

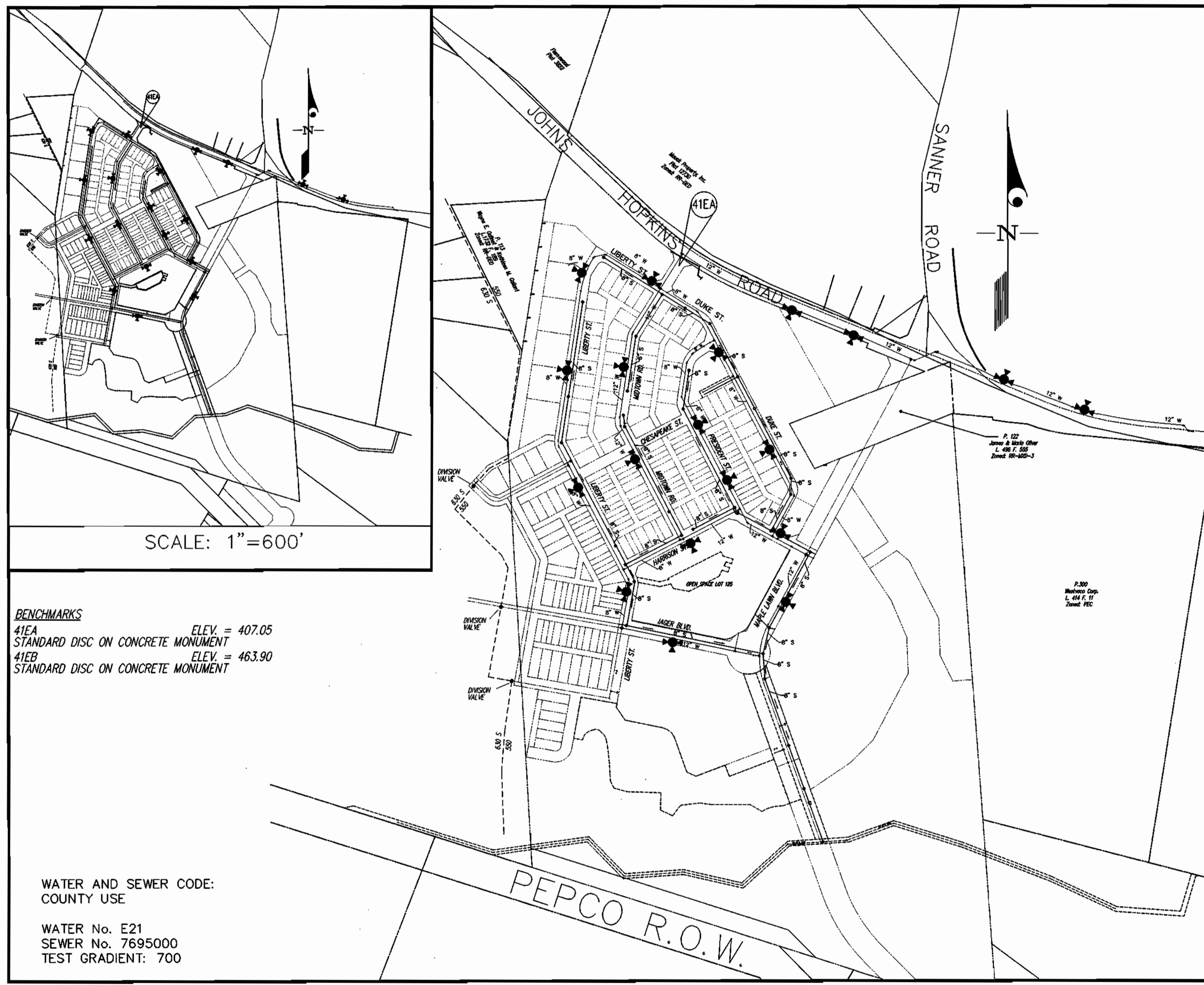
CONTRACT No. 24-4105-D
 MAPLE LAWN FARMS
 LOTS 1 THRU 120
 OPEN SPACE LOTS 121 THRU 127
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

TYPE OF BUILDING	SINGLE FAMILY
NUMBER OF UNITS	120
NUMBER OF S.H.C.'s	144
NUMBER OF W.H.C.'s	144
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	LITTLE PATUXENT WWTP

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
4" WATER	145 LF			
6" WATER (FH's)	273 LF			
8" WATER	4397 LF			
12" WATER	5364 LF			
1" WHC	1004 LF			
1 1/2" WHC	1537 LF			
12"x12" CROSS	1 EA			
12"x8" CROSS	2 EA			
12"x6" FHT	10 EA			
12"x6" T	1 EA			
12"x8" T	1 EA			
12"x12" T	6 EA			
12"x8" REDUCER	3 EA			
12" VALVE	16 EA			
12" CAP	3 EA			
12" PLUG	3 EA			
12" 1/32 UVB	1 EA			
12" 1/32 LVB	1 EA			
12" 1/8 HB	4 EA			
12" 1/16 HB	3 EA			
12" 1/32 HB	1 EA			
8" 1/8HB	4 EA			
8" 1/16HB	5 EA			
8" 1/32HB	2 EA			
8"x8" T	3 EA			
8"x6" T (FHT)	9 EA			
8"x4" T	1 EA			
8" VALVE	11 EA			
8" CAP	3 EA			
6" VALVE (FHV)	19 EA			
4" VALVE	1 EA			
4" CAP	1 EA			
FIRE HYDRANT - 4.5'	4 EA			
FIRE HYDRANT - 5.0'	12 EA			
FIRE HYDRANT - 5.5'	3 EA			
8" PVC SEWER	7071 LF			
8" D.I. SEWER	228 LF			
6" PVC (SHC)	108 LF			
4" PVC (SHC)	3860 LF			
MH's	39 EA			
DROP	2 EA			
8" STOPPER	7 EA			

NAME OF UTILITY CONTRACTOR: _____

SURVEY AND DRAFTING DIV. CHECKBOX: AS-BUILT DATE: _____



SCALE: 1"=600'

BENCHMARKS
 41EA STANDARD DISC ON CONCRETE MONUMENT ELEV. = 407.05
 41EB STANDARD DISC ON CONCRETE MONUMENT ELEV. = 463.90

WATER AND SEWER CODE:
 COUNTY USE

WATER No. E21
 SEWER No. 7695000
 TEST GRADIENT: 700

VICINITY MAP
 SCALE: 1"=300'

GENERAL NOTES

- PART I
- Approximate locations 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, NAD 83/91.
 - All vertical controls are based on NAVD 88.
 - All pipe elevations shown are invert elevations unless otherwise noted on the plans.
 - Clear all utilities by a minimum of 12". Clear all poles by 5'-0" minimum or as required unless otherwise noted. 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 the bracing of additional poles or damages shall be deducted from monies 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 Details 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 locations 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.
 - The contractor shall notify the following utility companies or agencies at least (5) working days before starting work shown on these plans:

AT&T	1-800-252-1133
BGE (Contractor Services)	410-850-4620
BGE (Under Ground Damage Control)	410-787-9068
Bureau of Utilities	410-313-4900
Colonial Pipeline Co.	410-795-1390
Miss Utility	1-800-257-7777
State Highway Administration	410-531-5533
Verizon	1-800-743-0033/410-224-9210
 - 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.
 - The 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.
 - The contractor shall notify the Bureau of Highways, Howard County, at 410-313-2450 at least five (5) working days before any open cutting or boring/jacking of any County road or boring/jacking operation on County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirement per Section 18.114(a) of the Howard County Code.
 - All buildable lots shown hereon shall have one (1) foot wide public easement adjacent to the Public Road Right of Way, for the purpose of sidewalk maintenance, water house connection and sewer house connection.
- PART II - WATER
- All water mains to be D.I.P. Class 52 unless otherwise noted.
 - Tops of all water mains shall have a minimum of 3'-6" 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 installed 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.
- PART III - SEWER
- 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.
 - Force mains shall be D.I.P. only.
 - Manholes shown with 12" and 16" walls are for brick manholes only.
 - Manholes designated W.T. in plan and profile shall have watertight frame and cover, Standard Detail G5.52. Where watertight manhole frames and covers are 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 the cellar cannot be served.

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Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications, with Road Drawings Plan F-03-090; Drawings 13 thru 21 for Sediment & Erosion Control, and with these plans.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

John P. Robertson 5/7/03
 SIGNATURE DATE

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

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

APPROVED
John P. Robertson 5/7/03
 HOWARD S.C.D. DATE



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

R. L. ... 5-5-03
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

... 5/4/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE, SUITE 250 - BURTOWNSVILLE OFFICE PARK
 BURTOWNSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BALT: 410-890-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



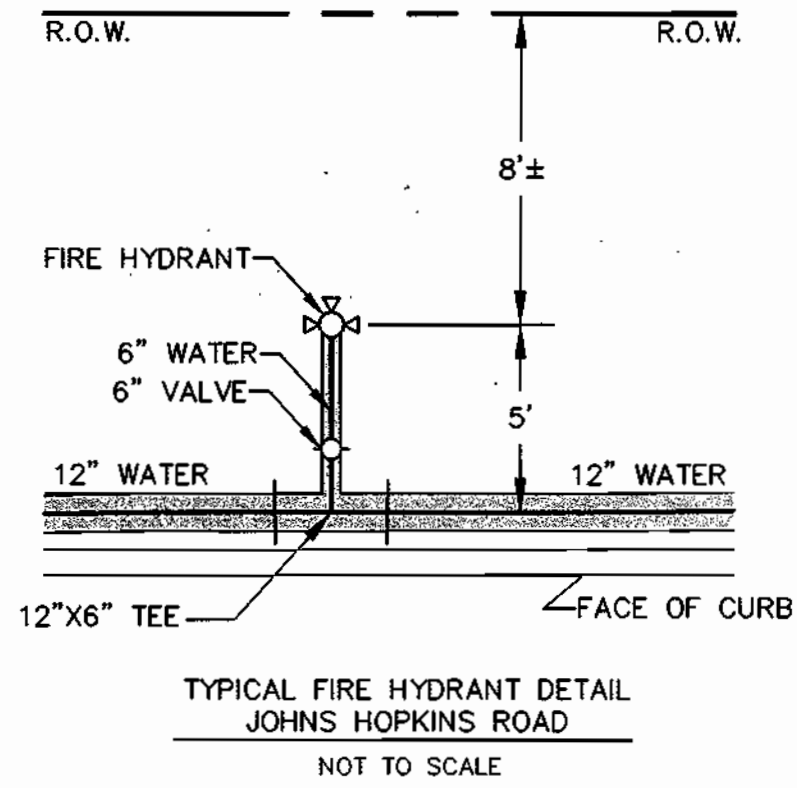
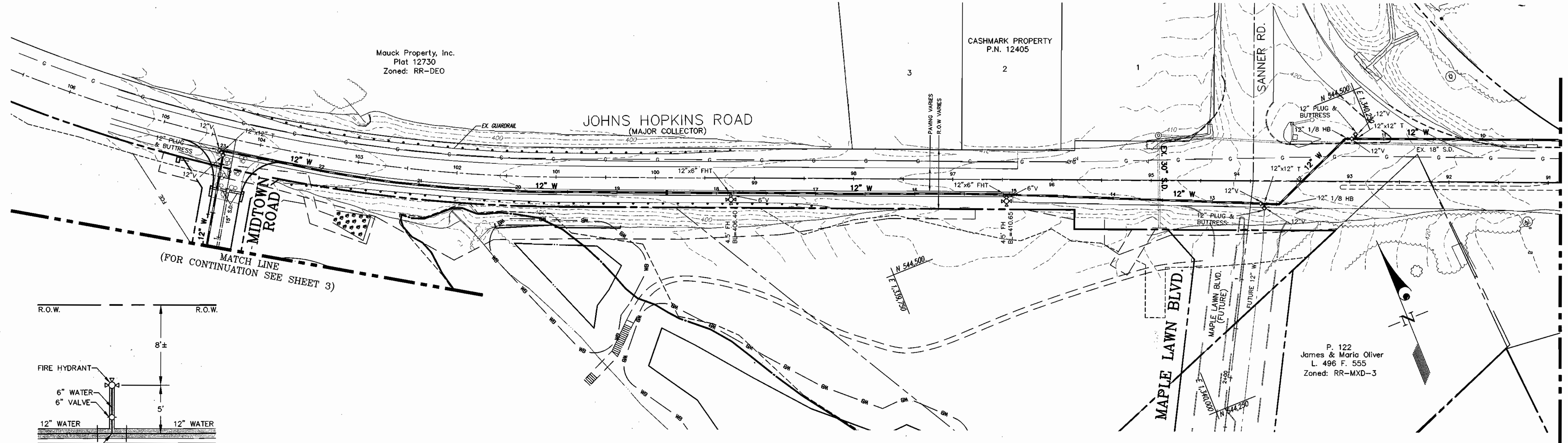
DES: BB					
DRN: VAR					
CHK: CKG					
DATE: 4/03	BY: NO	REVISION	DATE	600' SCALE MAP NO. 46	BLOCK NO. 4

TITLE SHEET
 SCALE: AS SHOWN

MAPLE LAWN FARMS
 MIDTOWN DISTRICT - AREA 1
 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
 COMMON OPEN AREAS 128 THRU 132 AND
 PARCELS 'A', 'B', & 'C'
 P. 121, P. 450 AND P. 205
 CONTRACT No. 24-4105-D
 5TH ELECTION DISTRICT

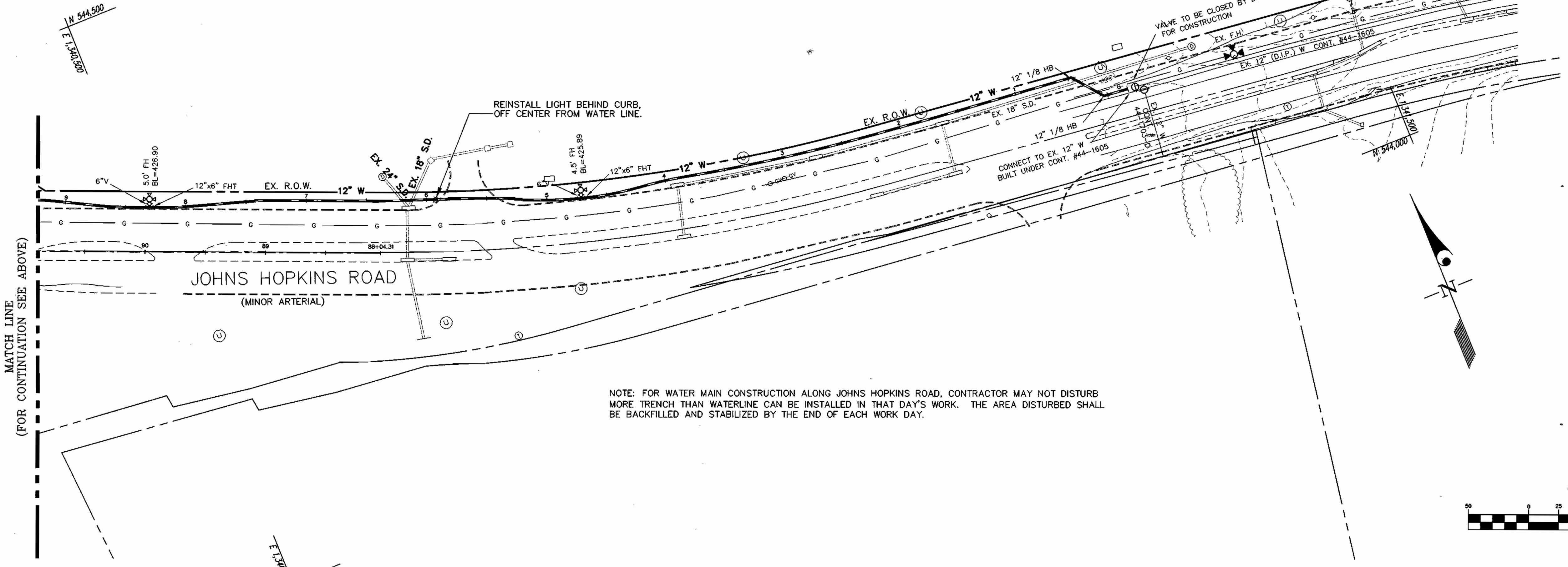
SCALE AS SHOWN
 SHEET 1 OF 11

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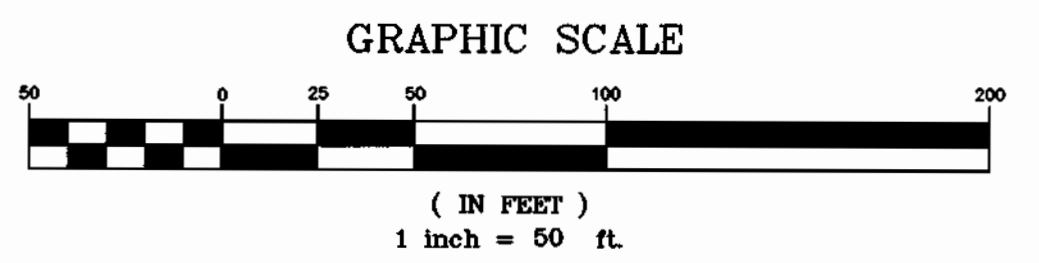


MATCH LINE
(FOR CONTINUATION SEE SHEET 3)

MATCH LINE
(FOR CONTINUATION SEE BELOW)



NOTE: FOR WATER MAIN CONSTRUCTION ALONG JOHNS HOPKINS ROAD, CONTRACTOR MAY NOT DISTURB MORE TRENCH THAN WATERLINE CAN BE INSTALLED IN THAT DAY'S WORK. THE AREA DISTURBED SHALL BE BACKFILLED AND STABILIZED BY THE END OF EACH WORK DAY.



GLW FILE #02001

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert Deane
5-5-03
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
John Deane
DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-988-2524 FAX: 301-421-4186



DES: BB				
DRN: VAR				
CHK: CKG				
DATE: 4/03	BY	NO	REVISION	DATE

WATER and SEWER EXTENSION PLAN
600' SCALE MAP NO. 46 BLOCK NO. 4

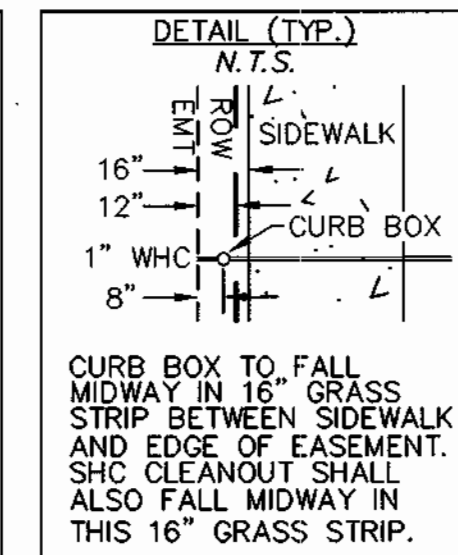
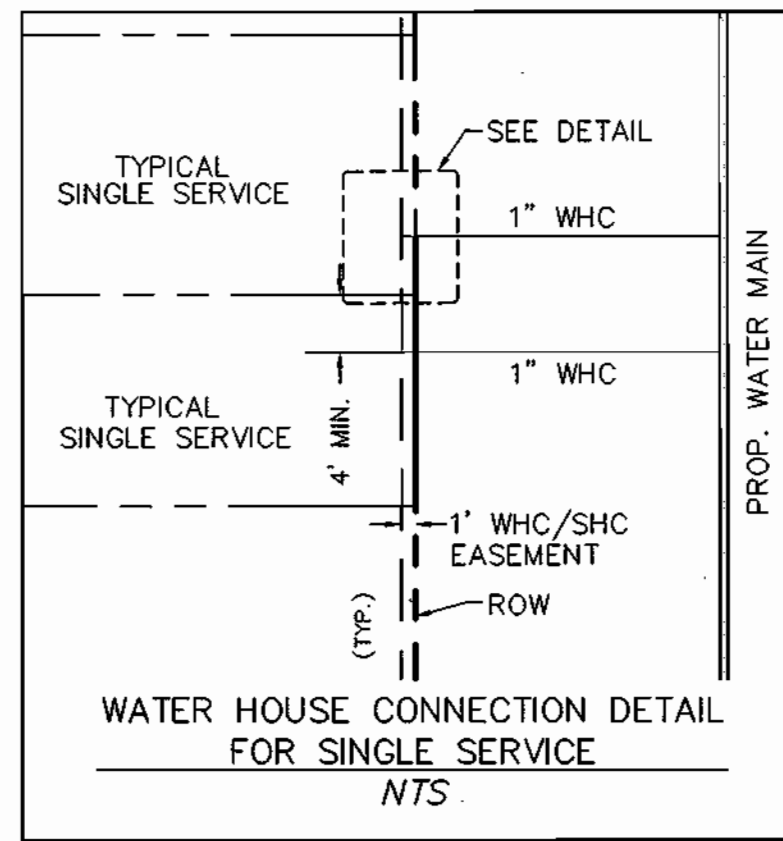
MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

SCALE AS SHOWN
SHEET 2 OF 11

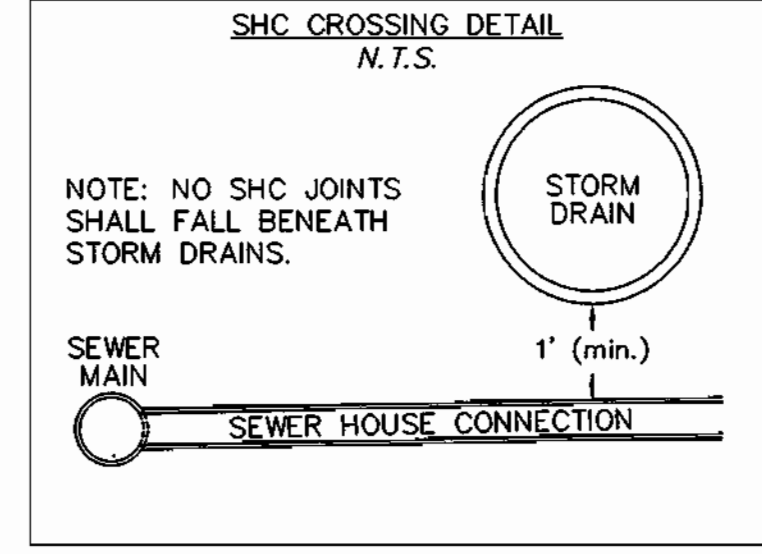
All buildable lots shown herein shall have a one (1) foot wide public easement adjacent to the Public Road Right of Way, for the purpose of sidewalk maintenance, water house connections and sewer house connections.

