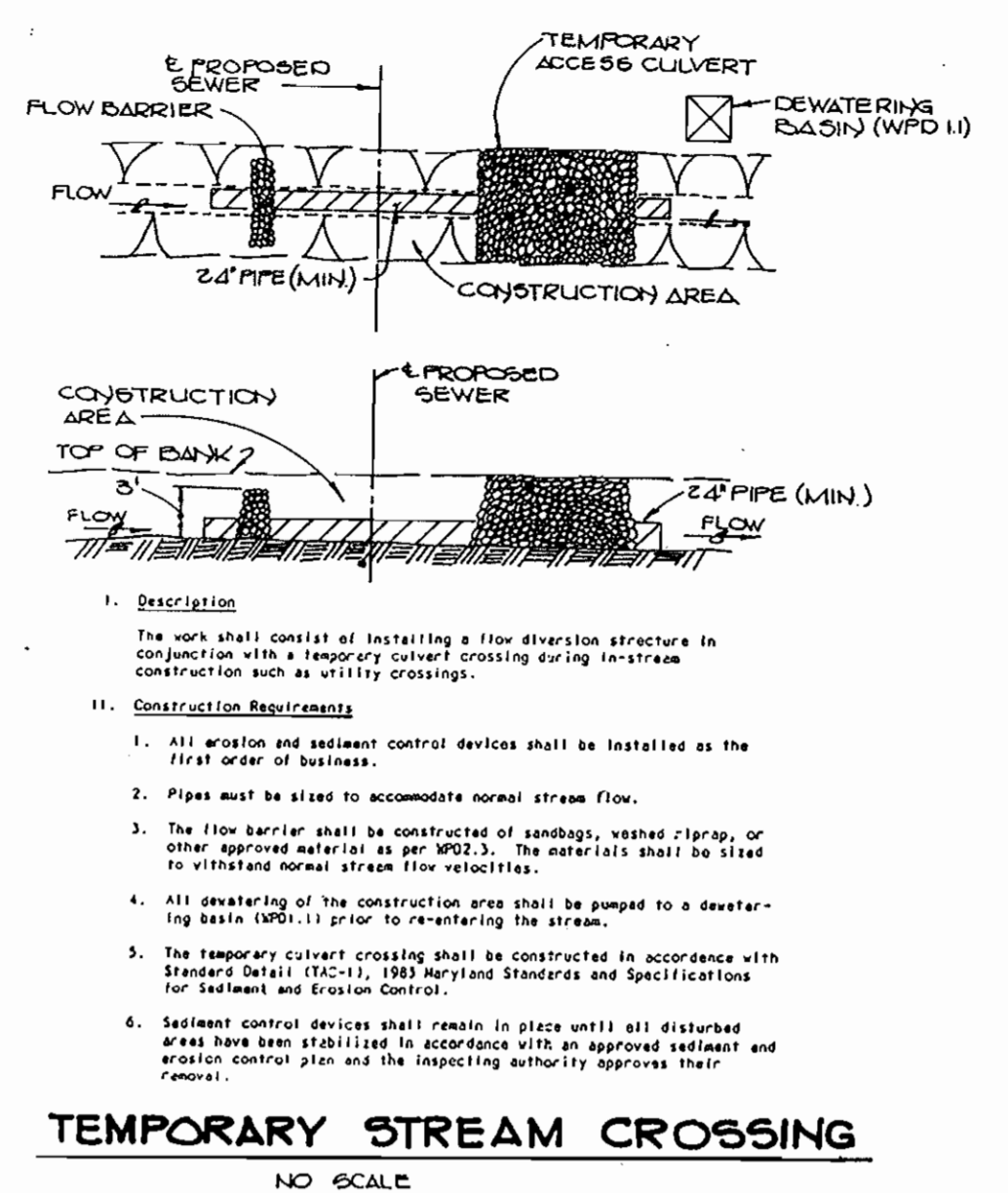
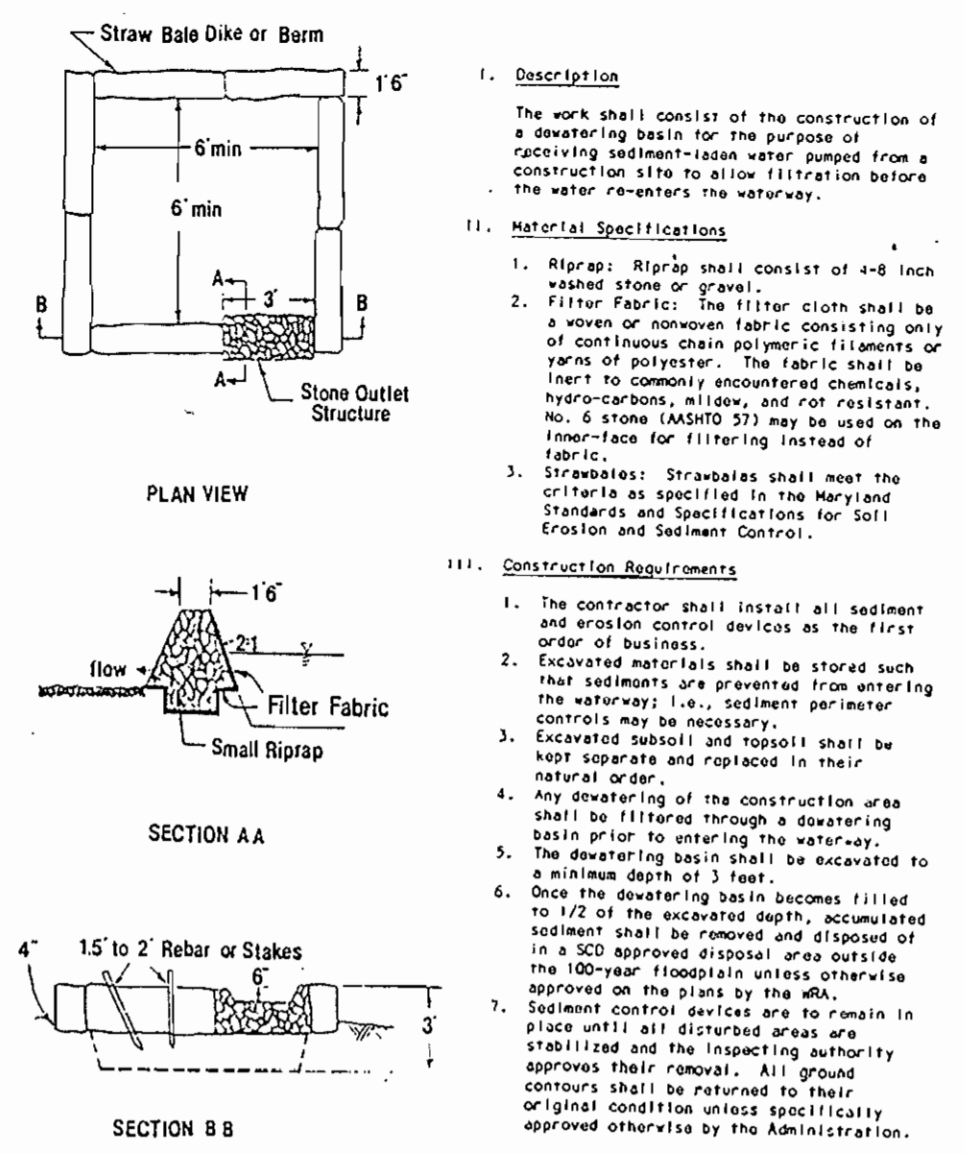
PROFILES OF
WATER AND SEWER MAINS