SEWER HOUSE CONNECTIONS
MINIMUM CELLAR ELEVATIONS and INVERT ELEVATION @ R

LOT	MINIMUM CELLAR ELEVATION	ELEVATION @ PROP. LINE	LOT	MINIMUM CELLAR ELEVATION	ELEVATION @ PROP. LINE	LOT	MINIMUM CELLAR ELEVATION	ELEVATION @ PROP. LINE
1	411.21	407.47	54	400.44	397.21	107	408.03	404.89
2	411.34	407.63	55	400.16	396.93	108	407.46	404.32
3	412.61	408.58	56	405.89	402.71	109	406.46	402.78
4	414.50	410.87	57	406.19	402.94	110	407.48	404.31
5	415.92	412.27	58	406.47	403.25	111	407.68	404.52
6	417.04	413.43	59	406.78	403.54	112	407.88	404.72
7	417.79	414.14	60	407.32	404.08	113	408.07	404.91
8	418.57	415.00	61	407.58	404.40	114	408.32	405.12
9	419.11	415.46	62	407.87	404.73	115	408.55	405.32
10	419.76	416.13	63	408.20	405.04	116	408.83	405.59
11	420.44	416.79	64	408.56	405.38	117	409.07	405.81
12	421.08	417.45	65	408.18	405.94	118	409.14	406.00
13	421.76	418.28	66	408.71	405.55	119	409.36	406.19
14	419.15	415.79	67	408.42	405.24	120	409.62	406.41
15	417.16	413.80	68	408.12	404.93	133	399.90	396.74
16	415.13	411.73	69	407.81	404.62	134	399.17	395.54
17	413.07	409.71	70	407.37	404.16	135	398.91	395.22
18	411.09	407.69	71	406.90	403.71	136	397.90	394.36
19	407.20	403.74	72	407.02	403.80	137	397.15	394.03
20	413.13	409.55	73	406.40	403.22	138	398.86	395.74
21	415.85	412.24	74	406.08	402.92	139	403.17	399.84
22	416.32	412.67	75	405.79	402.59	140	404.12	400.96
23	417.08	413.45	76	404.52	401.13	141	404.37	401.12
24	417.84	414.19	77	410.67	407.51	142	404.75	401.58
25	418.57	414.94	78	411.20	408.04	143	404.97	401.72
26	419.11	415.60	79	412.13	408.87	144	405.31	402.06
27	419.21	415.61	80	413.11	409.91	145	(FUTURE)	422.11
28	417.99	414.23	81	413.67	410.51	146	(FUTURE)	418.78
29	417.19	413.73	82	414.08	410.87	147	(FUTURE)	417.50
30	417.17	413.54	83	414.11	410.61	148	(FUTURE)	415.71
31	419.03	415.35	84	413.92	410.76	149	(FUTURE)	413.94
32	418.81	415.22	85	414.13	410.95	150	(FUTURE)	410.26
33	418.22	414.57	86	414.34	411.14	151	411.90	408.64
34	417.38	413.75	87	414.57	411.37	171	406.70	403.54
35	416.68	413.03	88	414.97	411.77	172	406.38	403.22
36	414.31	410.68	89	415.15	411.97	173	406.26	403.10
37	413.37	409.39	90	415.35	412.17	174	404.95	401.83
38	406.64	403.39	91	415.57	412.39	175	403.21	400.09
39	406.62	403.10	92	415.79	412.59	176	402.99	399.87
40	406.36	403.10	93	416.19	412.91	177	402.66	399.54
41	404.34	400.93	94	415.87	412.68	178	402.76	399.64
42	401.98	398.64	95	415.66	412.47	179	402.87	399.75
43	412.50	408.74	96	415.46	412.27	180	409.37	405.57
44	412.06	408.56	97	415.29	412.00	181	409.04	405.24
45	411.42	407.83	98	414.98	411.69	182	408.57	404.77
46	411.23	407.63	99	414.62	411.44	183	408.27	404.47
47	411.05	407.29	100	414.45	411.25	184	407.82	404.02
48	410.53	407.27	101	414.28	411.07	185	407.09	403.39
49	409.07	405.77	102	414.14	410.73	186	406.63	402.83
50	407.66	404.28	103	411.49	408.19	187	406.41	402.61
51	405.97	402.55	104	410.60	407.44	188	406.17	402.37
52	404.40	401.02	105	409.98	406.66	189	405.94	402.14
53	400.54	396.85	106	408.99	405.67			

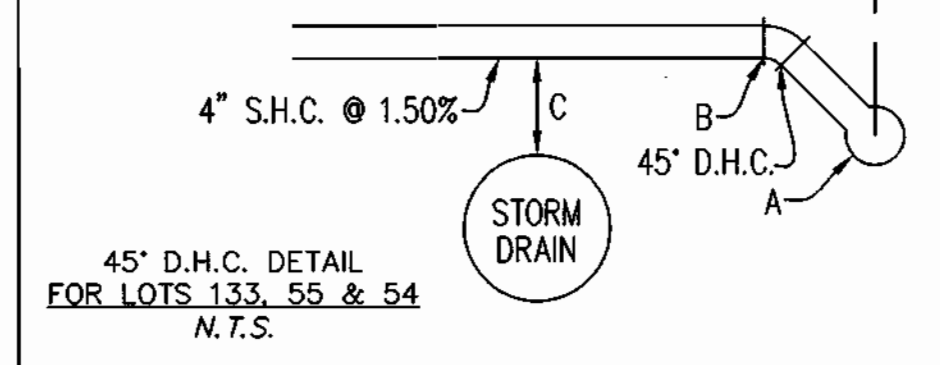


NOTE: CONTRACTOR SHALL PLACE ALL CLEAN OUTS AND CURB BOXES CAREFULLY SO THAT THEY FALL ENTIRELY WITHIN THE 16" STRIP, AS SHOWN. ANY CLEAN OUTS OR CURB BOXES FALLING EVEN PARTIALLY BEYOND THE 12" EASEMENT OR WITHIN THE SIDEWALK WILL HAVE TO BE ADJUSTED.

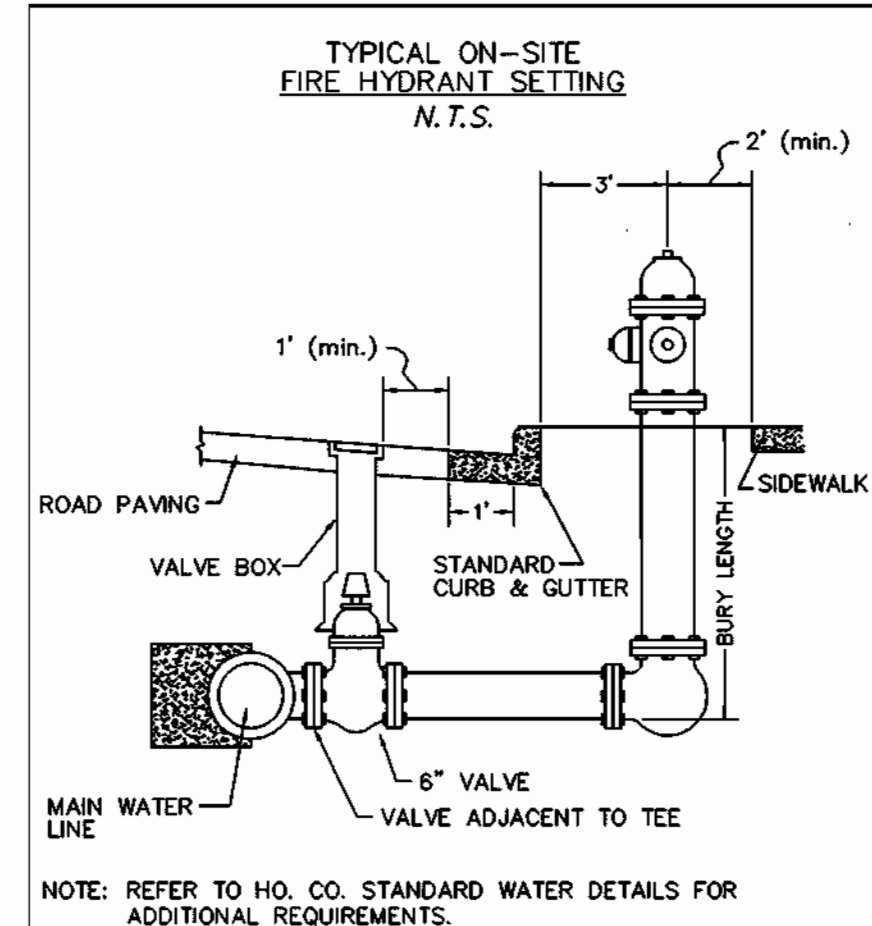


NOTE: NO SHC JOINTS SHALL FALL BENEATH STORM DRAINS.

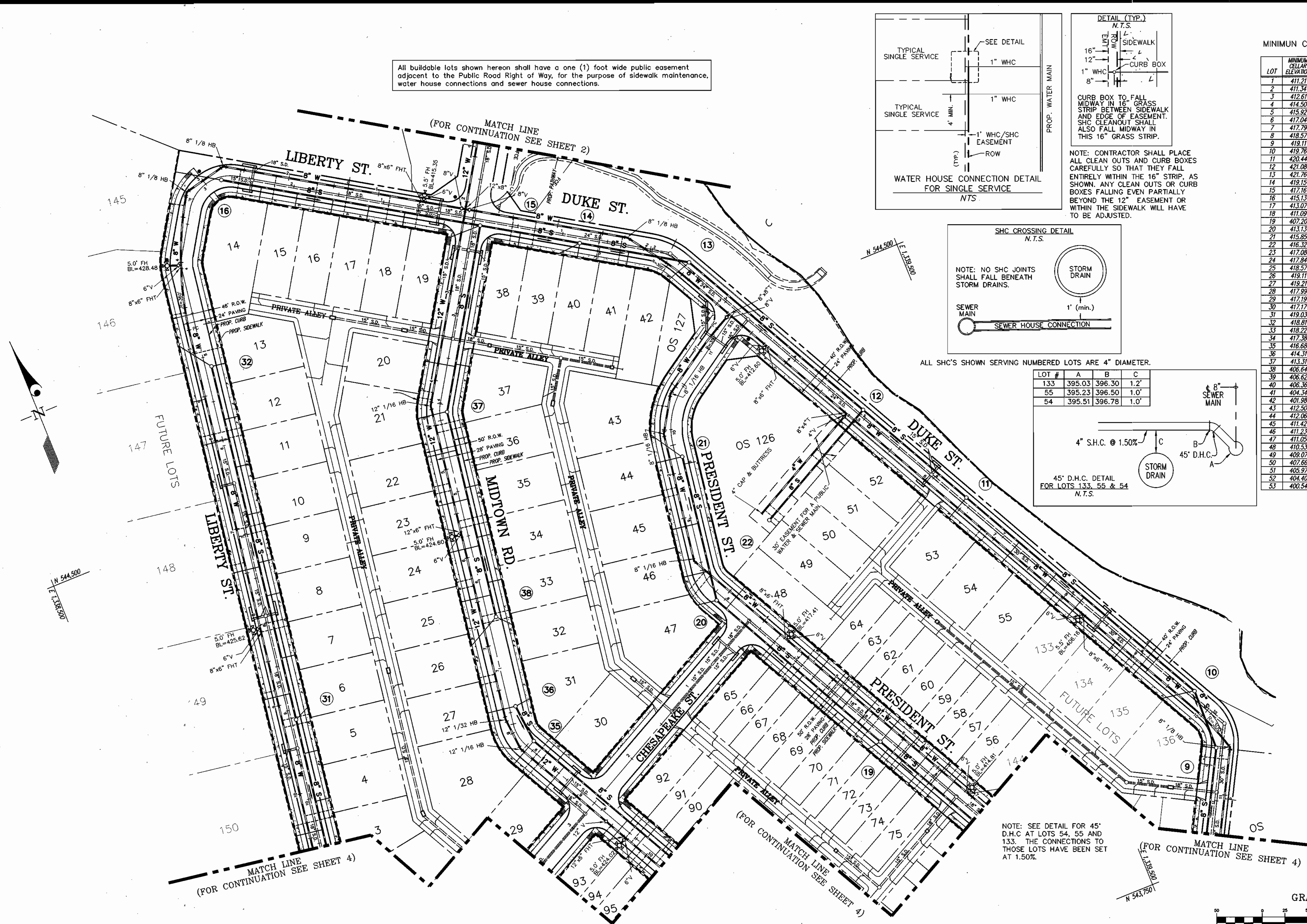
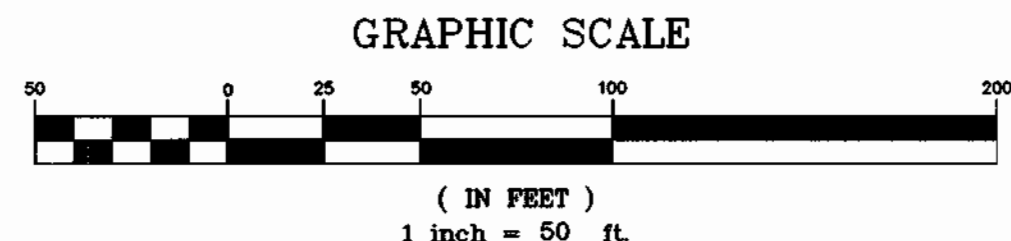
LOT #	A	B	C
133	395.03	396.30	1.2'
55	395.23	396.50	1.0'
54	395.51	396.78	1.0'



ALL SHC'S SHOWN SERVING NUMBERED LOTS ARE 4" DIAMETER.



NOTE: REFER TO HO. CO. STANDARD WATER DETAILS FOR ADDITIONAL REQUIREMENTS.



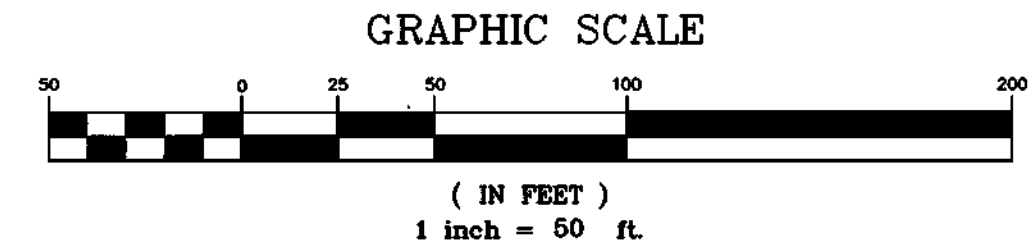
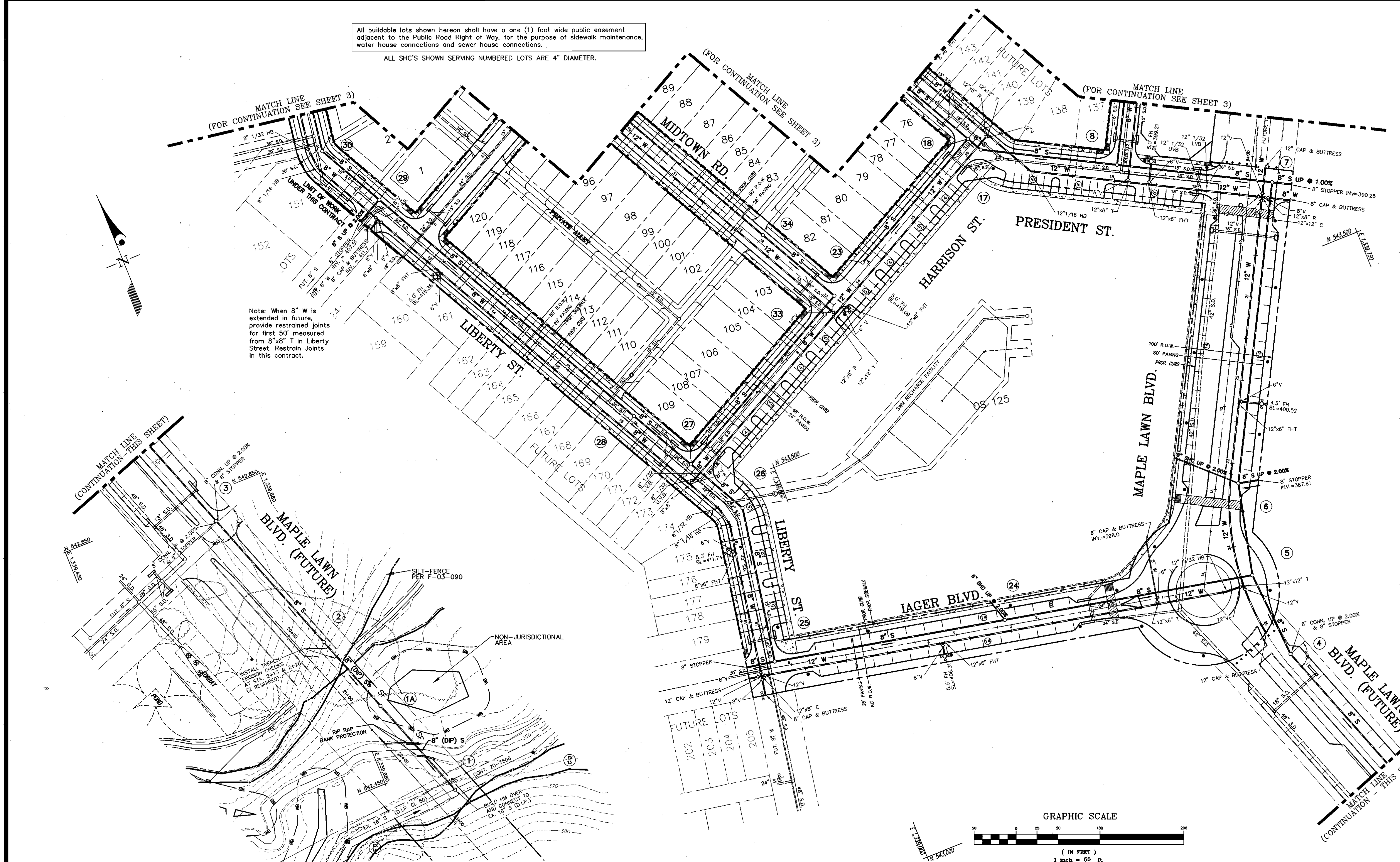
NOTE: SEE DETAIL FOR 45" D.H.C. AT LOTS 54, 55 AND 133. THE CONNECTIONS TO THOSE LOTS HAVE BEEN SET AT 1.50%.

THIS SHEET SUPERCEDES THE SHEET SIGNED ON 5/14/03.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Chief, Bureau of Utilities 1-27-04	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND Chief, Development Engineering Division 1/30/04	GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4188	DES: BB DRN: VAR CHK: CKG DATE: 4/03	WATER and SEWER EXTENSION 600' SCALE MAP NO. 46 BLOCK NO. 4	MAPLE LAWN FARMS MIDTOWN DISTRICT - AREA 1 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127 COMMON OPEN AREAS 128 THRU 132 AND PARCELS 'A', 'B', & 'C' P. 121, P. 450 and P. 205 CONTRACT No. 24-4105-D 5TH ELECTION DISTRICT	SCALE 1"=50' SHEET 3 OF 11
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All buildable lots shown hereon shall have a one (1) foot wide public easement adjacent to the Public Road Right of Way, for the purpose of sidewalk maintenance, water house connections and sewer house connections.
 ALL SHC'S SHOWN SERVING NUMBERED LOTS ARE 4" DIAMETER.

Note: When 8" W is extended in future, provide restrained joints for first 50' measured from 8"x8" T in Liberty Street. Restrain Joints in this contract.



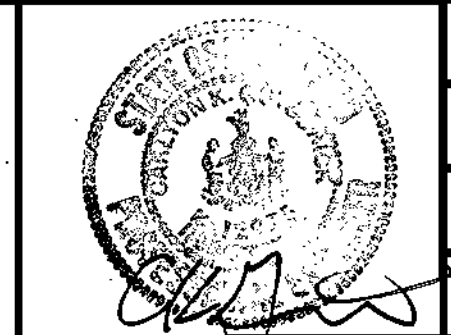
THIS SHEET SUPERCEDES THE SHEET SIGNED ON 5/14/03.

GLW FILE #02001

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 R. J. Beisinger 1-27-04
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 [Signature] 1/30/04
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BIRTONVILLE OFFICE PARK
 BIRTONVILLE, MARYLAND 20866
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4196



DES: BB	BY NO	REVISION	DATE
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DATE: 4/03			

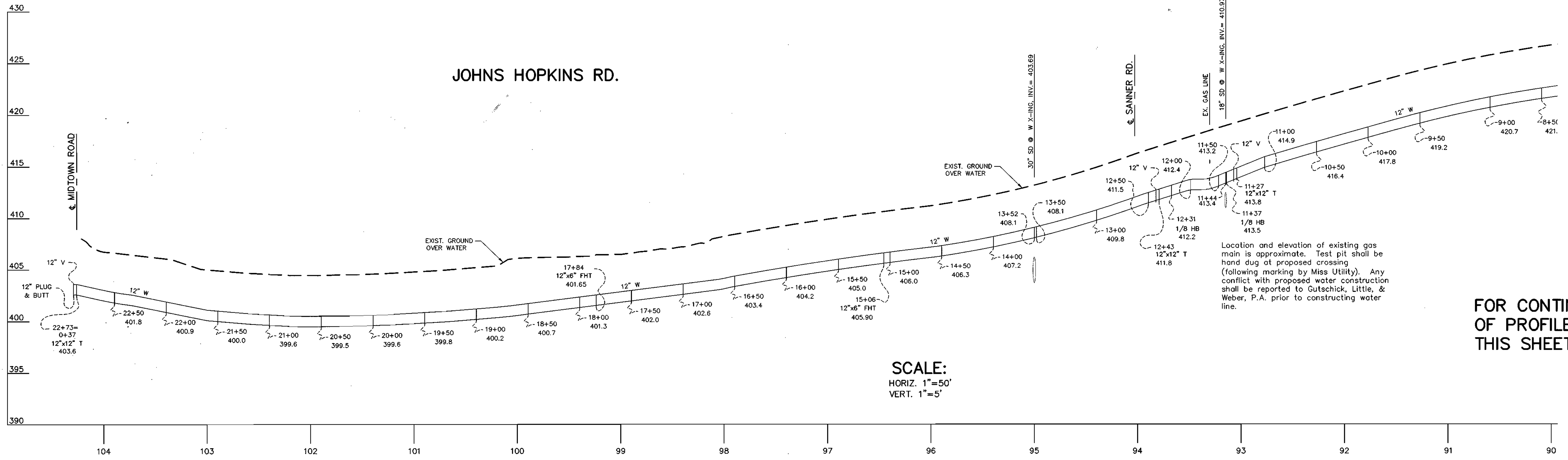
WATER and SEWER EXTENSION PLAN
 600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
 MIDTOWN DISTRICT - AREA 1
 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
 COMMON OPEN AREAS 128 THRU 132 AND
 PARCELS 'A', 'B', & 'C'
 P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
 5TH ELECTION DISTRICT

SCALE 1"=50'
 SHEET 4 OF 11

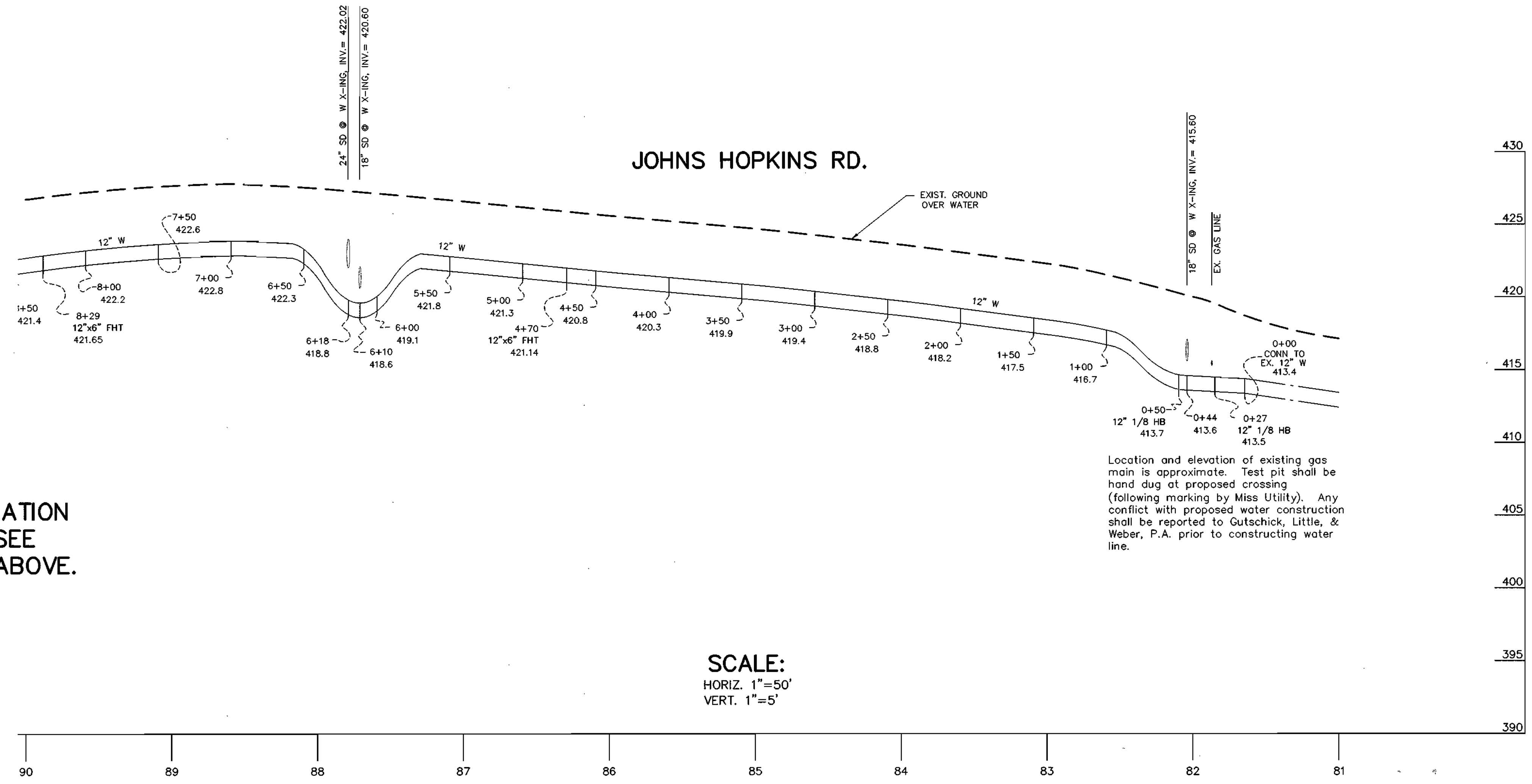
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FOR CONTINUATION OF PROFILE SEE THIS SHEET BELOW.

SCALE:
HORIZ. 1"=50'
VERT. 1"=5'



FOR CONTINUATION OF PROFILE SEE THIS SHEET ABOVE.

SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

GLW FILE #02001

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT ENGINEERING DIVISION

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20868
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



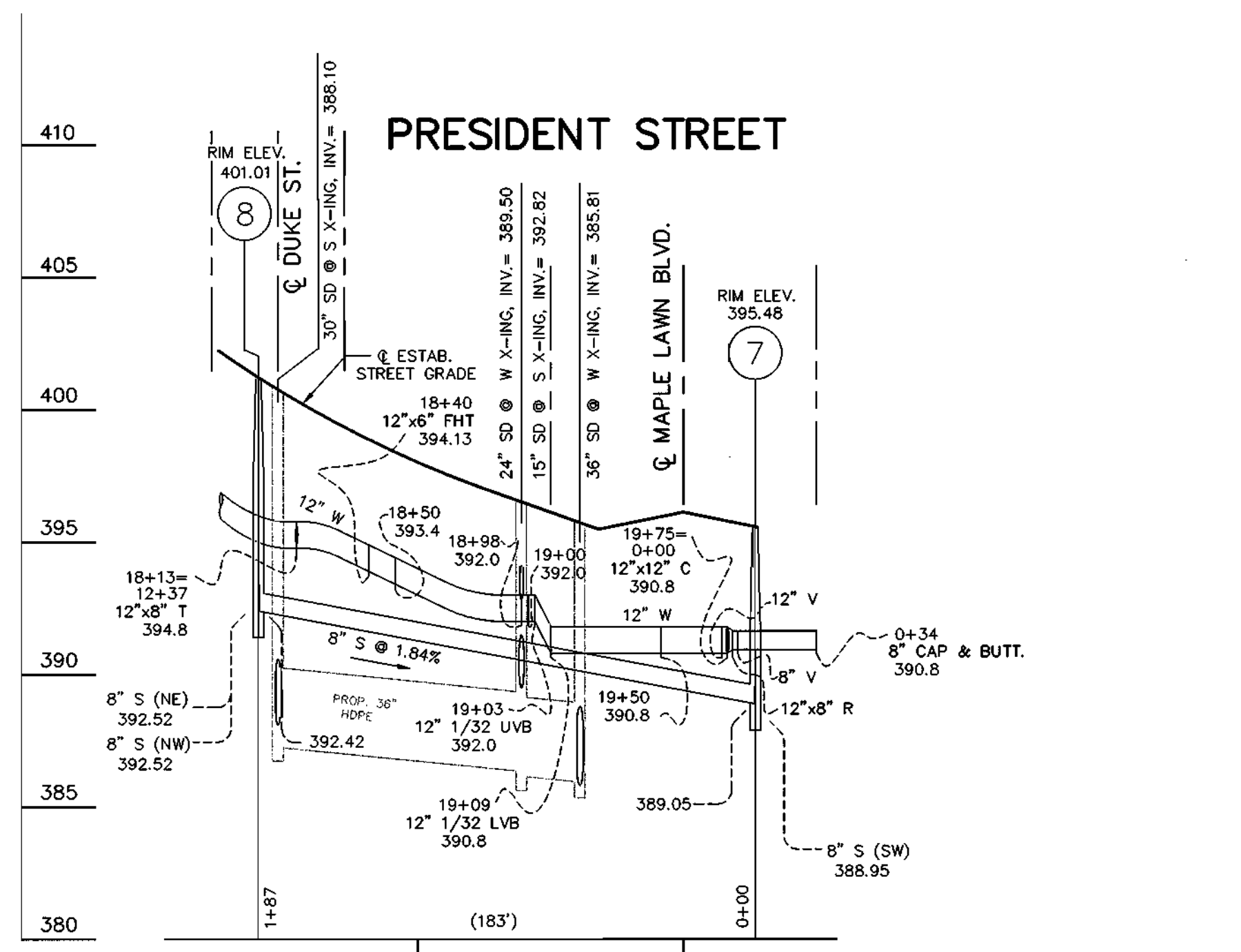
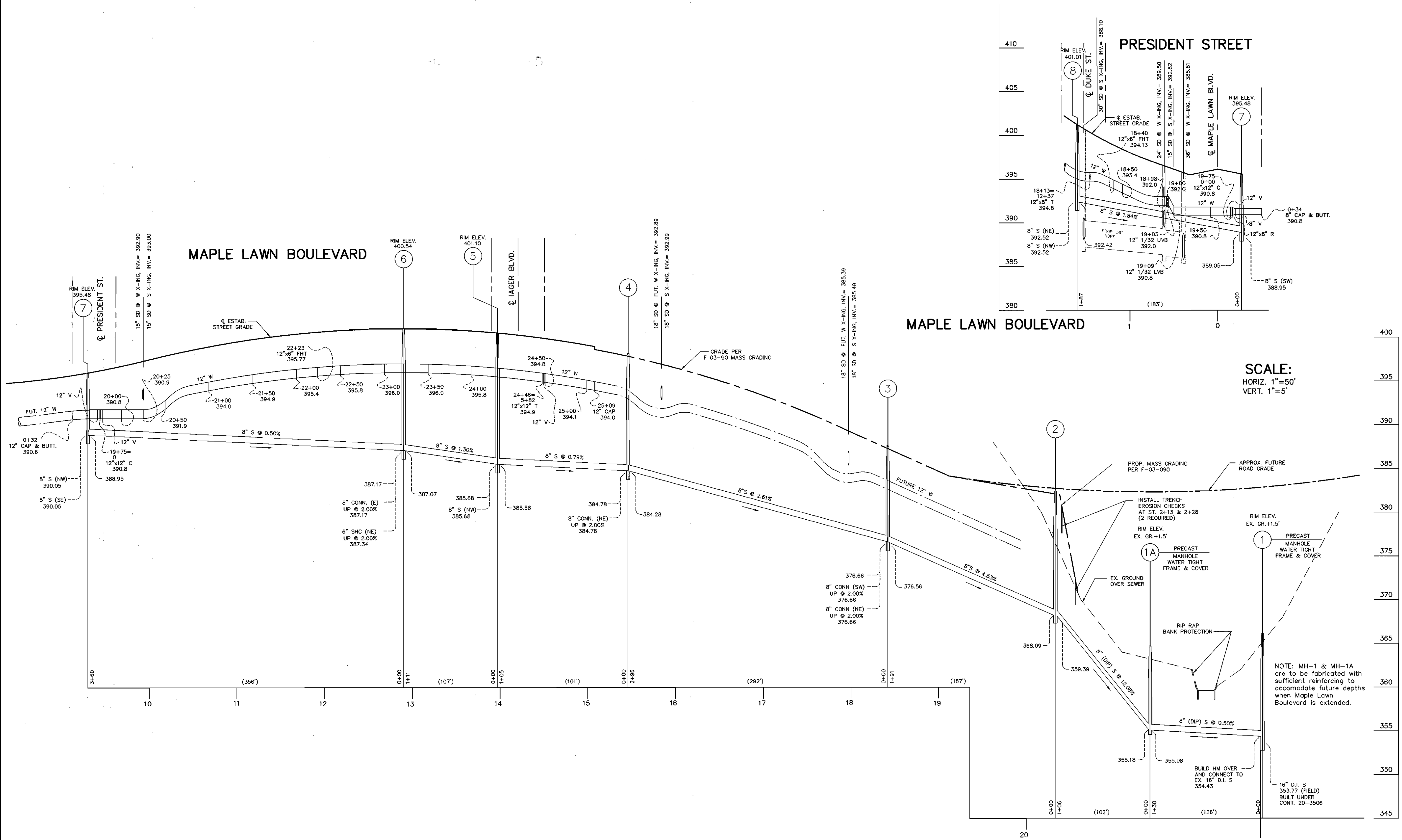
DES: BB			
DRN: VAR			
CHK: CKG			
DATE: 4/03	BY	NO	REVISION
			DATE

WATER and SEWER EXTENSION PLAN
600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

SCALE AS SHOWN
SHEET 5 OF 11

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SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

GLW FILE #02001

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert Berman 5-5-03
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
Michael Dammann 5/14/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

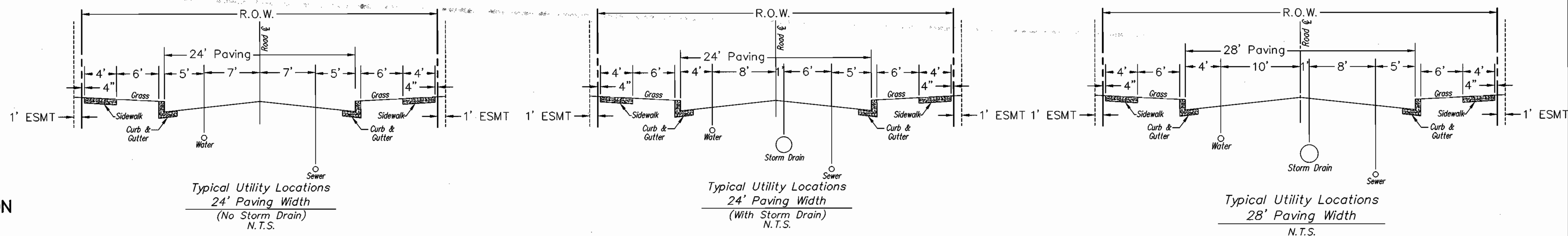


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DRN:	VAR			
CHK:	CKG			
DATE:	4/03			
BY:	NO	REVISION	DATE	

WATER and SEWER EXTENSION PLAN
600' SCALE MAP NO. 46 BLOCK NO. 4

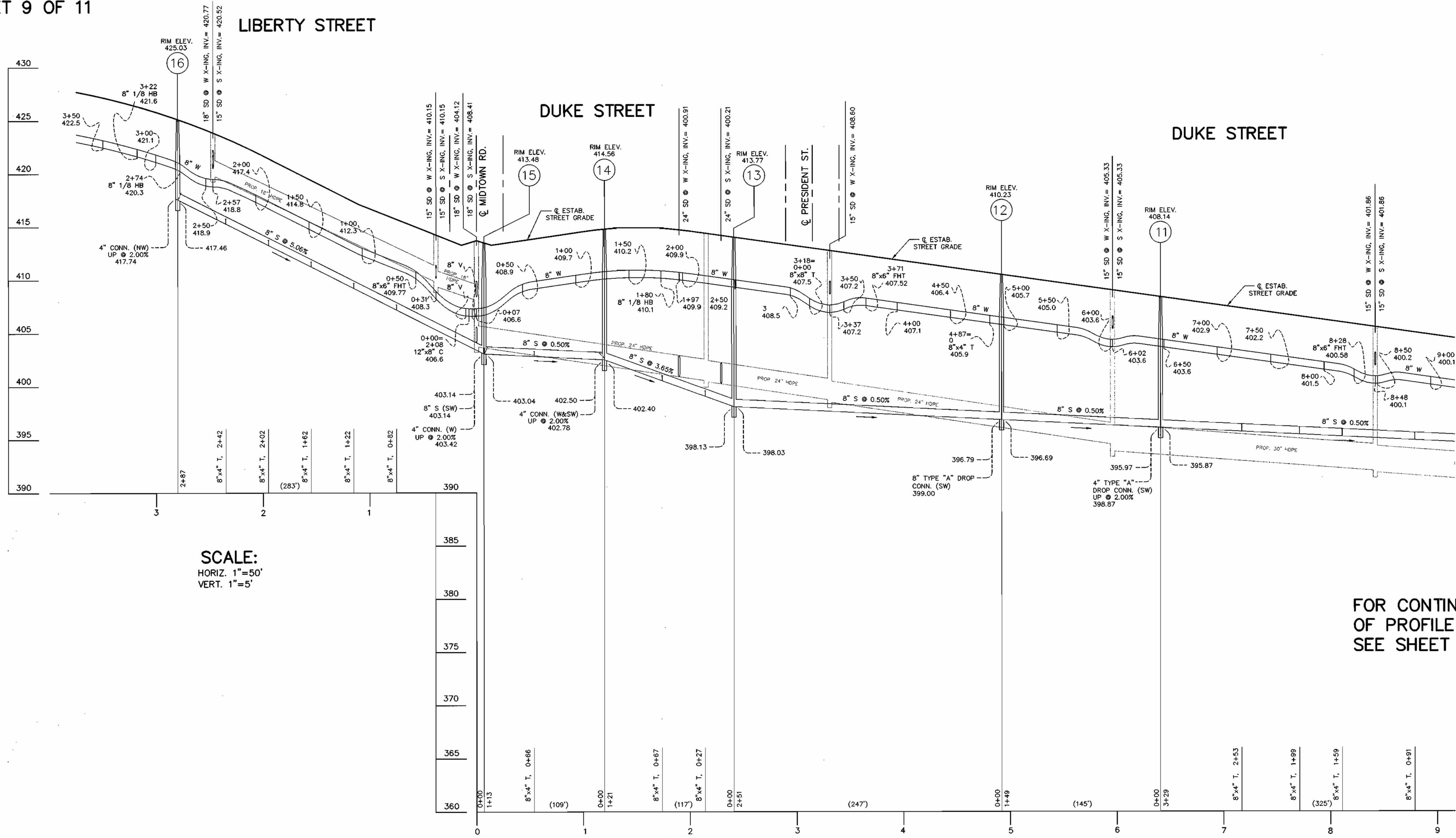
MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

SCALE AS SHOWN
SHEET 6 OF 11



FOR CONTINUATION
OF PROFILE
SEE SHEET 9 OF 11

LIBERTY STREET



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

FOR CONTINUATION
OF PROFILE
SEE SHEET 8 OF 11

L:\CADD\DRAWINGS\02001\PHASE 2 (02001)\FINALS\02001WS.dwg 05/02/2003 10:56:04 AM EDT

GLW FILE #02001

DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert Berman
5-5-03
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
William J. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION

GLWGUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
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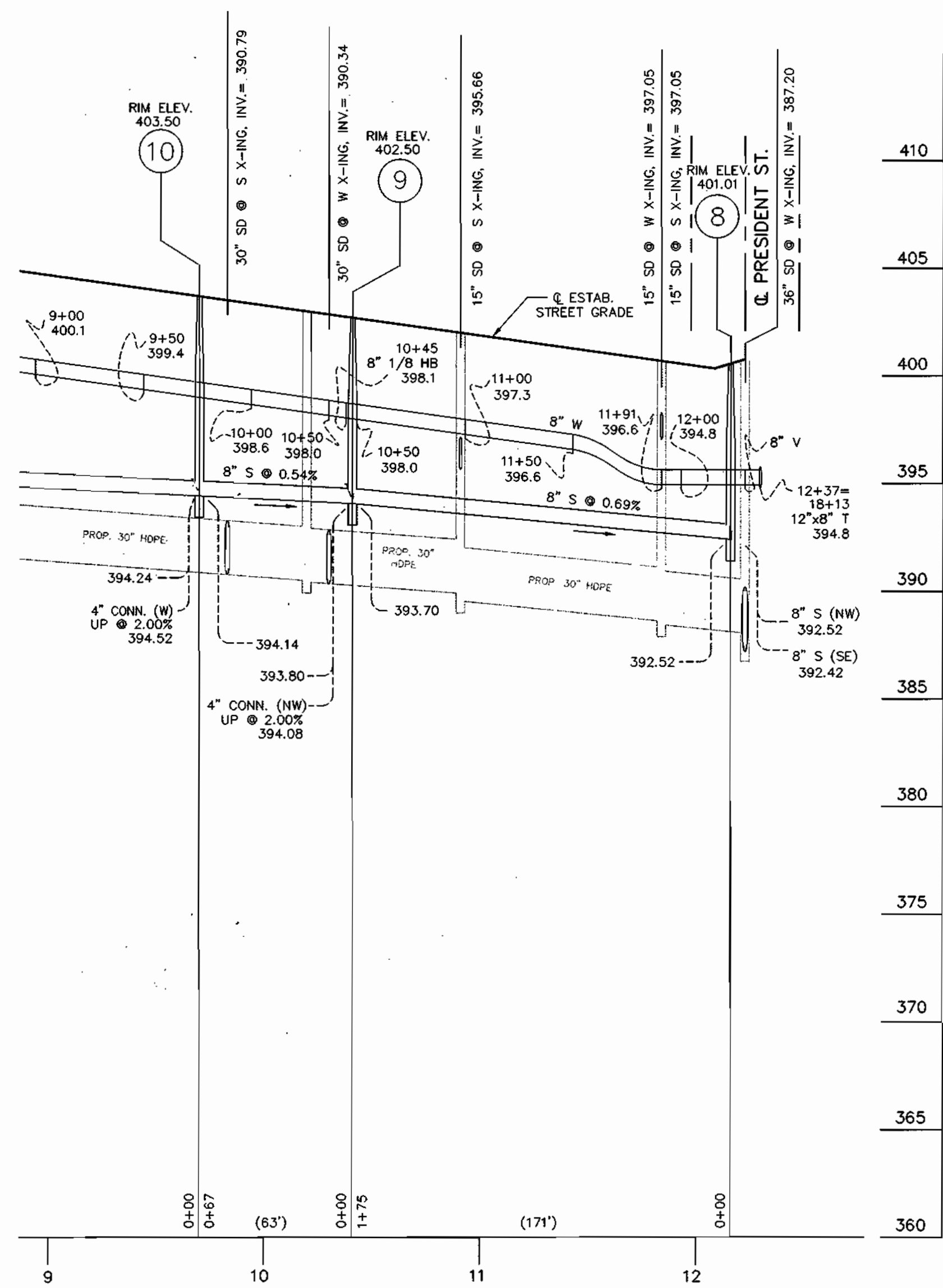
**WATER and SEWER EXTENSION
PLAN**
600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
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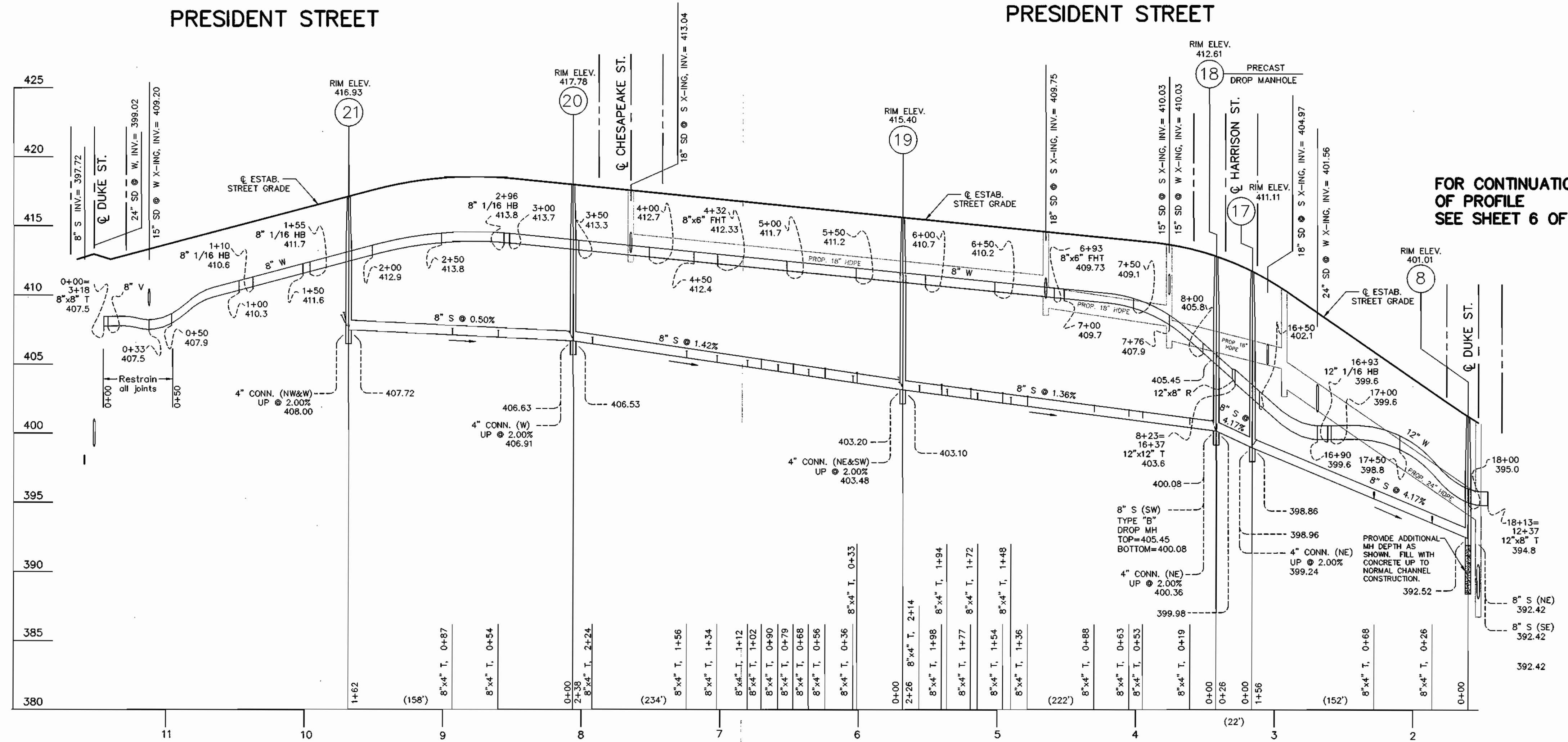
SCALE
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SHEET
7 OF 11

FOR CONTINUATION
OF PROFILE
SEE SHEET 7 OF 11

DUKE STREET



PRESIDENT STREET



PRESIDENT STREET

FOR CONTINUATION
OF PROFILE
SEE SHEET 6 OF 11

SCALE:
HORIZ. 1"=50'
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GLW FILE #02001