600' SCALE MAP NO. 35 BLOCK NO. 14

VILLAGE OF RIVER HILL
SECTION 2 AREA 3 PHASE 1
LOTS 1 THRU 10G
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 34-3296-D

SCALE AS SHOWN

SHEET 10 OF 11

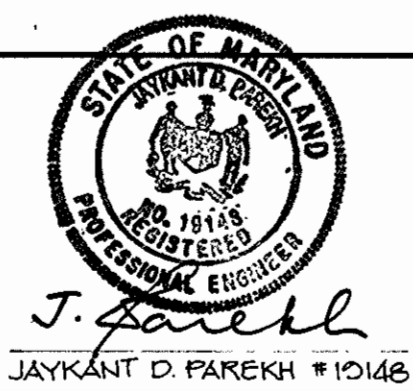


32976
 WS/11
 VRH 7/3

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. Lewis 3/18/94
DIRECTOR OF PUBLIC WORKS DATE
Robert J. Barry 3-9-94
CHIEF, BUREAU OF UTILITIES DATE

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8900 FAX: 410-997-9282



DES: DAM
DR: VSK
CHK: CJR
DATE: 3-2-94
BY: NO.
REVISION
DATE

PROFILES OF WATER AND SEWER MAINS

WATER & SEWER AS-BUILTS
VILLAGE OF RIVER HILL
SECTION 2 AREA 3 PHASE 1
LOTS 1 THRU 106
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 34-3296-D

SCALE AS SHOWN
SHEET 11 OF 11
3-9-95