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DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Benja 5-5-03
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Robert Benja 5-5-03
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
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WATER and SEWER EXTENSION
PLAN

600' SCALE MAP NO. 46 BLOCK NO. 4

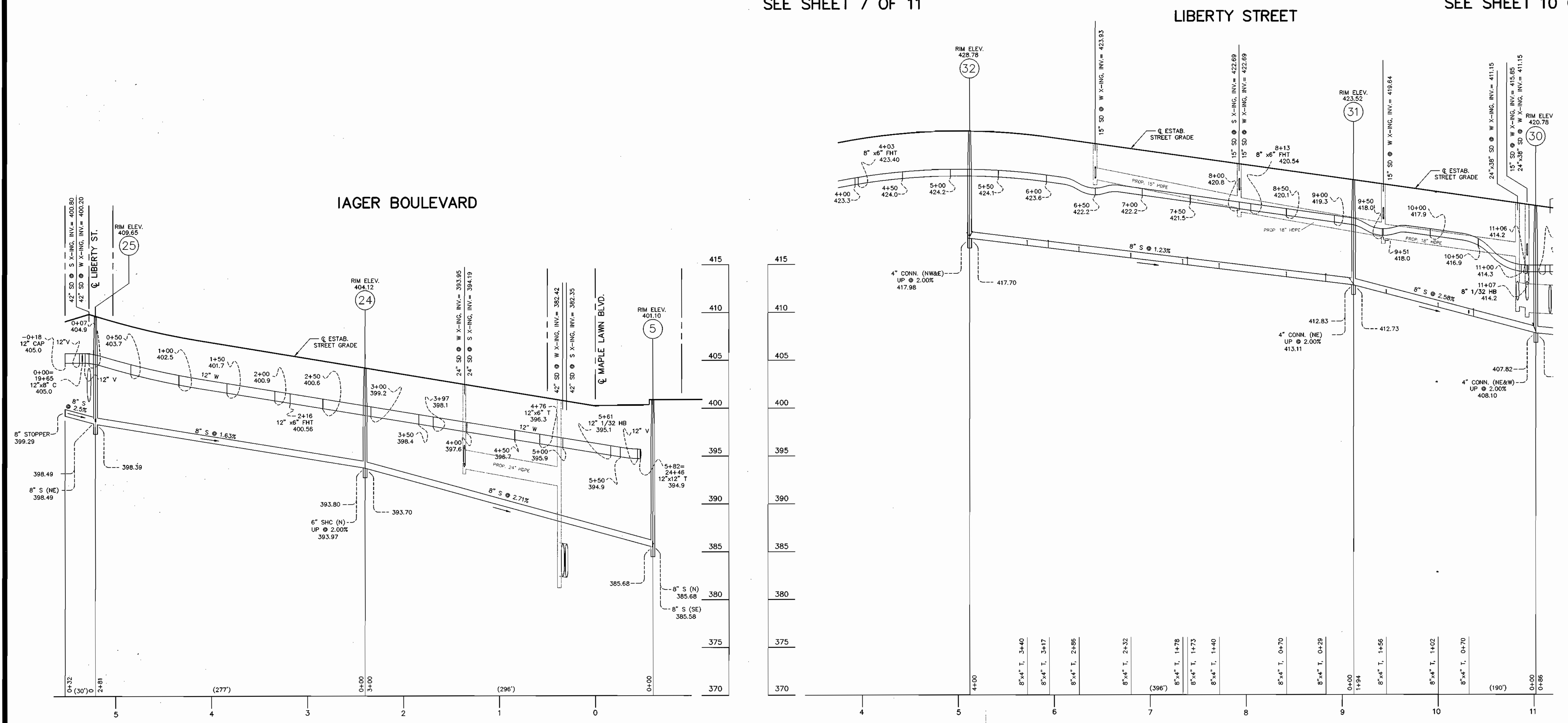
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5TH ELECTION DISTRICT

SCALE
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SHEET
8 OF 11

FOR CONTINUATION
OF PROFILE
SEE SHEET 7 OF 11

FOR CONTINUATION
OF PROFILE
SEE SHEET 10 OF 11



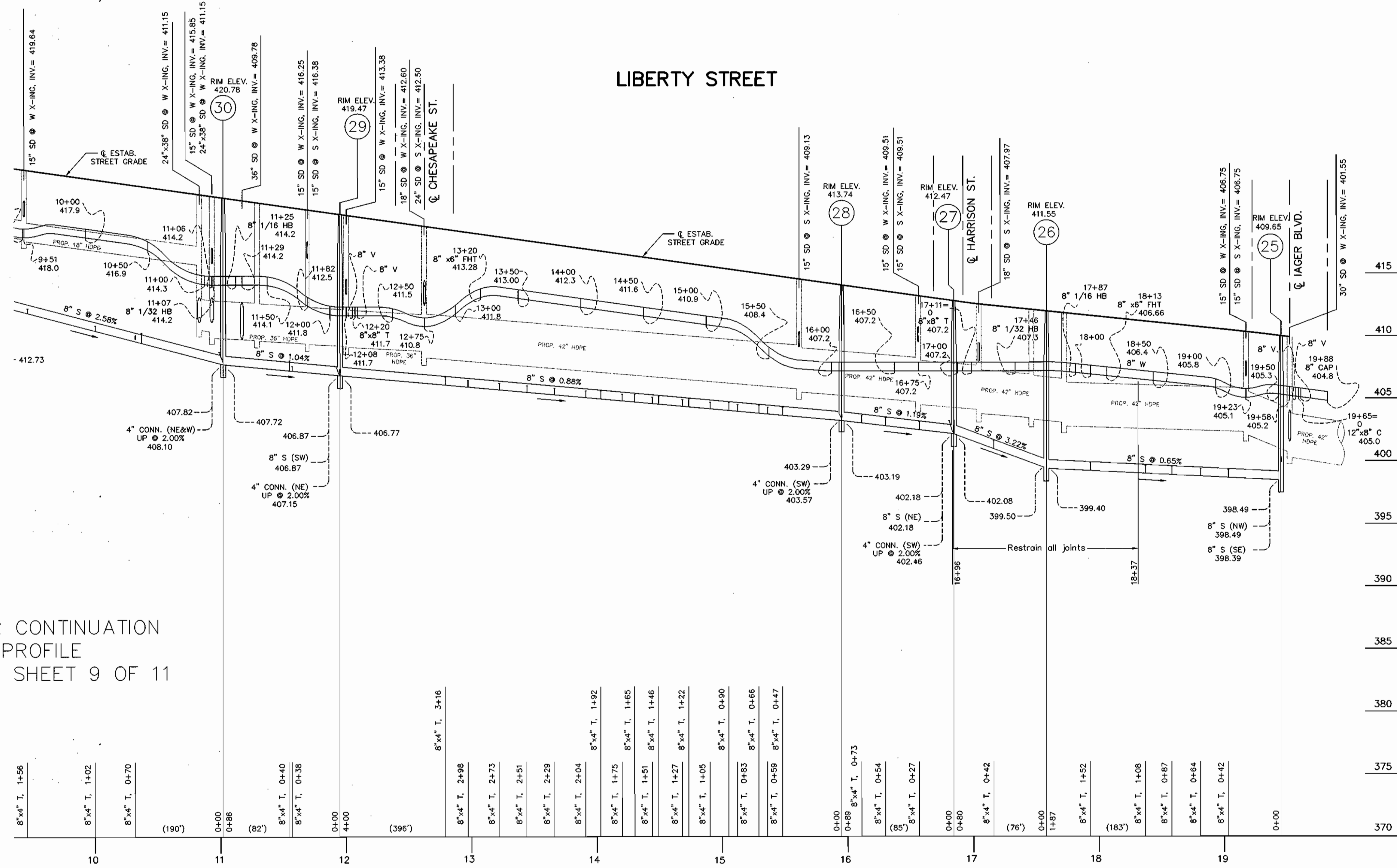
SCALE:
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GLW FILE #02001

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>Robert B. ...</i> 5-5-03 CHIEF, BUREAU OF UTILITIES</p>	<p>DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND</p> <p><i>...</i> 5/14/03 CHIEF, DEVELOPMENT ENGINEERING DIVISION</p>	<p>GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 200 - BURTONTVILLE OFFICE PARK BURTONTVILLE, MARYLAND 20886 TEL: 301-421-4024 BAL: 410-880-1820 DC/WA: 301-989-2524 FAX: 301-421-4186</p>		<table border="1"> <tr><td>DES:</td><td>BB</td></tr> <tr><td>DRN:</td><td>VAR</td></tr> <tr><td>CHK:</td><td>CKG</td></tr> <tr><td>DATE:</td><td>4/03</td></tr> <tr><td>BY:</td><td>NO</td></tr> <tr><td>REVISION:</td><td></td></tr> <tr><td>DATE:</td><td></td></tr> </table>	DES:	BB	DRN:	VAR	CHK:	CKG	DATE:	4/03	BY:	NO	REVISION:		DATE:		<p>WATER and SEWER EXTENSION PLAN</p> <p>600' SCALE MAP NO. 46 BLOCK NO. 4</p>	<p>MAPLE LAWN FARMS MIDTOWN DISTRICT - AREA 1 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127 COMMON OPEN AREAS 128 THRU 132 AND PARCELS 'A', 'B', & 'C' P. 121, P. 450 and P. 205 CONTRACT No. 24-4105-D 5TH ELECTION DISTRICT</p>	<p>SCALE AS SHOWN</p> <p>SHEET 9 OF 11</p>
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FOR CONTINUATION
OF PROFILE
SEE SHEET 9 OF 11

SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

GLW FILE #02001

DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND
R. L. Benjamin
CHIEF, BUREAU OF UTILITIES
DATE: 5-5-03

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
John P. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE:

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



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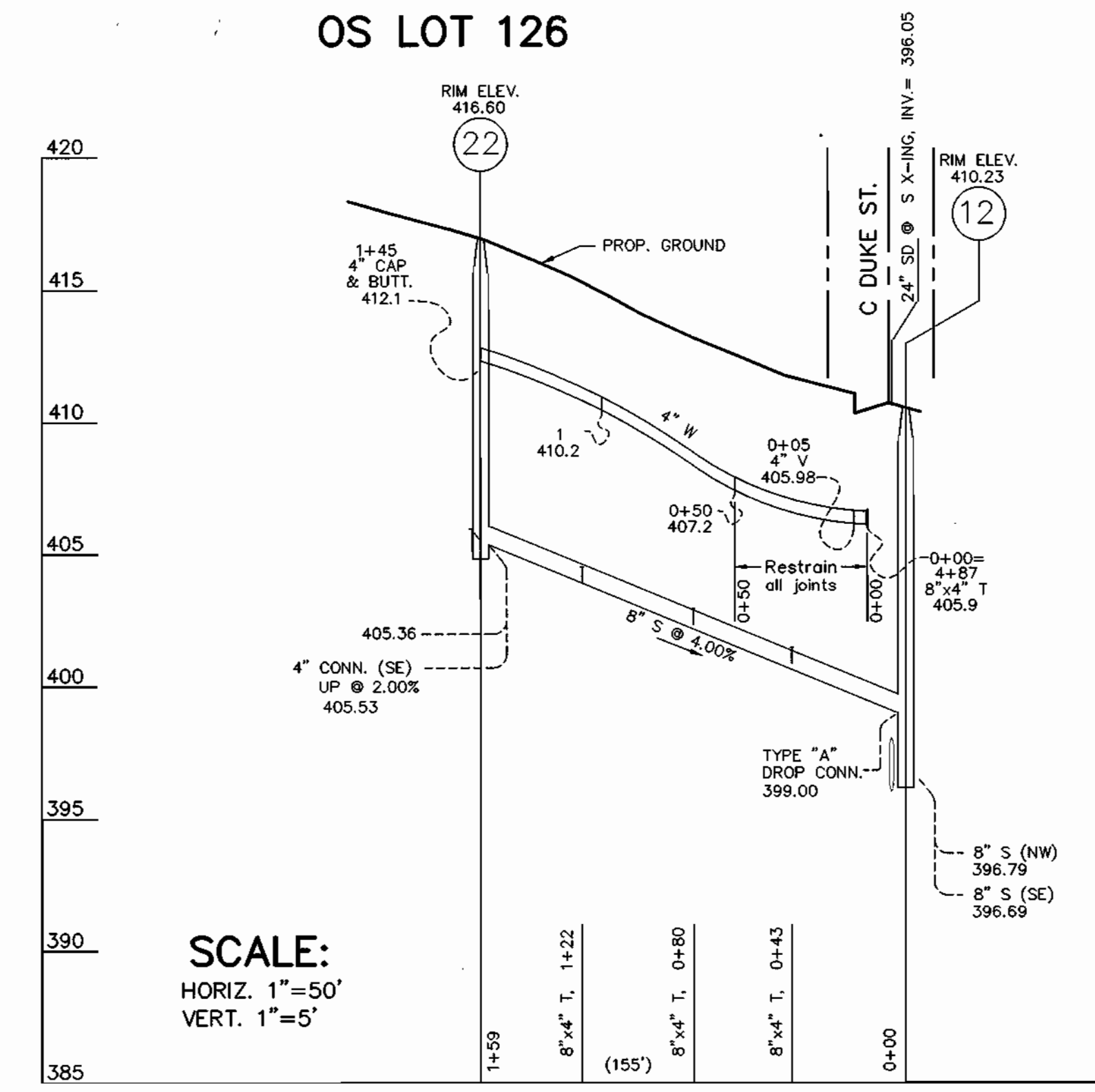
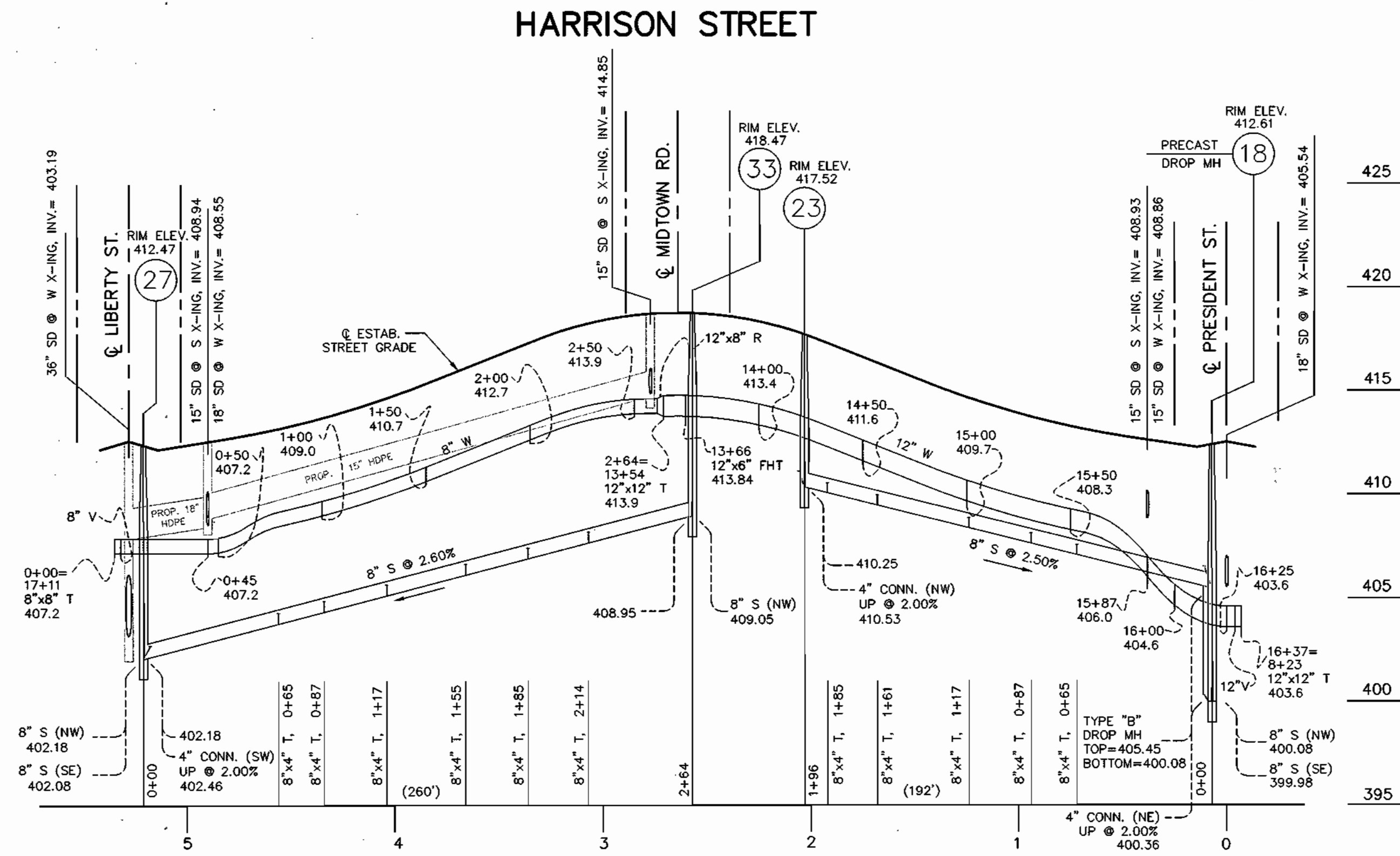
**WATER and SEWER EXTENSION
PLAN**
600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
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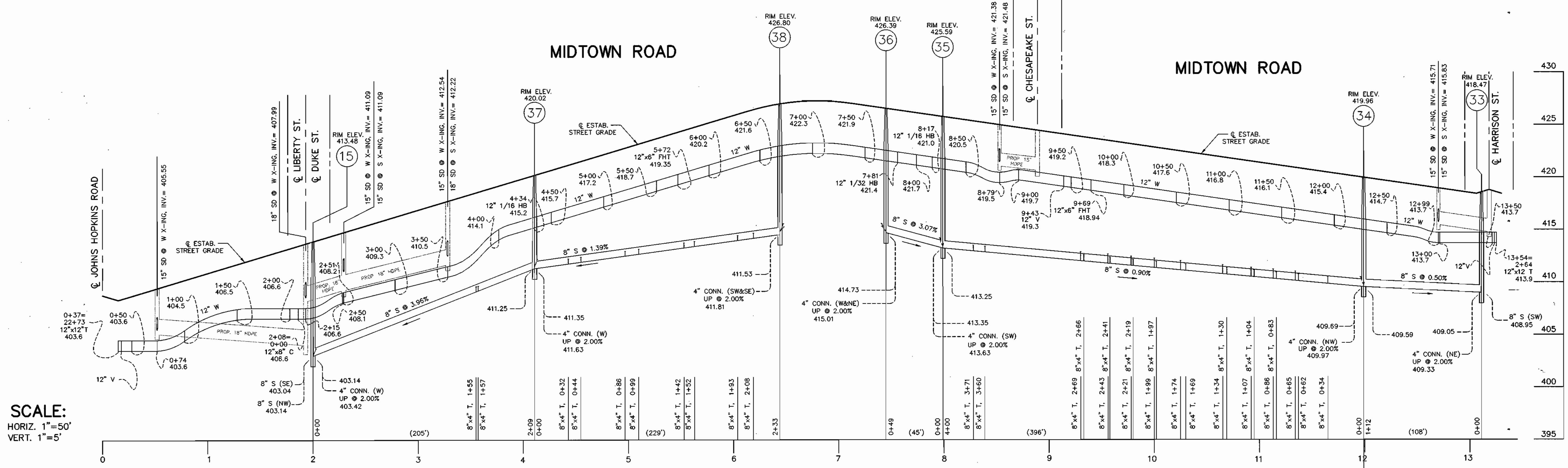
SCALE
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10 OF 11

L:\CADD\DRAWINGS\02001\PHASE 2 (02001)\FINALS\02001WS.dwg 05/02/2003 10:56:04 AM EDT

OS LOT 126



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

GLW FILE #02001

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>Robert Bennis</i> 5-5-03 CHIEF, BUREAU OF UTILITIES DATE</p>	<p>DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND</p> <p><i>John D. ...</i> 5/14/03 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE</p>	<p>GLWGUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTNSVILLE OFFICE PARK BURTNSVILLE, MARYLAND 20866 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186</p>		<p>DES: BB DRN: VAR CHK: CKG DATE: 4/03</p> <table border="1"> <thead> <tr> <th>BY</th> <th>NO</th> <th>REVISION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	BY	NO	REVISION	DATE					<p>WATER and SEWER EXTENSION PLAN</p> <p>600' SCALE MAP NO. 46 BLOCK NO. 4</p>	<p>MAPLE LAWN FARMS MIDTOWN DISTRICT - AREA 1 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127 COMMON OPEN AREAS 128 THRU 132 AND PARCELS 'A', 'B', & 'C' P. 121, P. 450 and P. 205 CONTRACT No. 24-4105-D 5TH ELECTION DISTRICT</p>	<p>SCALE AS SHOWN SHEET 11 OF 11</p>
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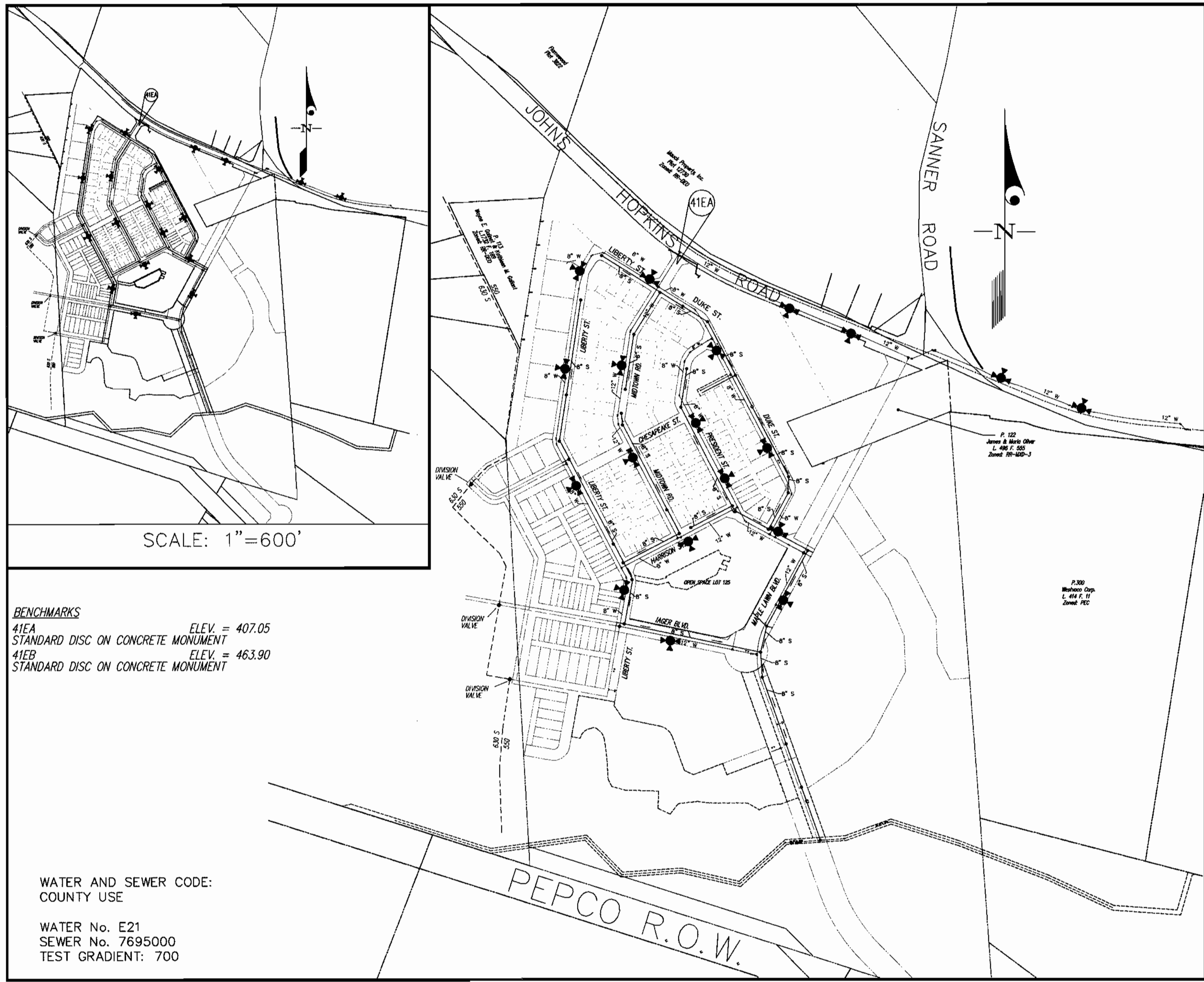
CONTRACT No. 24-4105-D
 MAPLE LAWN FARMS
 LOTS 1 THRU 120
 OPEN SPACE LOTS 121 THRU 127
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

TYPE OF BUILDING	SINGLE FAMILY
NUMBER OF UNITS	120
NUMBER OF S.H.C.'s	144
NUMBER OF W.H.C.'s	144
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	LITTLE PATUXENT WWTP

QUANTITIES		AS-BUILT		
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
4" WATER	145 LF			
6" WATER (FH's)	273 LF			
8" WATER	4397 LF			
12" WATER	5364 LF			
1" WHC	1004 LF			
1 1/2" WHC	1537 LF			
12" 1/16 U.V.B.	1 EA			
12" 1/16 L.V.B.	1 EA			
12"x12" CROSS	1 EA			
12"x8" CROSS	2 EA			
12"x6" FHT	10 EA			
12"x6" T	1 EA			
12"x8" T	1 EA			
12"x12" T	6 EA			
12"x8" REDUCER	3 EA			
12" VALVE	16 EA			
12" CAP	3 EA			
12" PLUG	3 EA			
12" 1/32 UVB	2 EA			
12" 1/32 LVB	2 EA			
12" 1/8 HB	4 EA			
12" 1/16 HB	3 EA			
12" 1/32 HB	1 EA			
8" 1/8HB	4 EA			
8" 1/16HB	5 EA			
8" 1/32HB	2 EA			
8"x8" T	3 EA			
8"x6" T (FHT)	9 EA			
8"x4" T	1 EA			
8" VALVE	11 EA			
8" CAP	3 EA			
6" VALVE (FHV)	19 EA			
4" VALVE	1 EA			
4" CAP	1 EA			
8" 1/2 U.V.B.	1 EA			
8" 1/2 L.V.B.	1 EA			
FIRE HYDRANT - 4.5'	4 EA			
FIRE HYDRANT - 5.0'	12 EA			
FIRE HYDRANT - 5.5'	3 EA			
8" PVC SEWER	7071 LF			
8" D.I. SEWER	228 LF			
6" PVC (SHC)	108 LF			
4" PVC (SHC)	3860 LF			
MH's	39 EA			
DROP	2 EA			
8" STOPPER	7 EA			

NAME OF UTILITY CONTRACTOR: _____

SURVEY AND DRAFTING DIV. CHECKBOX: _____ AS-BUILT DATE: _____



SCALE: 1"=600'

BENCHMARKS
 41EA STANDARD DISC ON CONCRETE MONUMENT ELEV. = 407.05
 41EB STANDARD DISC ON CONCRETE MONUMENT ELEV. = 463.90

WATER AND SEWER CODE:
 COUNTY USE

WATER No. E21
 SEWER No. 7695000
 TEST GRADIENT: 700

VICINITY MAP
 SCALE: 1"=300'

GENERAL NOTES

- PART I
- Approximate locations 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, NAD 83/91.
 - All vertical controls are based on NAVD 88.
 - All pipe elevations shown are invert elevations unless otherwise noted on the plans.
 - Clear all utilities by a minimum of 12". Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. 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 the bracing of additional poles or damages shall be deducted from monies 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 Details 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 locations 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.
 - The contractor shall notify the following utility companies or agencies at least (5) working days before starting work shown on these plans:

AT&T	1-800-252-1133
BGE (Contractor Services)	410-850-4620
BGE (Under Ground Damage Control)	410-787-9068
Bureau of Utilities	410-313-4900
Colonial Pipeline Co.	410-795-1390
Miss Utility	1-800-257-7777
State Highway Administration	410-531-5533
Verizon	1-800-743-0033/410-224-9210
 - 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.
 - The 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.
 - The contractor shall notify the Bureau of Highways, Howard County, at 410-313-2450 at least five (5) working days before any open cutting or boring/jacking of any County road or boring/jacking operation on County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirement per Section 18.114(a) of the Howard County Code.
 - All buildable lots shown hereon shall have one (1) foot wide public easement adjacent to the Public Road Right of Way, for the purpose of sidewalk maintenance, water house connection and sewer house connection.
- PART II - WATER
- All water mains to be D.I.P. Class 52 unless otherwise noted.
 - Tops of all water mains shall have a minimum of 3'-6" 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 installed 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.
- PART III - SEWER
- 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.
 - Force mains shall be D.I.P. only.
 - Manholes shown with 12" and 16" walls are for brick manholes only.
 - Manholes designated W.T. in plan and profile shall have watertight frame and cover, Standard Detail G5.52. Where watertight manhole frames and covers are 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 the cellar cannot be served.

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications, with Road Drawings Plan F-03-090 - Drawings 13 thru 21 for Sediment & Erosion Control, and with these plans.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

John R. Robertson 5/7/03
 SIGNATURE DATE

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

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

APPROVED: *John R. Robertson* 5/7/03
 HOWARD S.C.D. DATE



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

R. L. ... 5-5-03
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

... 5/1/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BAL: 410-820-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES: BB	JAW	Δ	revise quantities to reflect plan & profile changes.	4/12/03
DRN: VAR				
CHK: CKG				
DATE: 4/03	BY	NO	REVISION	DATE

TITLE SHEET
 SCALE: AS SHOWN

600' SCALE MAP NO. 46 BLOCK NO. 4

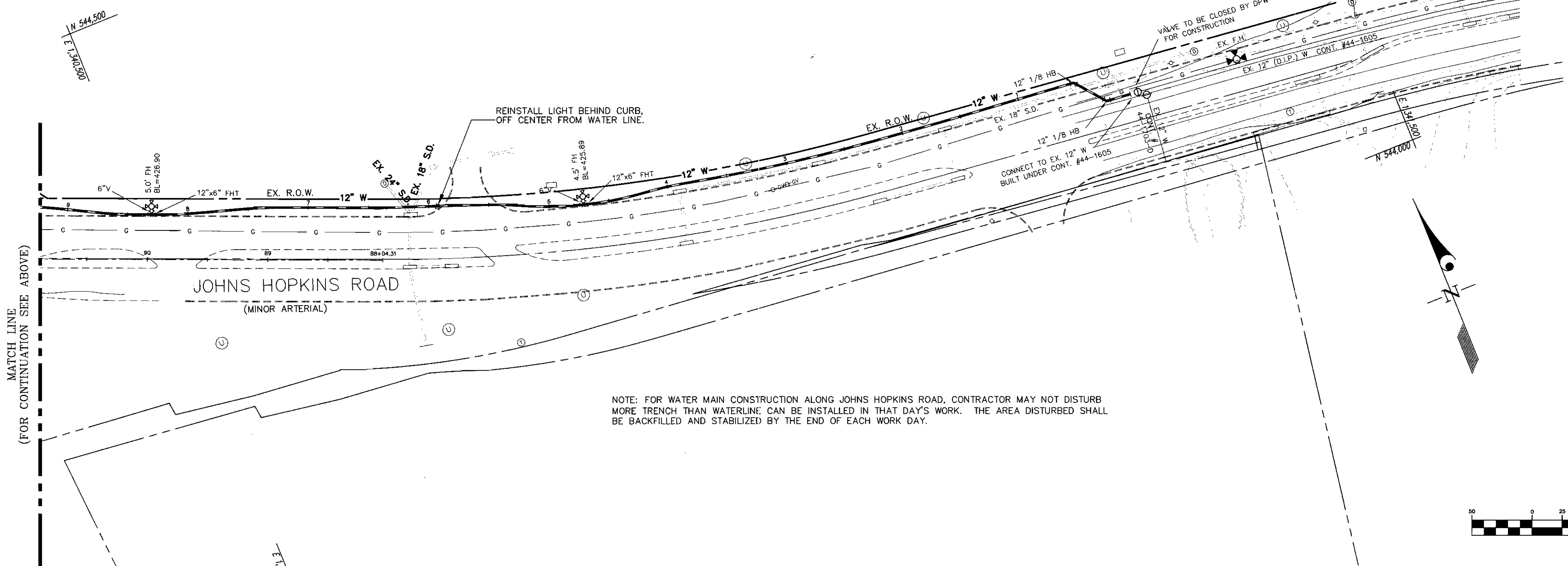
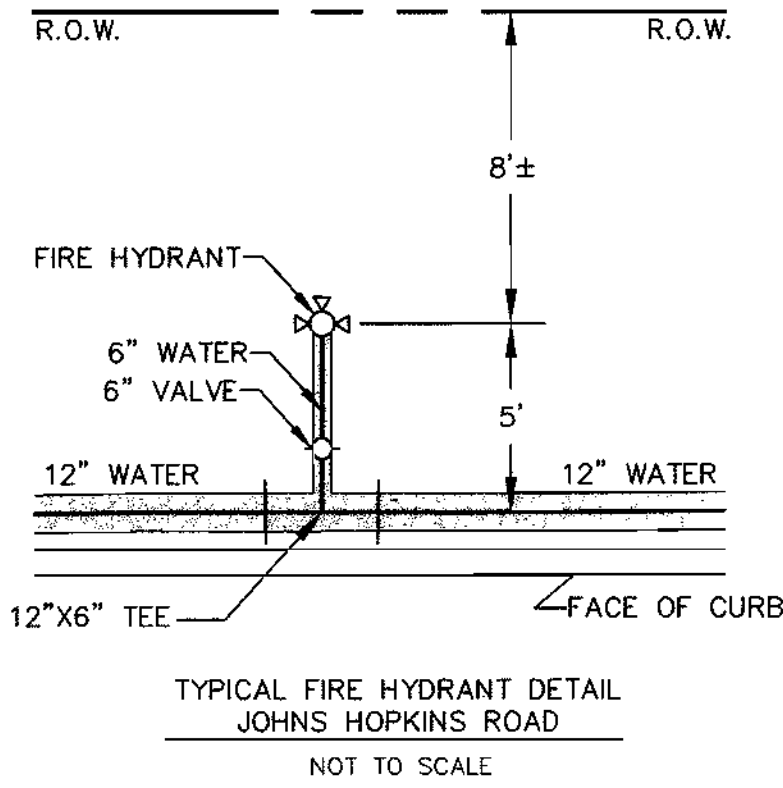
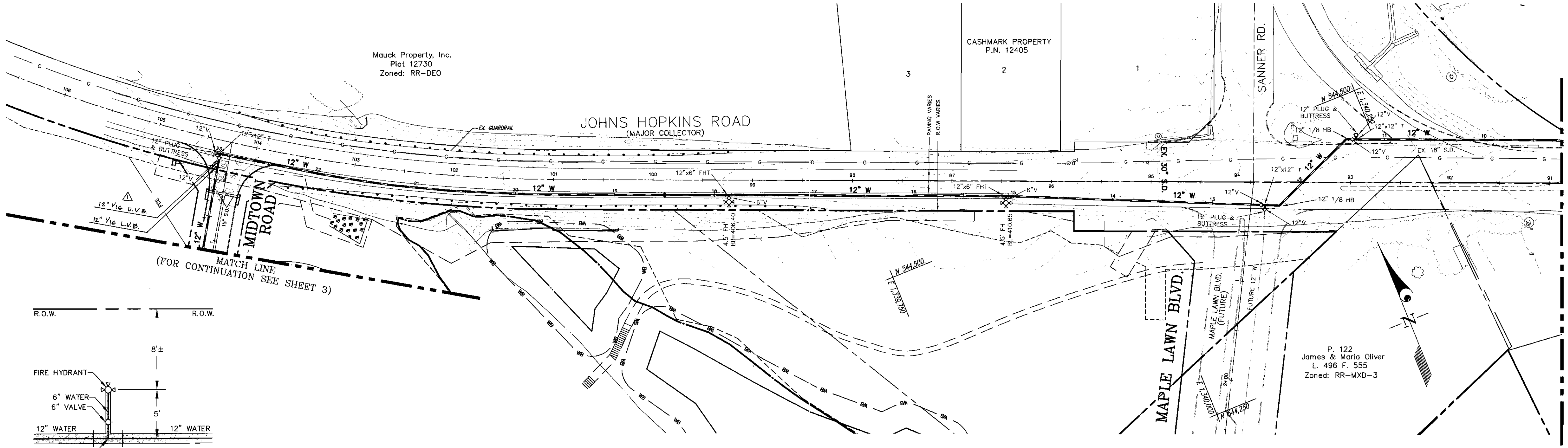
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 5TH ELECTION DISTRICT

SCALE AS SHOWN
 SHEET 1 OF 11

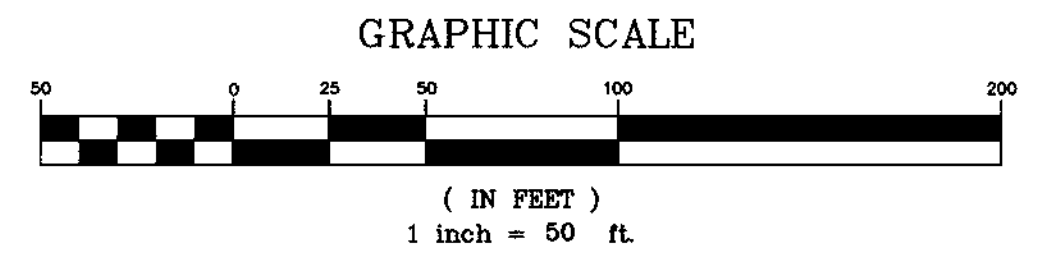
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NOTE: FOR WATER MAIN CONSTRUCTION ALONG JOHNS HOPKINS ROAD, CONTRACTOR MAY NOT DISTURB MORE TRENCH THAN WATERLINE. CAN BE INSTALLED IN THAT DAY'S WORK. THE AREA DISTURBED SHALL BE BACKFILLED AND STABILIZED BY THE END OF EACH WORK DAY.



GLW FILE #02001

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Ruth Dennis 5-5-03
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
Chad Dammer 5/1/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
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BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-959-2524 FAX: 301-421-4186



DES: BB	JAU	added upper & lower vert. bends to avoid conflict with storm drain.	u/2/03
DRN: VAR			
CHK: CKG			
DATE: 4/03	BY: NO	REVISION	DATE

WATER and SEWER EXTENSION PLAN
600' SCALE MAP NO. 46 BLOCK NO. 4

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MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
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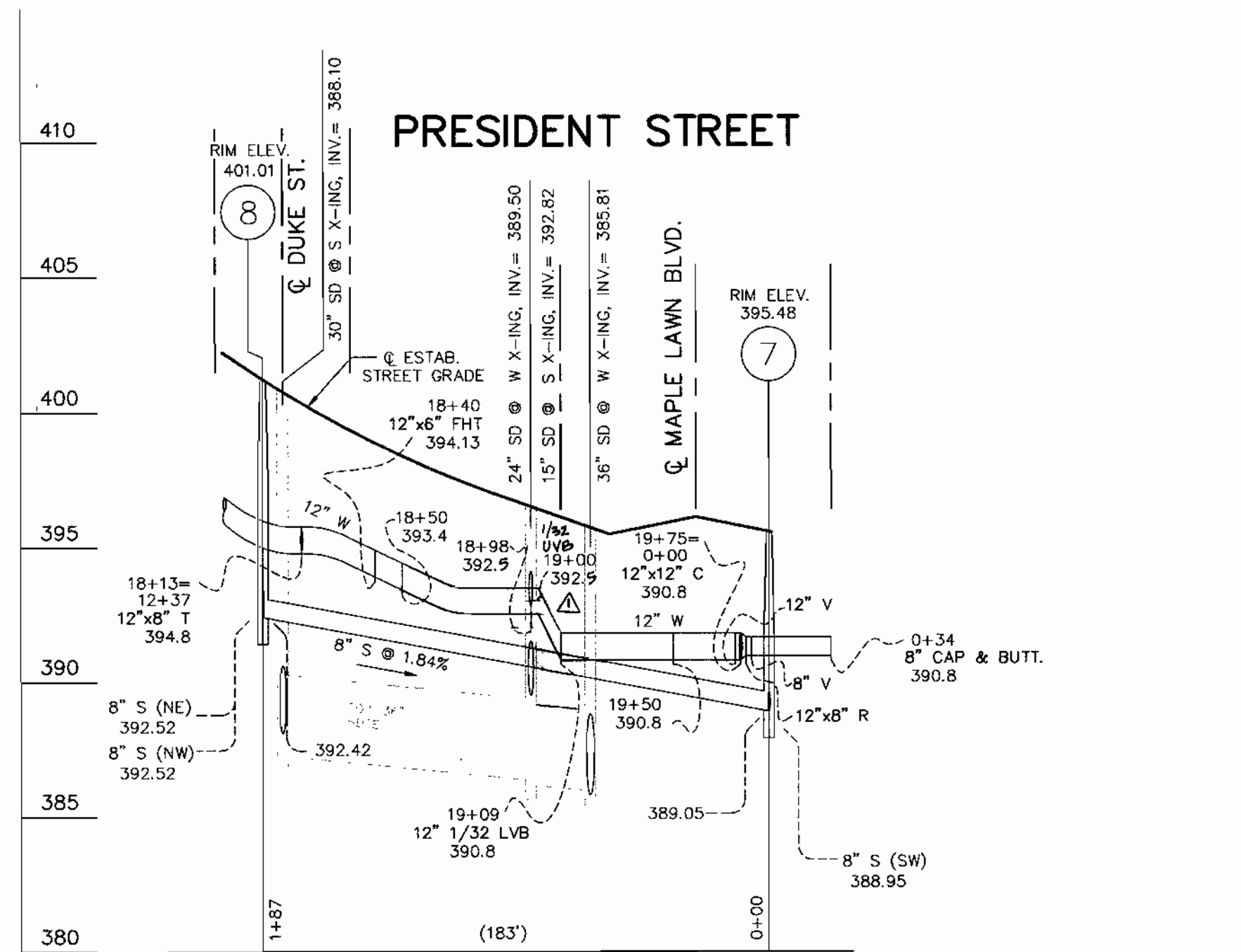
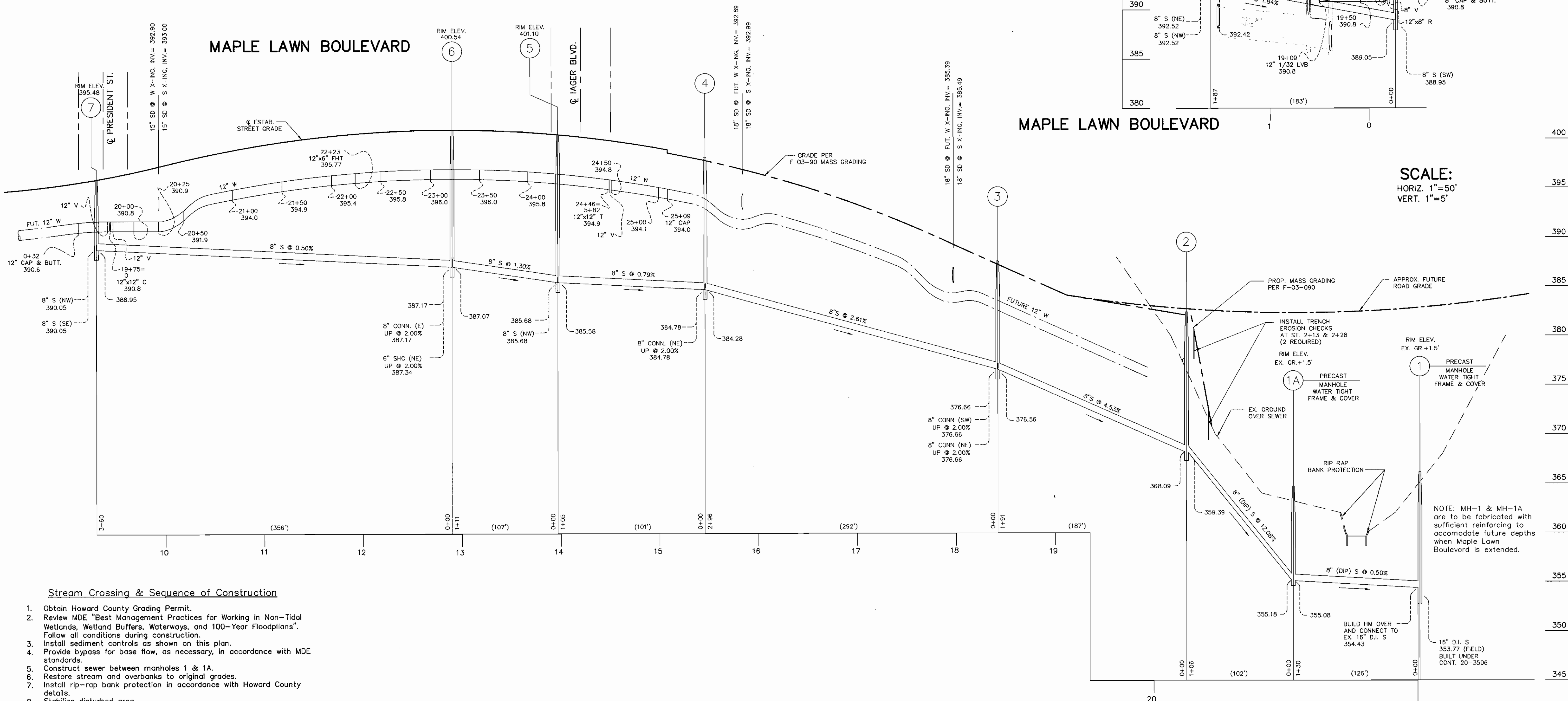
SCALE AS SHOWN
SHEET 2 OF 11

BEST MANAGEMENT PRACTICES FOR WORKING IN
NONTIDAL WETLANDS, WETLAND BUFFERS,
WATERWAYS, AND 100-YEAR FLOODPLAINS

- No excess fill, construction material, or debris shall be stockpiled or stored in nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- Place materials in a location and manner that does not adversely impact surface or subsurface water flow into or out of nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- Do not use the excavated material as backfill if it contains waste metal products, unsightly debris, toxic material, or any other deleterious substance. If additional backfill is required, use clean material free of waste metal products, unsightly debris, toxic material, or any other deleterious substance.
- Place heavy equipment on mats or suitably operate the equipment to prevent damage to nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- Repair and maintain any serviceable structure or fill so there is no permanent loss of nontidal wetlands, nontidal wetland buffers, or waterways, or permanent modification of the 100-year floodplain in excess of that lost under the originally authorized structure or fill.
- Rectify any nontidal wetlands, wetland buffers, waterways, or 100-year floodplain temporarily impacted by any construction.
- All stabilization in the nontidal wetland and nontidal wetland buffer shall consist of the following species: Annual Ryegrass (*Lolium multiflorum*), Millet (*Setaria italica*), Barley (*Hordeum sp.*), Oats (*Uniola sp.*), and/or Rye (*Secale cereale*). These species will allow for the stabilization of the site while also allowing for the voluntary revegetation of natural wetland species. Other non-persistent vegetation may be acceptable, but must be approved by the Nontidal Wetlands and Waterways Division. Kentucky 31 fescue shall not be utilized in wetland or buffer areas. The area should be seeded and mulched to reduce erosion after construction activities have been completed.
- After installation has been completed, make post-construction grades and elevations the same as the original grades and elevations in temporarily impacted areas.
- To protect aquatic species, in-stream work is prohibited as determined by the classification of the stream:

Use 1 waters: In-stream work shall not be conducted during the period March 1 through June 15, inclusive, during any year.

- Stormwater runoff from impervious surfaces shall be controlled to prevent the washing of debris into the waterway.
- Culverts shall be constructed and any riprap placed so as not to obstruct the movement of aquatic species, unless the purpose of the activity is to impound water.



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

Stream Crossing & Sequence of Construction

- Obtain Howard County Grading Permit.
- Review MDE "Best Management Practices for Working in Non-Tidal Wetlands, Wetland Buffers, Waterways, and 100-Year Floodplains". Follow all conditions during construction.
- Install sediment controls as shown on this plan.
- Provide bypass for base flow, as necessary, in accordance with MDE standards.
- Construct sewer between manholes 1 & 1A.
- Restore stream and overbanks to original grades.
- Install rip-rap bank protection in accordance with Howard County details.
- Stabilize disturbed area.
- Continue with additional sewer construction above manhole 1A.

GLW FILE #02001

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert Bump</i> 5-5-03 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>Al Daneman</i> 5/14/03 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	GLWGUTSCHICK LITTLE & WEBER, PA. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186		DES: BB	JAL	4/12/03
				DRN: VAR		
CHK: CKG						
DATE: 4/03	BY: NO	REVISION	DATE	600' SCALE MAP NO. 46	BLOCK NO. 4	

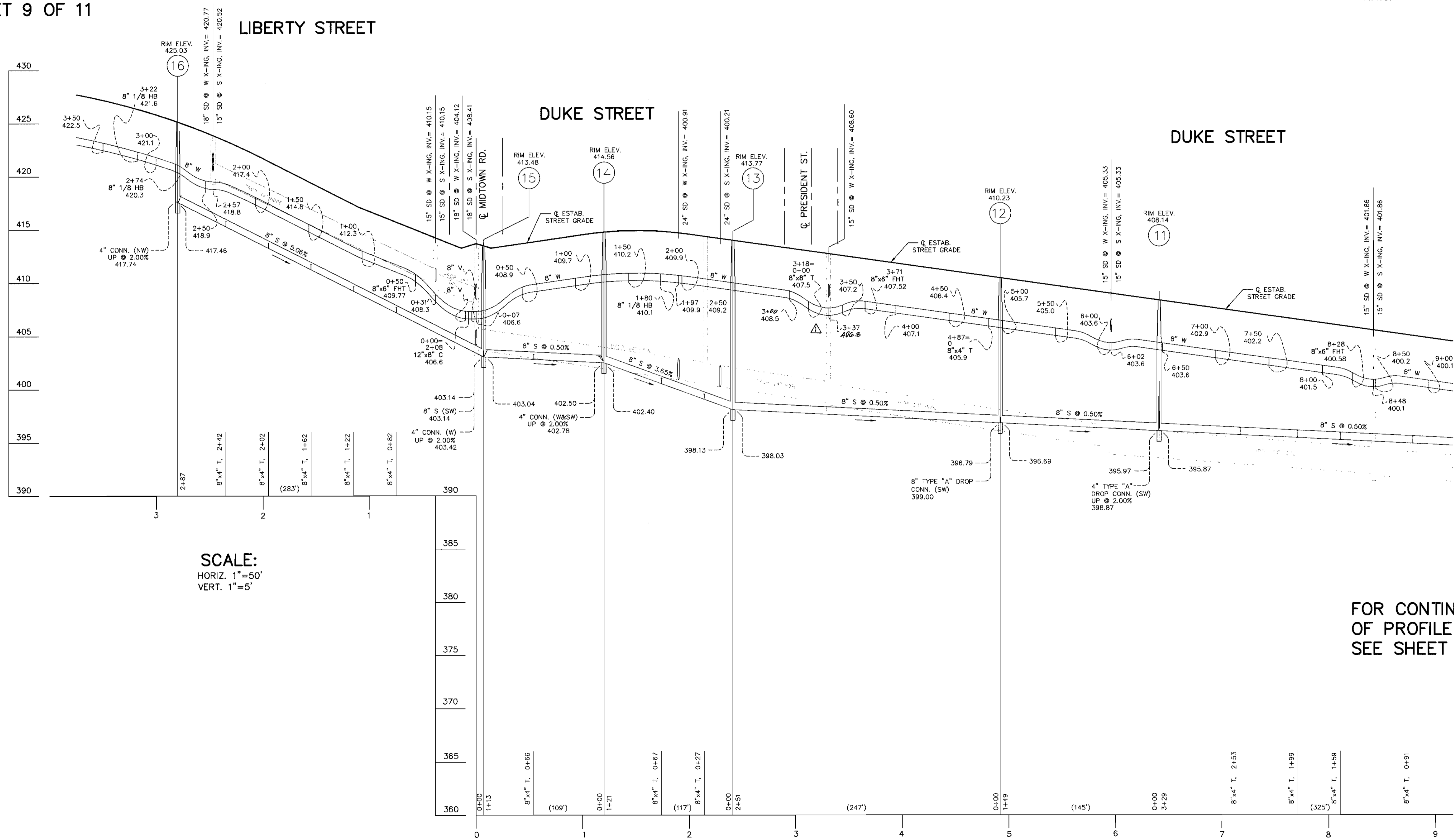
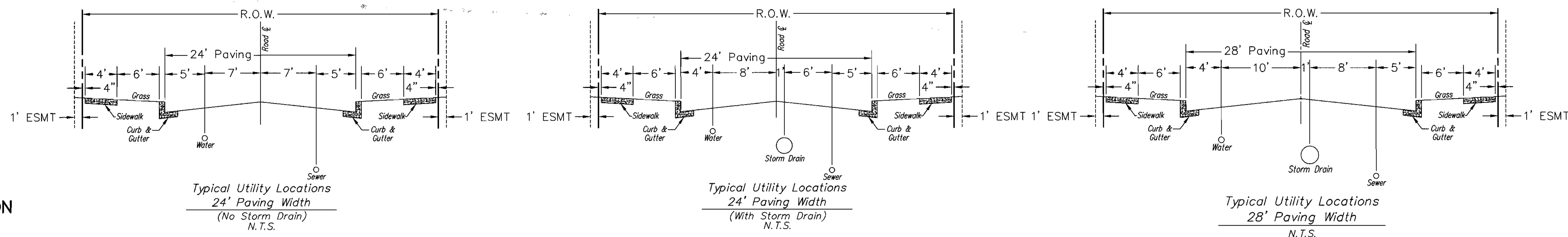
WATER AND SEWER EXTENSION
PLAN

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

SCALE
AS
SHOWN

SHEET
6 OF 11

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GLW FILE #02001

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Benner
5-5-03
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Robert Benner
DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20886
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES: BB	JAU	△	revise water main invert to avoid conflict with storm drain.	11/12/03
DRN: VAR				
CHK: CKG				
DATE: 4/03	BY: NO	REVISION	DATE	

WATER and SEWER EXTENSION PLAN

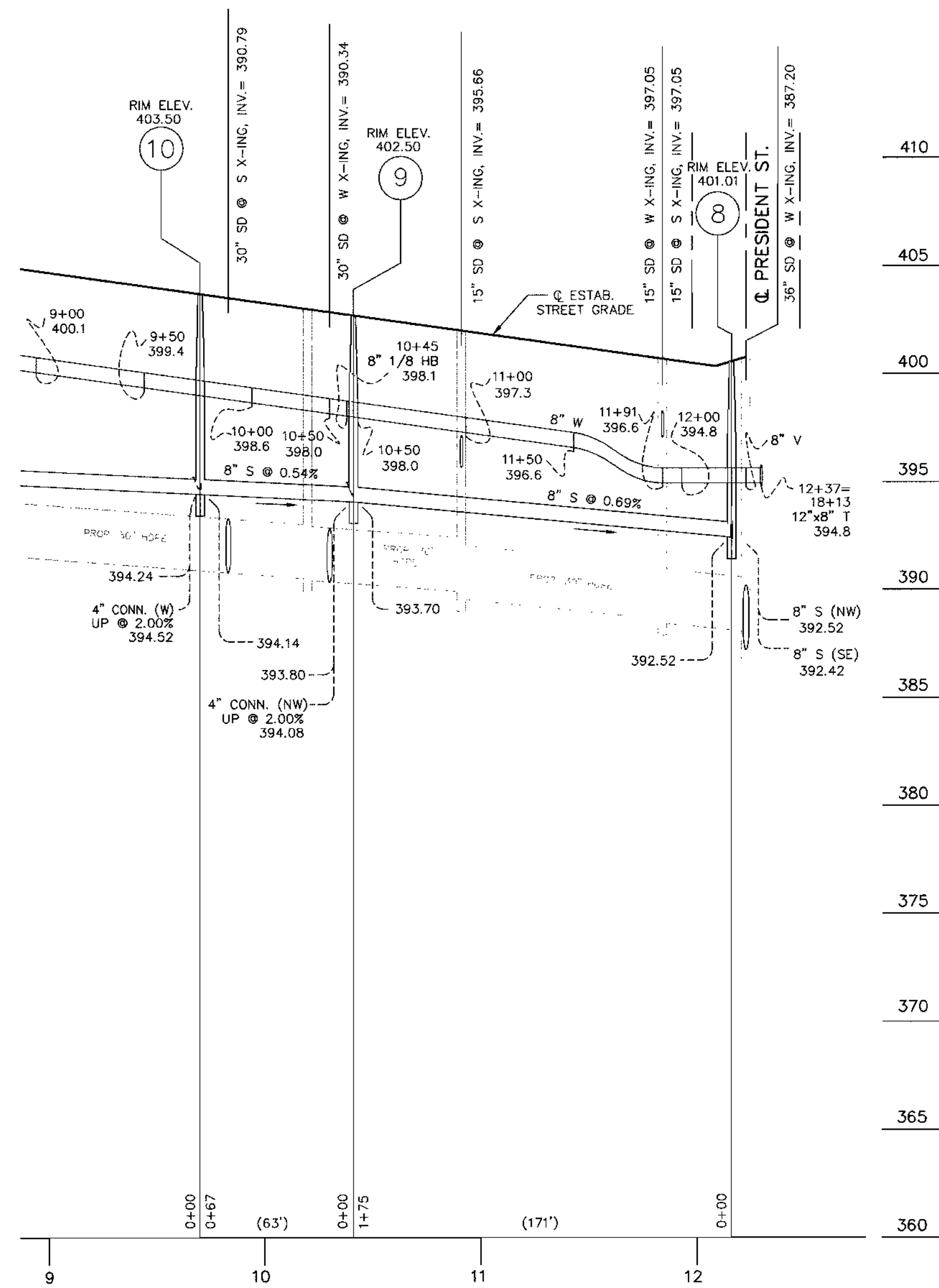
600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
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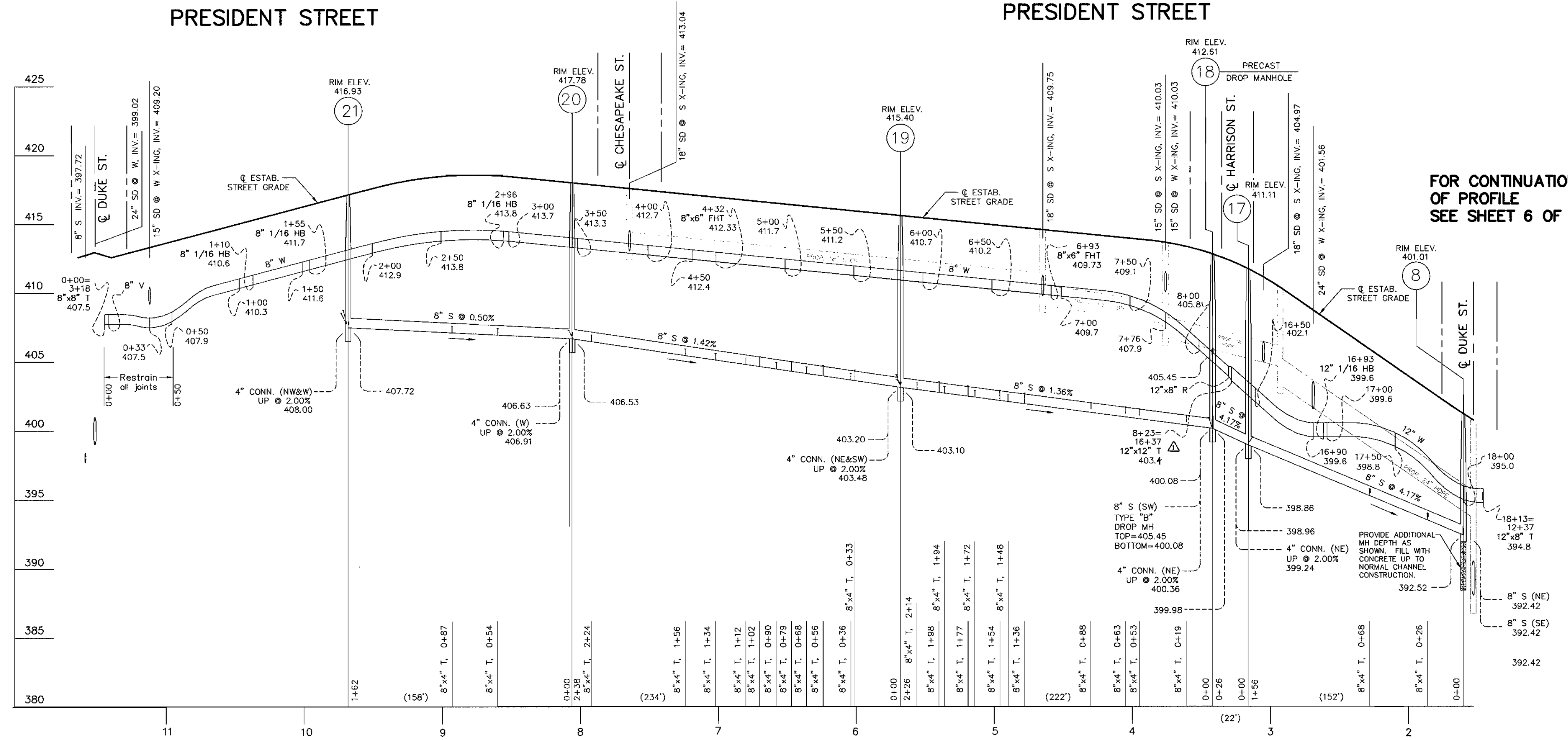
SCALE AS SHOWN
SHEET 7 OF 11

FOR CONTINUATION
OF PROFILE
SEE SHEET 7 OF 11

DUKE STREET



PRESIDENT STREET



PRESIDENT STREET

FOR CONTINUATION
OF PROFILE
SEE SHEET 6 OF 11

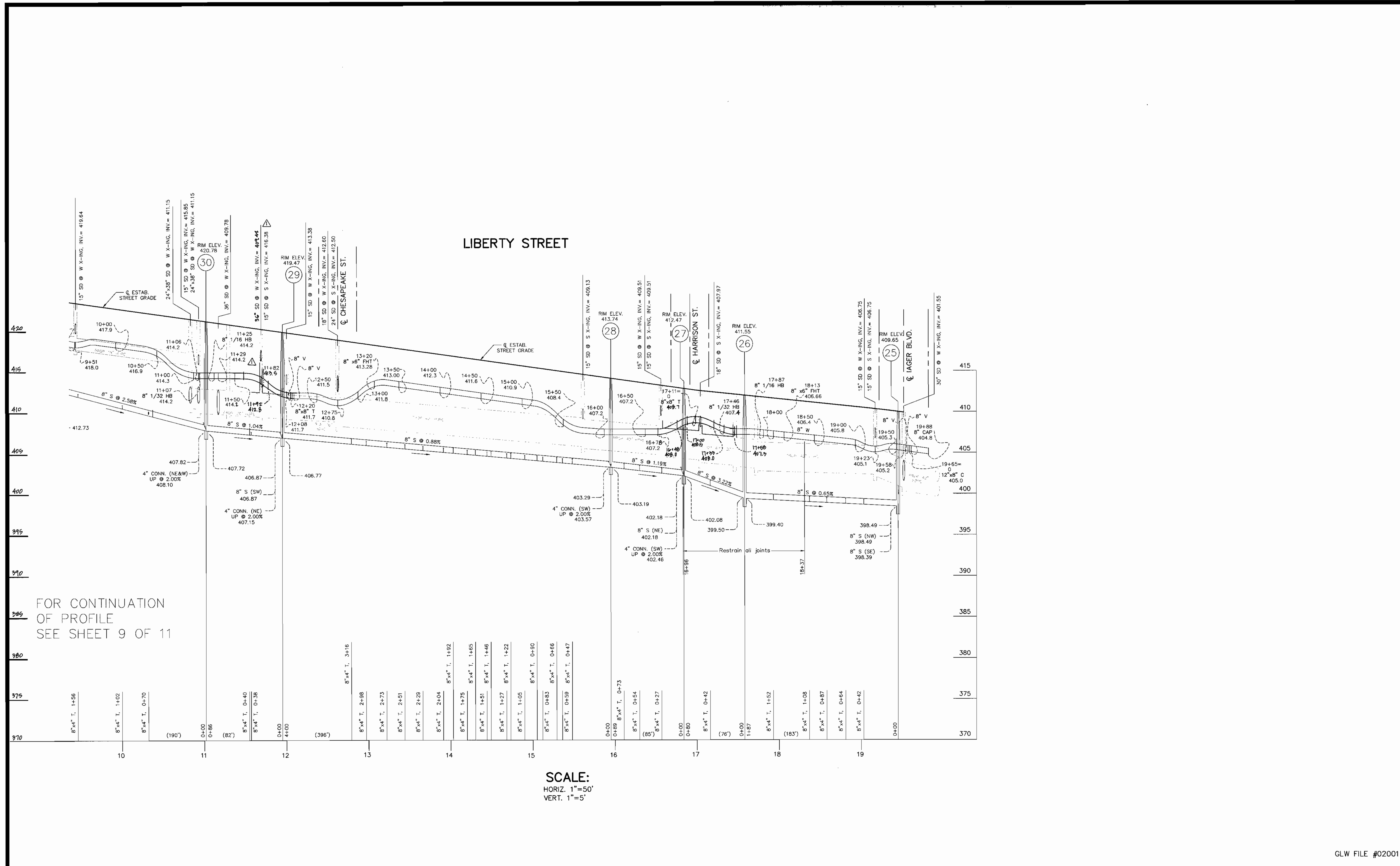
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HORIZ. 1"=50'
VERT. 1"=5'

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GLW FILE #02001

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>Robert Berman</i> 5-5-03 CHIEF, BUREAU OF UTILITIES DATE</p>	<p>DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND</p> <p><i>Robert Berman</i> 5/15/03 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE</p>	<p>GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186</p>		<table border="1"> <tr> <td>DES: BB</td> <td>JAK</td> <td>Δ</td> <td>revise water main invert to avoid conflict with storm drain.</td> <td>11/12/03</td> </tr> <tr> <td>DRN: VAR</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHK: CKG</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DATE: 4/03</td> <td>BY: NO</td> <td>REVISION</td> <td></td> <td>DATE</td> </tr> </table>	DES: BB	JAK	Δ	revise water main invert to avoid conflict with storm drain.	11/12/03	DRN: VAR					CHK: CKG					DATE: 4/03	BY: NO	REVISION		DATE	<p>WATER and SEWER EXTENSION PLAN</p> <p>600' SCALE MAP NO. 46 BLOCK NO. 4</p>	<p>MAPLE LAWN FARMS MIDTOWN DISTRICT - AREA 1 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127 COMMON OPEN AREAS 128 THRU 132 AND PARCELS 'A', 'B', & 'C' P. 121, P. 450 and P. 205 CONTRACT No. 24-4105-D 5TH ELECTION DISTRICT</p>	<p>SCALE AS SHOWN</p> <p>SHEET 8 OF 11</p>
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FOR CONTINUATION
OF PROFILE
SEE SHEET 9 OF 11

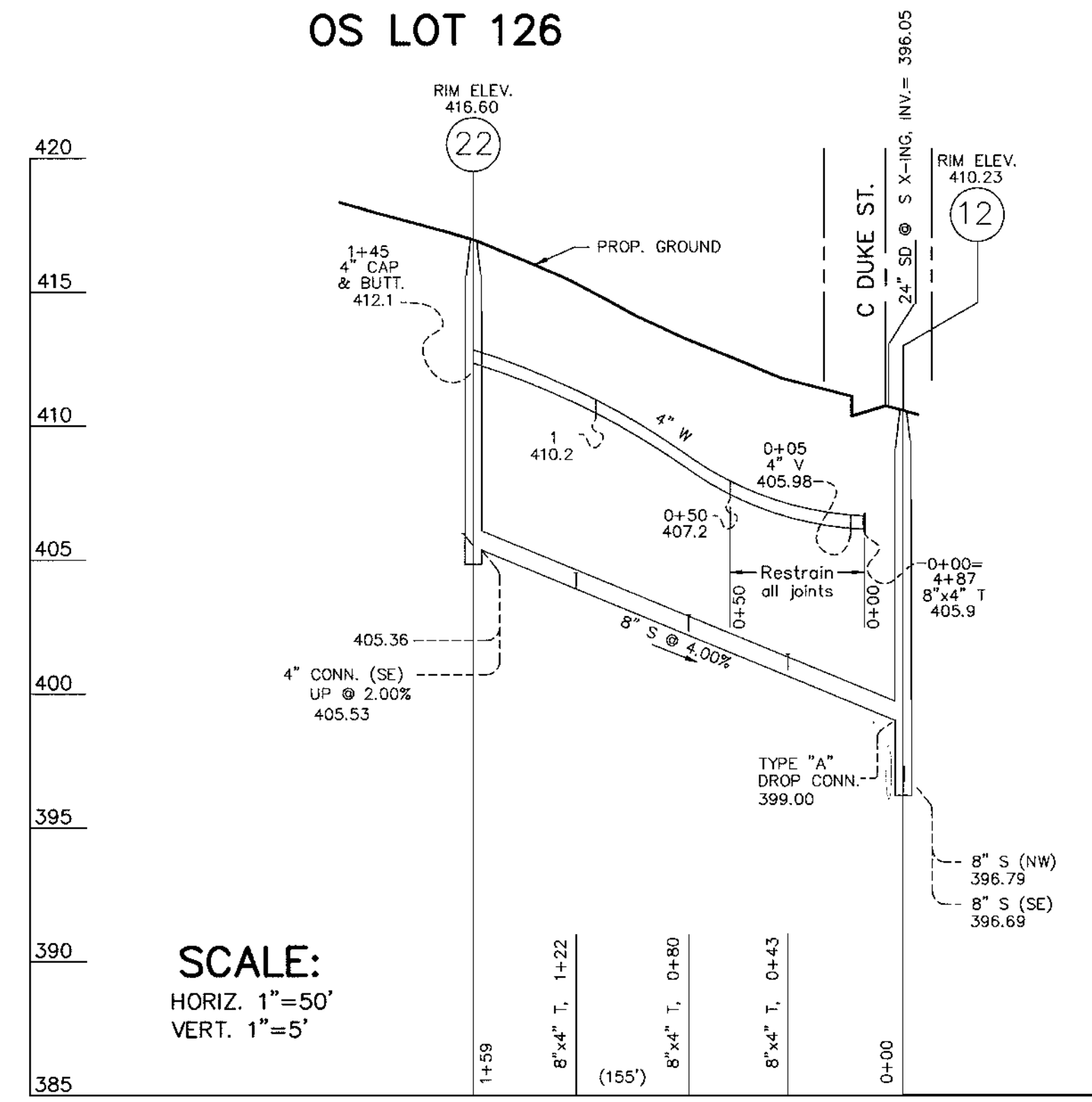
SCALE:
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VERT. 1"=5'

GLW FILE #02001

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>R. H. ...</i> 5-5-03 CHIEF, BUREAU OF UTILITIES</p>	<p>DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND</p> <p><i>...</i> DATE</p>	<p>GLWGUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTOWNVILLE OFFICE PARK BURTOWNVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-999-2524 FAX: 301-421-4186</p>		<table border="1"> <tr> <td>DES: BB</td> <td>JAIL</td> <td>include water main in vent to avoid conflict with storm drain.</td> <td>4/12/03</td> </tr> <tr> <td>DRN: VAR</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHK: CKG</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DATE: 4/03</td> <td>BY</td> <td>NO</td> <td>REVISION</td> </tr> </table>	DES: BB	JAIL	include water main in vent to avoid conflict with storm drain.	4/12/03	DRN: VAR				CHK: CKG				DATE: 4/03	BY	NO	REVISION	<p>WATER and SEWER EXTENSION PLAN</p> <p>600' SCALE MAP NO. 46 BLOCK NO. 4</p>	<p>MAPLE LAWN FARMS MIDTOWN DISTRICT - AREA 1 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127 COMMON OPEN AREAS 128 THRU 132 AND PARCELS 'A', 'B', & 'C' P. 121, P. 450 and P. 205 CONTRACT No. 24-4105-D 5TH ELECTION DISTRICT</p>	<p>SCALE AS SHOWN</p> <p>SHEET 10 OF 11</p>
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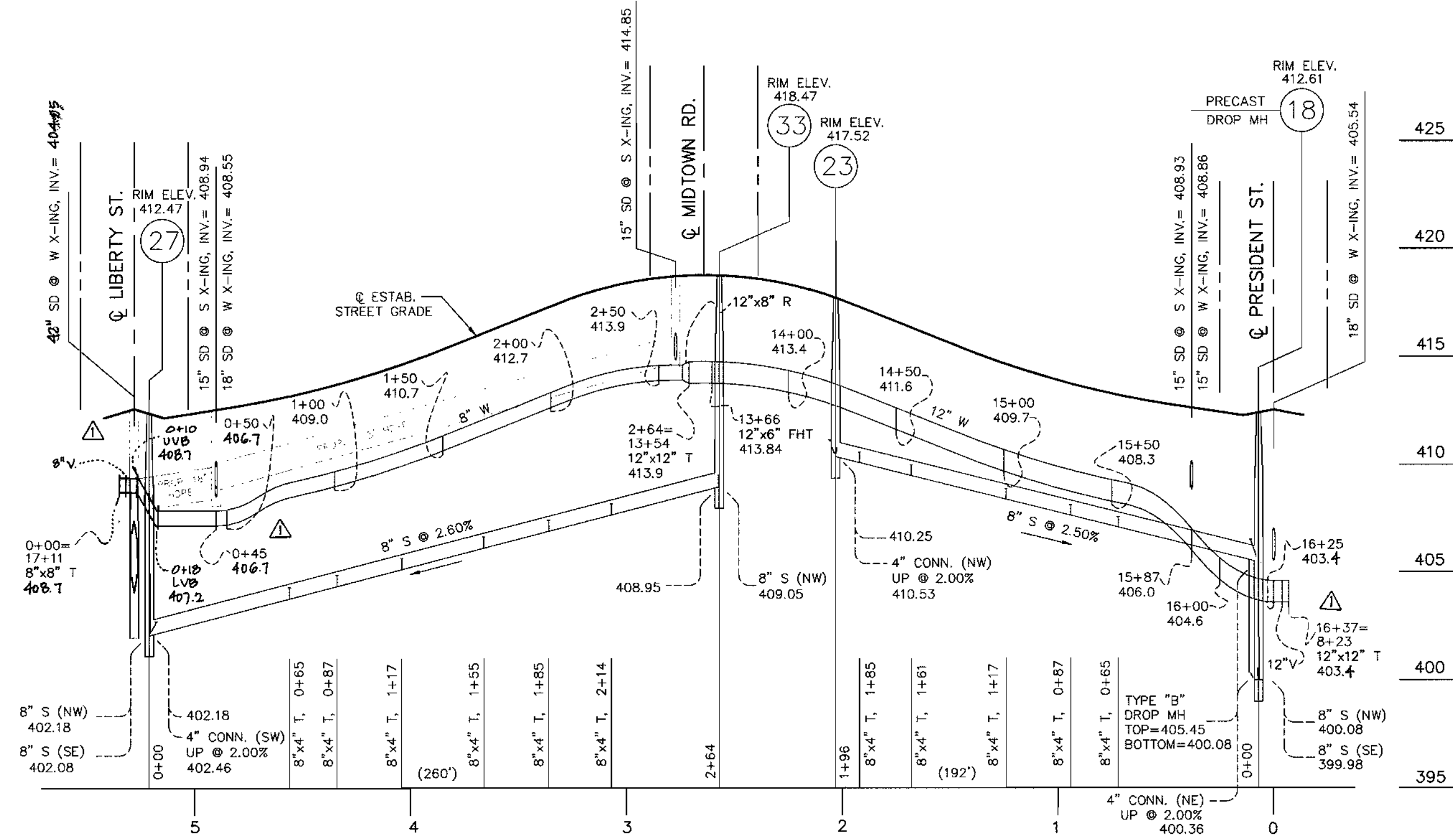
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OS LOT 126

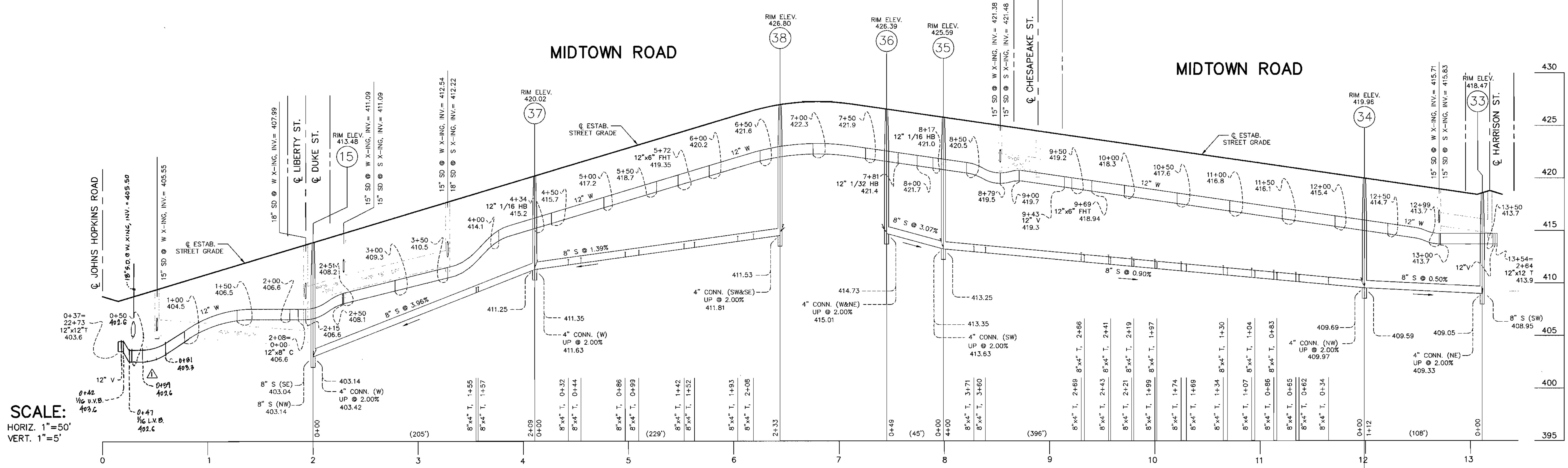


SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

HARRISON STREET



MIDTOWN ROAD



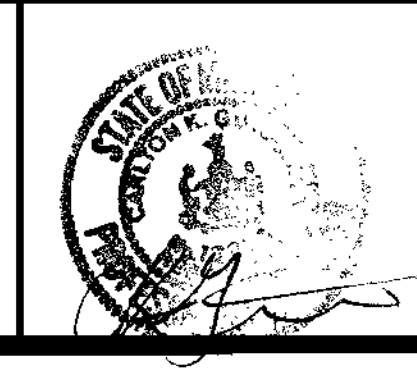
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GLW FILE #02001

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert B. Smith 5-5-03
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
John D. ... 5/14/03
DATE

GLWGUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTSMVILLE OFFICE PARK
BURTSMVILLE, MARYLAND 20866
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DES: BB	JAW	revise water main invert to avoid conflict with storm drain.	4/12/03
DRN: VAR			
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WATER and SEWER EXTENSION PLAN
600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

SCALE AS SHOWN
SHEET 11 OF 11

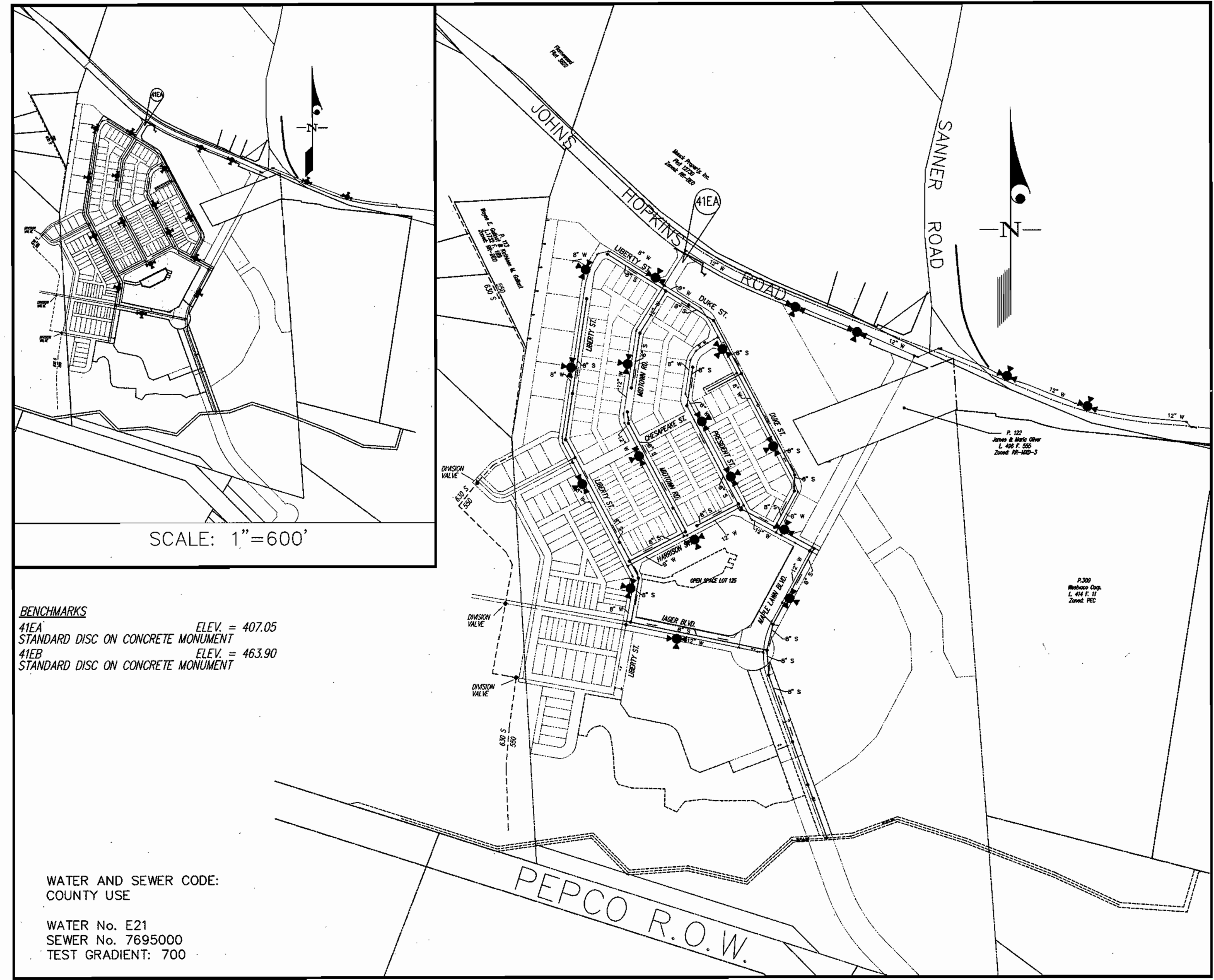
CONTRACT No. 24-4105-D
 MAPLE LAWN FARMS
 LOTS 1 THRU 120
 OPEN SPACE LOTS 121 THRU 127
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

TYPE OF BUILDING	SINGLE FAMILY
NUMBER OF UNITS	120
NUMBER OF S.H.C.'s	144
NUMBER OF W.H.C.'s	144
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	LITTLE PATUXENT WWTP

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
4" WATER	145 LF		D.I.P.	GRIFFIN PIPE
6" WATER (FH's)	273 LF	105 L.F.	D.I.P.	GRIFFIN PIPE
8" WATER	4397 LF	5979 L.F.	D.I.P.	GRIFFIN PIPE
12" WATER	5364 LF	4754 L.F.	D.I.P.	GRIFFIN PIPE
1" WHC	1004 LF	3012 L.F.	COPPER	
1 1/2" WHC VOID	1532 LF VOID			
12" 1/16 U.V.B.	1 EA.		D.I.P.	HUGHES SUPPLY
12" 1/16 L.V.B.	1 EA.			
12"x12" CROSS	1 EA.			
12"x8" CROSS	2 EA.			
12"x6" FHT	10 EA.			
12"x8" T	1 EA.			
12"x8" T	1 EA.			
12"x12" T	6 EA.	4 EA.		
12"x8" REDUCER	3 EA.			
12" VALVE	16 EA.	13 EA.		
12" CAP	3 EA.	2 EA.		
12" PLUG	3 EA.			
12" 1/32 UVB	2 EA.	1 EA.		
12" 1/32 LVB	2 EA.	1 EA.		
12" 1/8 HB	4 EA.			
12" 1/16 HB	3 EA.	2 EA.		
12" 1/32 HB	1 EA.			
8" 1/8HB	4 EA.	3 EA.		
8" 1/16HB	5 EA.	0 EA.		
8" 1/32HB	2 EA.			
8"x8" T	3 EA.			
8"x6" T (FHT)	9 EA.			
8"x4" T	1 EA.			
8" VALVE	11 EA.	10 EA.		
8" CAP	3 EA.			
6" VALVE (FHV)	19 EA.			
4" VALVE	1 EA.			
4" CAP	1 EA.			
8" 1/32 U.V.B.	1 EA.			
8" 1/32 L.V.B.	1 EA.			
FIRE HYDRANT - 4.5'	4 EA.		KENNEDY	HUGHES SUPPLY
FIRE HYDRANT - 5.0'	12 EA.			
FIRE HYDRANT - 5.5'	3 EA.			
6" VALVE		1 EA.		
8" PVC SEWER	7071 LF	7198 L.F.	SDR-35	HUGHES SUPPLY
8" D.I. SEWER	228 LF			GRIFFIN PIPE
6" PVC (SHC)	108 LF	80 L.F.	SDR-35	HUGHES SUPPLY
4" PVC (SHC)	3860 LF	3751 L.F.	SDR-35	HUGHES SUPPLY
MH's	39 EA.		PRECAST	CONTRACTORS PRECAST
DROP	2 EA.		PRECAST	CONTRACTORS PRECAST
8" STOPPER	7 EA.			EAST JORDAN IRON WORKS

NAME OF UTILITY CONTRACTOR: GAINES & CO. UNDERGROUND UTILITIES

SURVEY AND DRAFTING DIV. CHECKBOX: AS-BUILT DATE: 6-09-04



BENCHMARKS
 41EA STANDARD DISC ON CONCRETE MONUMENT ELEV. = 407.05
 41EB STANDARD DISC ON CONCRETE MONUMENT ELEV. = 463.90

WATER AND SEWER CODE:
 COUNTY USE

WATER No. E21
 SEWER No. 7695000
 TEST GRADIENT: 700

VICINITY MAP
 SCALE: 1"=300'

GENERAL NOTES

- PART I
- Approximate locations 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, NAD 83/91.
 - All vertical controls are based on NAVD 88.
 - All pipe elevations shown are invert elevations unless otherwise noted on the plans.
 - Clear all utilities by a minimum of 12". Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. 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 the bracing of additional poles or damages shall be deducted from monies 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 Details 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 (S) at the locations 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.
 - The contractor shall notify the following utility companies or agencies at least (5) working days before starting work shown on these plans:

AT&T	1-800-252-1133
BCE (Contractor Services)	410-850-4620
BCE (Under Ground Damage Control)	410-787-9068
Bureau of Utilities	410-313-4900
Colonial Pipeline Co.	410-795-1390
Miss Utility	1-800-257-7777
State Highway Administration	410-531-5533
Verizon	1-800-743-0033/410-224-9210
 - 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.
 - The 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.
 - The contractor shall notify the Bureau of Highways, Howard County, at 410-313-2450 at least five (5) working days before any open cutting or boring/jacking of any County road or boring/jacking operation on County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirement per Section 18.114(a) of the Howard County Code.
 - All buildable lots shown hereon shall have one (1) foot wide public easement adjacent to the Public Road Right of Way, for the purpose of sidewalk maintenance, water house connection and sewer house connection.
- PART II - WATER
- All water mains to be D.I.P. Class 52 unless otherwise noted.
 - Tops of all water mains shall have a minimum of 3'-6" 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 installed 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.
- PART III - SEWER
- 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.
 - Force mains shall be D.I.P. only.
 - Manholes shown with 12" and 16" walls are for brick manholes only.
 - Manholes designated W.T. in plan and profile shall have watertight frame and cover, Standard Detail G5.52. Where watertight manhole frames and covers are 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 the cellar cannot be served.

AS BUILT
 DATE: JUNE 09, 2004

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.
 Signature: John R. Robertson
 DATE: 5/7/03
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: John R. Robertson
 DATE: 5/7/03
 HOWARD S.C.D.



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Signature: Robert W. Berman
 DATE: 5-5-03
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Signature: [Signature]
 DATE: 5/14/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
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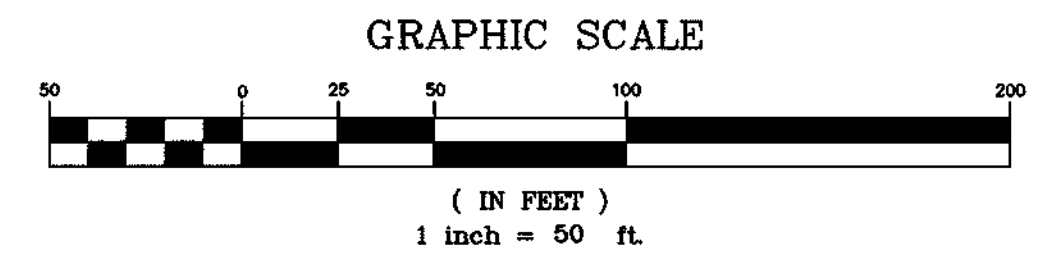
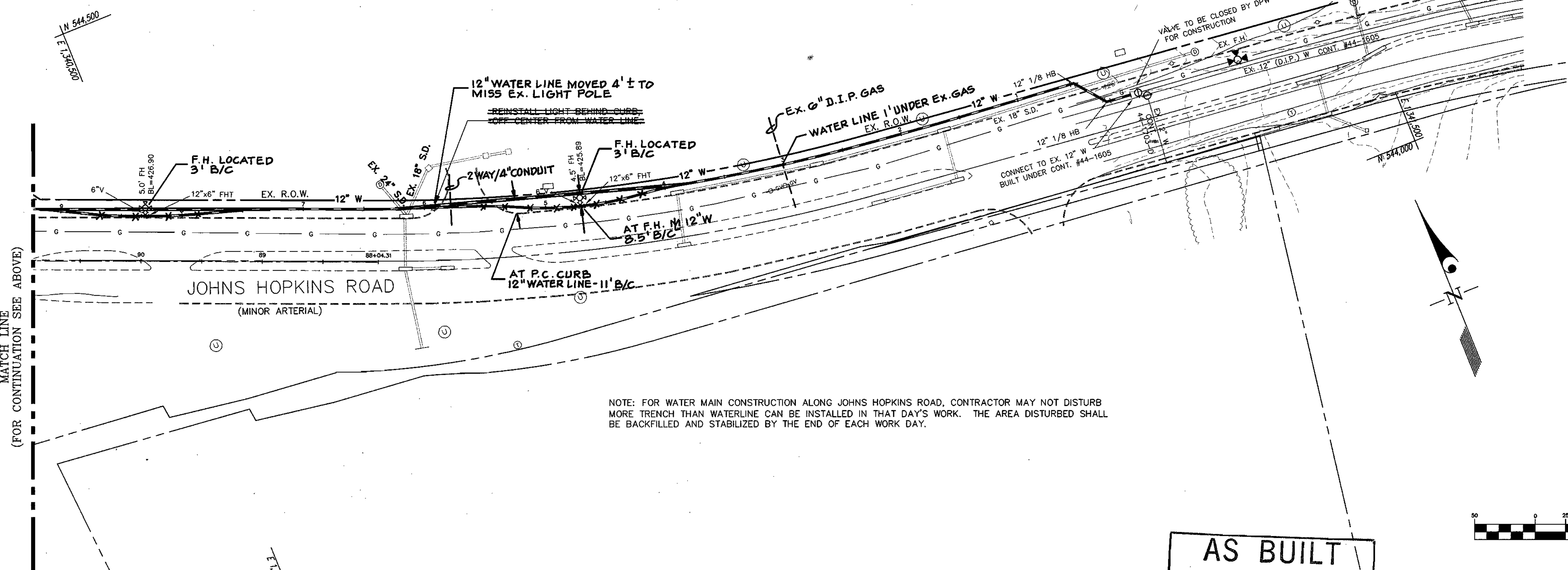
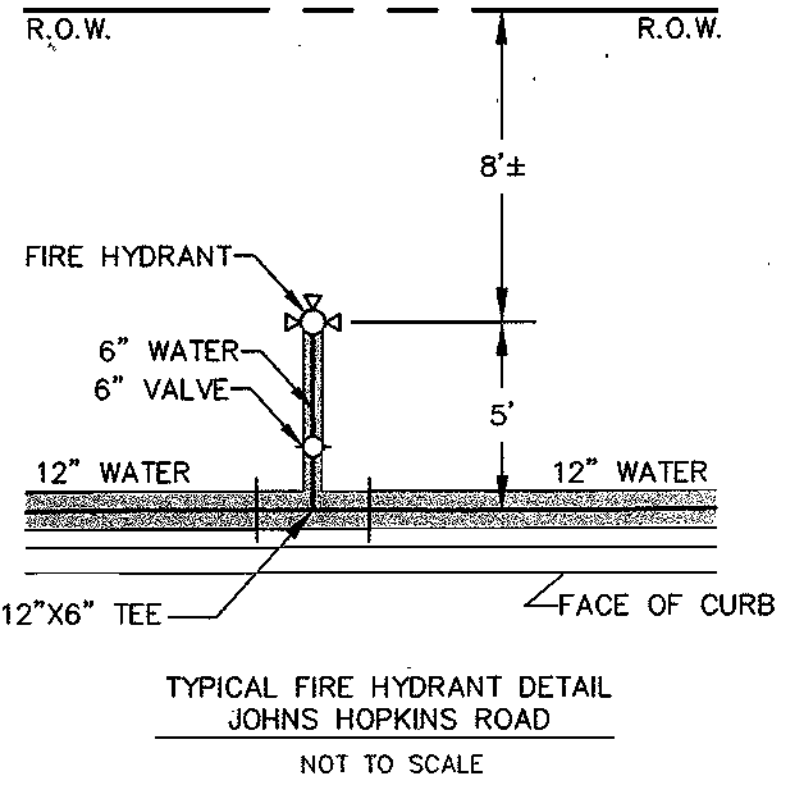
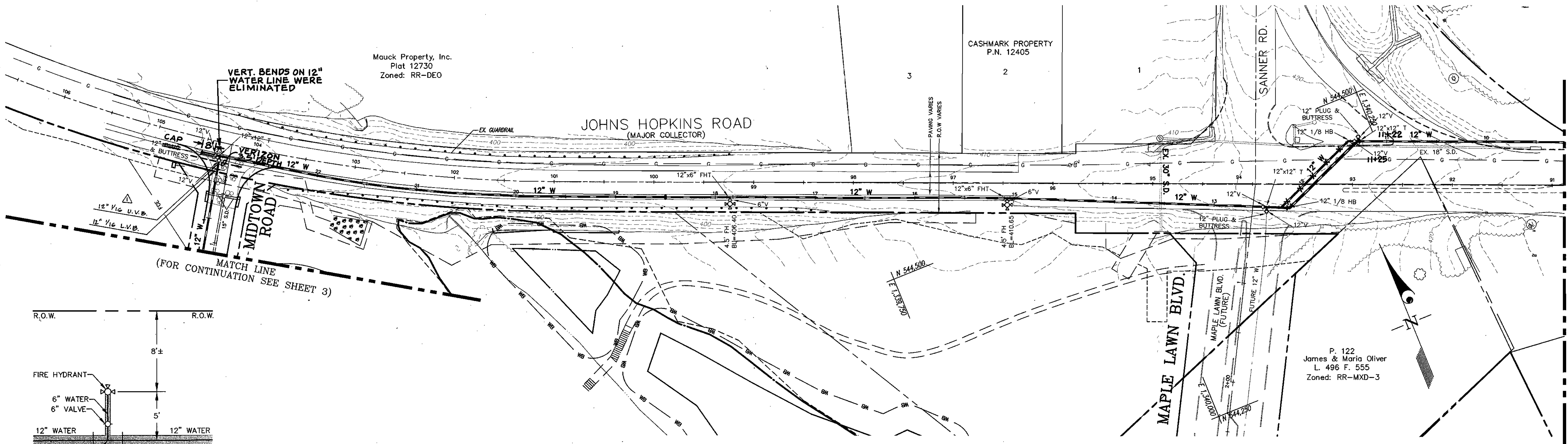
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DATE: 4/03	BY: NO	REVISION: DATE

TITLE SHEET
 SCALE: AS SHOWN
 600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
 MIDTOWN DISTRICT - AREA 1
 LOTS 1 THRU 120, OPENS SPACE LOTS 121 THRU 127
 COMMON OPEN AREAS 128 THRU 132 AND
 PARCELS 'A', 'B', & 'C'
 P. 121, P. 450 and P. 205
 CONTRACT No. 24-4105-D
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SCALE AS SHOWN
 SHEET 1 OF 11
 GLW FILE No. 02001

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AS BUILT
DATE: JUNE 09, 2004

MATCH LINE (FOR CONTINUATION SEE BELOW)

MATCH LINE (FOR CONTINUATION SEE ABOVE)

CLW FILE #02001

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert Deinger 5-5-03
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
John Dammery 5/14/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



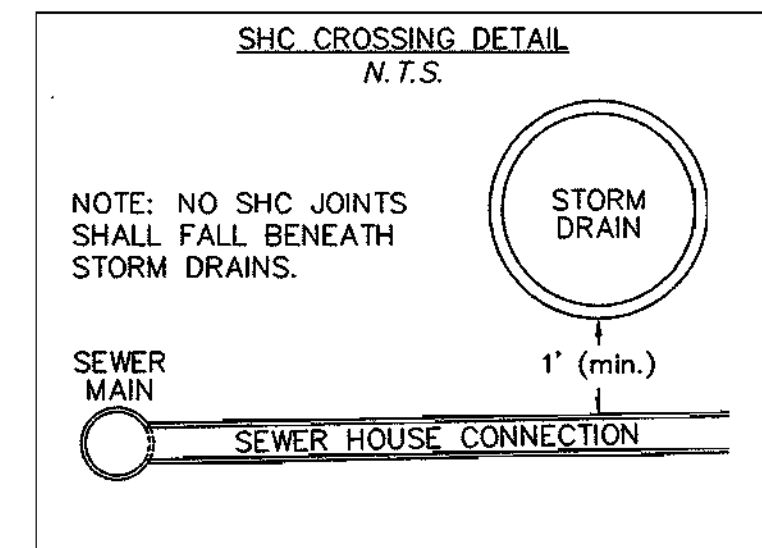
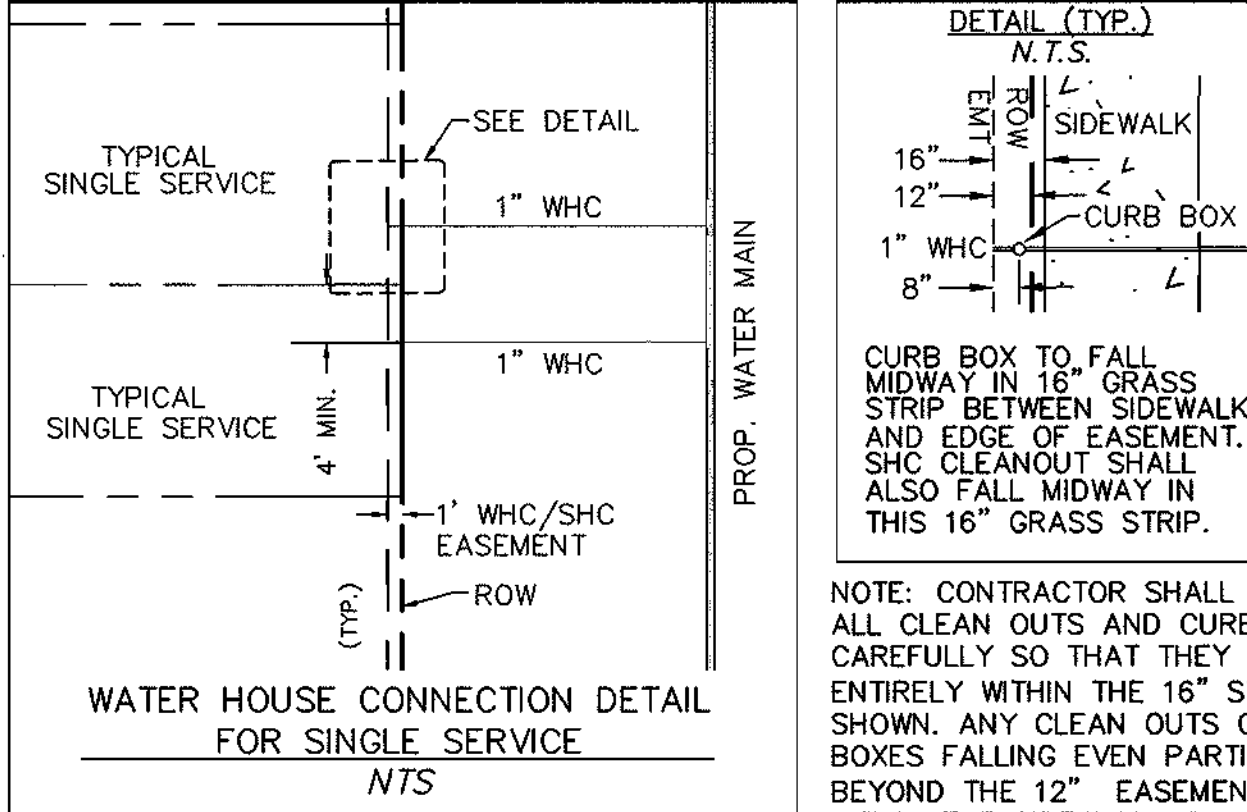
DES: BB	JAL	added upper & lower vert. bends to avoid conflict with storm drain.	11/12/03
DRN: VAR			
CHK: CKG			
DATE: 4/03	BY NO	REVISION	DATE

WATER and SEWER EXTENSION PLAN
600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

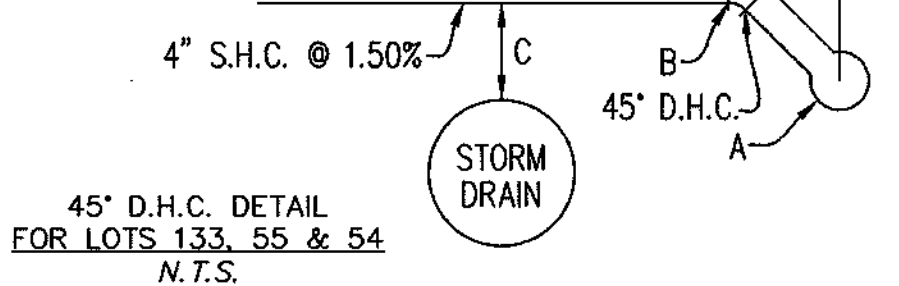
SCALE AS SHOWN
SHEET 2 OF 11

All buildable lots shown hereon shall have a one (1) foot wide public easement adjacent to the Public Road Right of Way, for the purpose of sidewalk maintenance, water house connections and sewer house connections.



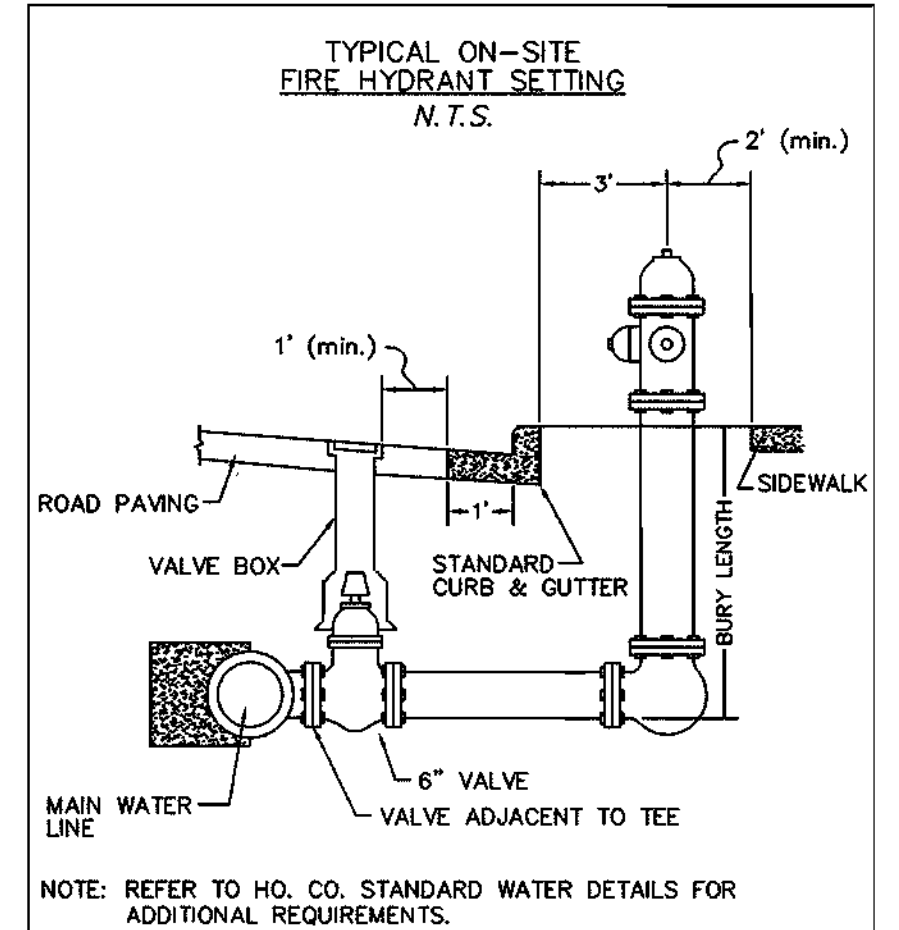
ALL SHC'S SHOWN SERVING NUMBERED LOTS ARE 4" DIAMETER.

LOT #	A	B	C
133	395.03	396.30	1.2'
55	395.23	396.50	1.0'
54	395.51	396.78	1.0'

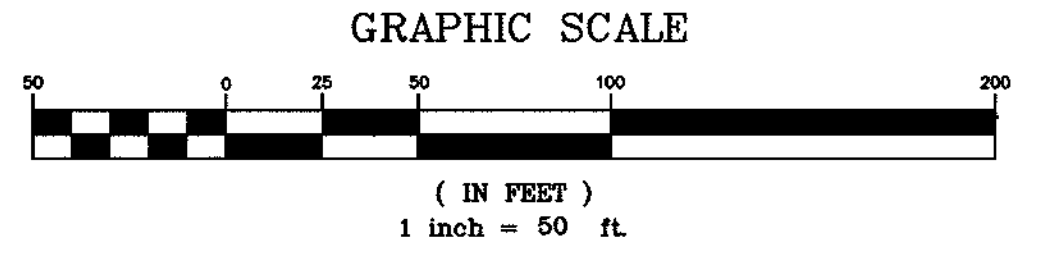


SEWER HOUSE CONNECTIONS
MINIMUM CELLAR ELEVATIONS and INVERT ELEVATION @ R

LOT	MINIMUM CELLAR ELEVATION	ELEVATION @ PROP. LINE	LOT	MINIMUM CELLAR ELEVATION	ELEVATION @ PROP. LINE	LOT	MINIMUM CELLAR ELEVATION	ELEVATION @ PROP. LINE
1	411.21	407.47	54	400.44	397.21	107	408.03	404.89
2	411.34	407.63	55	400.16	396.93	108	407.46	404.32
3	412.61	408.58	56	405.89	402.71	109	406.46	402.78
4	414.50	410.87	57	406.19	402.94	110	407.48	404.31
5	415.92	412.27	58	406.47	403.25	111	407.68	404.52
6	417.04	413.43	59	406.78	403.54	112	407.88	404.72
7	417.79	414.14	60	407.32	404.08	113	408.07	404.91
8	418.57	415.00	61	407.58	404.40	114	408.32	405.12
9	419.11	415.46	62	407.87	404.73	115	408.55	405.32
10	419.78	416.13	63	408.20	405.04	116	408.83	405.59
11	420.44	416.79	64	408.56	405.38	117	408.97	405.81
12	421.08	417.45	65	408.18	405.94	118	409.14	406.00
13	421.76	418.28	66	408.71	405.55	119	409.36	406.19
14	419.15	415.79	67	408.42	405.24	120	409.62	406.41
15	417.16	413.80	68	408.12	404.93	123	399.90	396.74
16	415.13	411.73	69	407.81	404.62	134	399.17	395.54
17	413.07	409.71	70	407.37	404.16	135	398.91	395.22
18	411.09	407.69	71	406.90	403.71	136	397.90	394.36
19	407.20	403.74	72	407.02	403.80	137	397.15	394.03
20	413.13	409.55	73	406.40	403.22	138	398.86	395.74
21	415.85	412.24	74	406.08	402.92	139	403.17	399.84
22	416.32	412.67	75	405.79	402.59	140	404.12	400.96
23	417.08	413.45	76	404.52	401.13	141	404.37	401.12
24	417.84	414.19	77	410.67	407.51	142	404.75	401.58
25	418.57	414.94	78	411.20	408.04	143	404.97	401.72
26	419.11	415.60	79	412.13	408.81	144	405.31	402.06
27	419.21	415.61	80	413.11	409.91	145	(FUTURE)	422.11
28	417.99	414.23	81	413.67	410.51	146	(FUTURE)	418.78
29	417.19	413.73	82	414.08	410.87	147	(FUTURE)	417.50
30	417.17	413.54	83	414.11	410.61	148	(FUTURE)	415.71
31	419.03	415.35	84	413.92	410.76	149	(FUTURE)	413.94
32	418.81	415.22	85	414.13	410.95	150	(FUTURE)	410.26
33	418.22	414.57	86	414.34	411.14	151	411.90	408.64
34	417.38	413.75	87	414.57	411.37	171	406.70	403.54
35	416.68	413.03	88	414.97	411.77	172	406.38	403.22
36	414.31	410.68	89	415.15	411.97	173	406.26	403.10
37	413.31	409.39	90	415.35	412.17	174	404.95	401.83
38	406.64	403.30	91	415.57	412.39	175	403.21	400.09
39	406.62	403.10	92	415.79	412.59	176	402.99	398.87
40	406.36	403.10	93	416.19	412.91	177	402.56	399.54
41	404.34	400.93	94	416.87	412.68	178	402.76	379.64
42	401.98	398.64	95	415.66	412.47	179	402.87	399.75
43	412.50	408.74	96	415.46	412.27	180	409.37	405.52
44	412.06	408.56	97	415.29	412.00	181	409.04	405.24
45	411.42	407.83	98	414.98	411.69	182	408.57	404.77
46	411.23	407.63	99	414.62	411.44	183	408.27	404.47
47	411.05	407.29	100	414.45	411.25	184	407.82	404.02
48	410.53	407.27	101	414.28	411.07	185	407.09	403.29
49	409.07	405.77	102	414.14	410.73	186	406.63	402.83
50	407.86	404.38	103	411.49	408.19	187	406.41	402.61
51	405.97	402.55	104	410.60	407.44	188	406.17	402.37
52	404.40	401.02	105	409.98	406.66	189	405.94	402.14
53	400.54	396.85	106	408.99	405.67			



AS BUILT
DATE: JUNE 09, 2004



GLW FILE #02001

THIS SHEET SUPERCEDES THE SHEET SIGNED ON 5/14/03.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Ruth Beavers</i> 1-27-04 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>Chris DeWitt</i> 1/30/04 CHIEF, DEVELOPMENT ENGINEERING DIVISION
---	---

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 230 - BURTNSVILLE OFFICE PARK
BURTNSVILLE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-880-1820 DC/WA: 301-989-2524 FAX: 301-421-4186

DES: BB			
DRN: VAR			
CHK: CKG			
DATE: 4/03	BY NO	REVISION	DATE

WATER and SEWER EXTENSION
600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

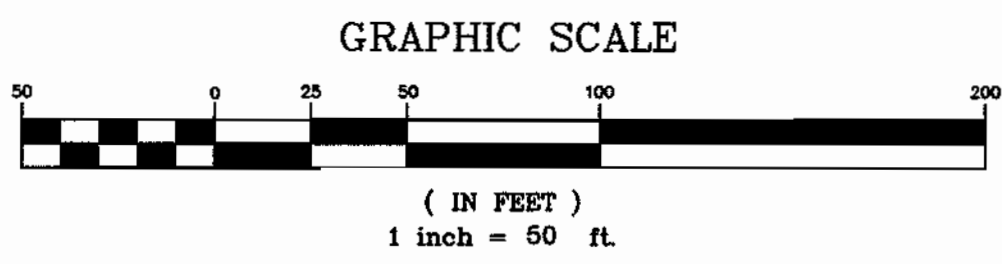
SCALE
1"=50'
SHEET
3 OF 11

L:\CADD\DRAWINGS\02001\PHASE 2 (02001)\FINAL\02001WS1.dwg 01/16/2004 02:26:22 PM EST

All buildable lots shown hereon shall have a one (1) foot wide public easement adjacent to the Public Road Right of Way, for the purpose of sidewalk maintenance, water house connections and sewer house connections.
 ALL SHC'S SHOWN SERVING NUMBERED LOTS ARE 4" DIAMETER.

Note: When 8" W is extended in future, provide restrained joints for first 50' measured from 8"x8" T in Liberty Street. Restrain joints in this contract.

AS BUILT
 DATE: JUNE 06, 2004



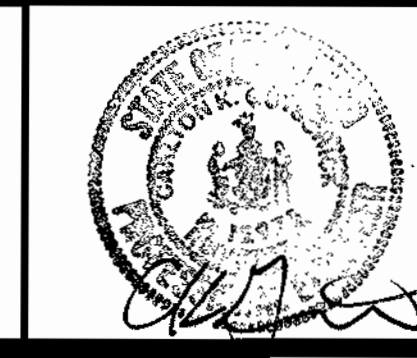
THIS SHEET SUPERCEDES THE SHEET SIGNED ON 5/14/03.

GLW FILE #02001

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Robert M. Beisinger 1-27-04
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
William D. ... 1/30/04
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 200 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20886
 TEL: 301-421-4024 FAX: 301-421-4186



DES: BB	BY	NO	REVISION	DATE
DRN: VAR				
CHK: CKG				
DATE: 4/03				

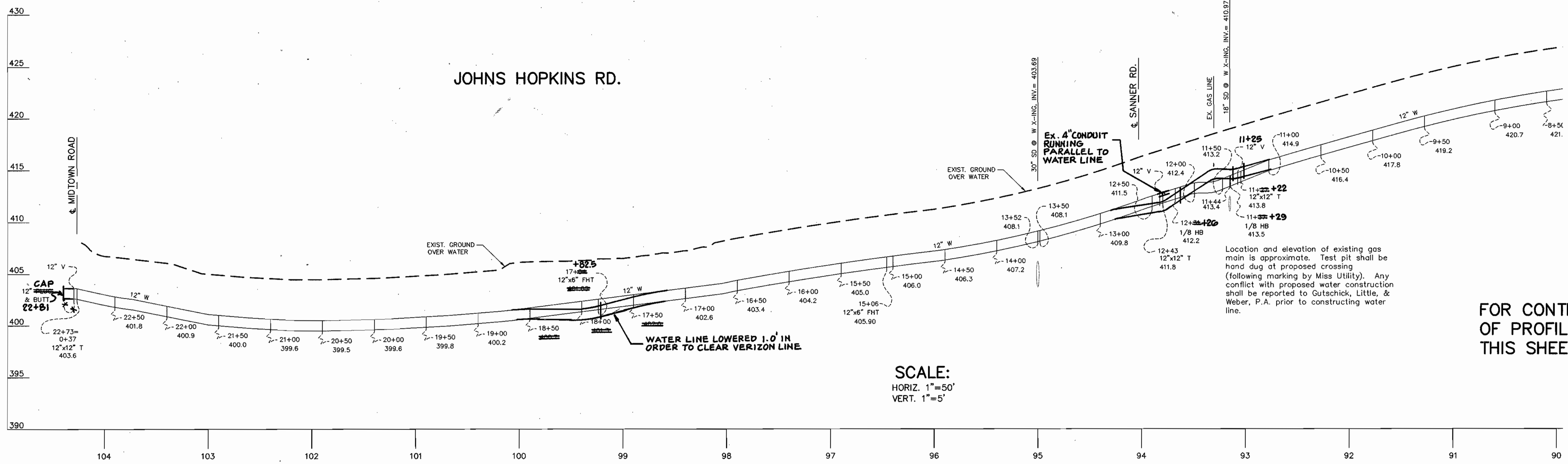
WATER and SEWER EXTENSION PLAN
 600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
 MIDTOWN DISTRICT - AREA 1
 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
 COMMON OPEN AREAS 128 THRU 132 AND
 PARCELS 'A', 'B', & 'C'
 P. 121, P. 450 and P. 205
 CONTRACT NO. 24-4105-D
 5TH ELECTION DISTRICT

SCALE 1"=50'
 SHEET 4 OF 11

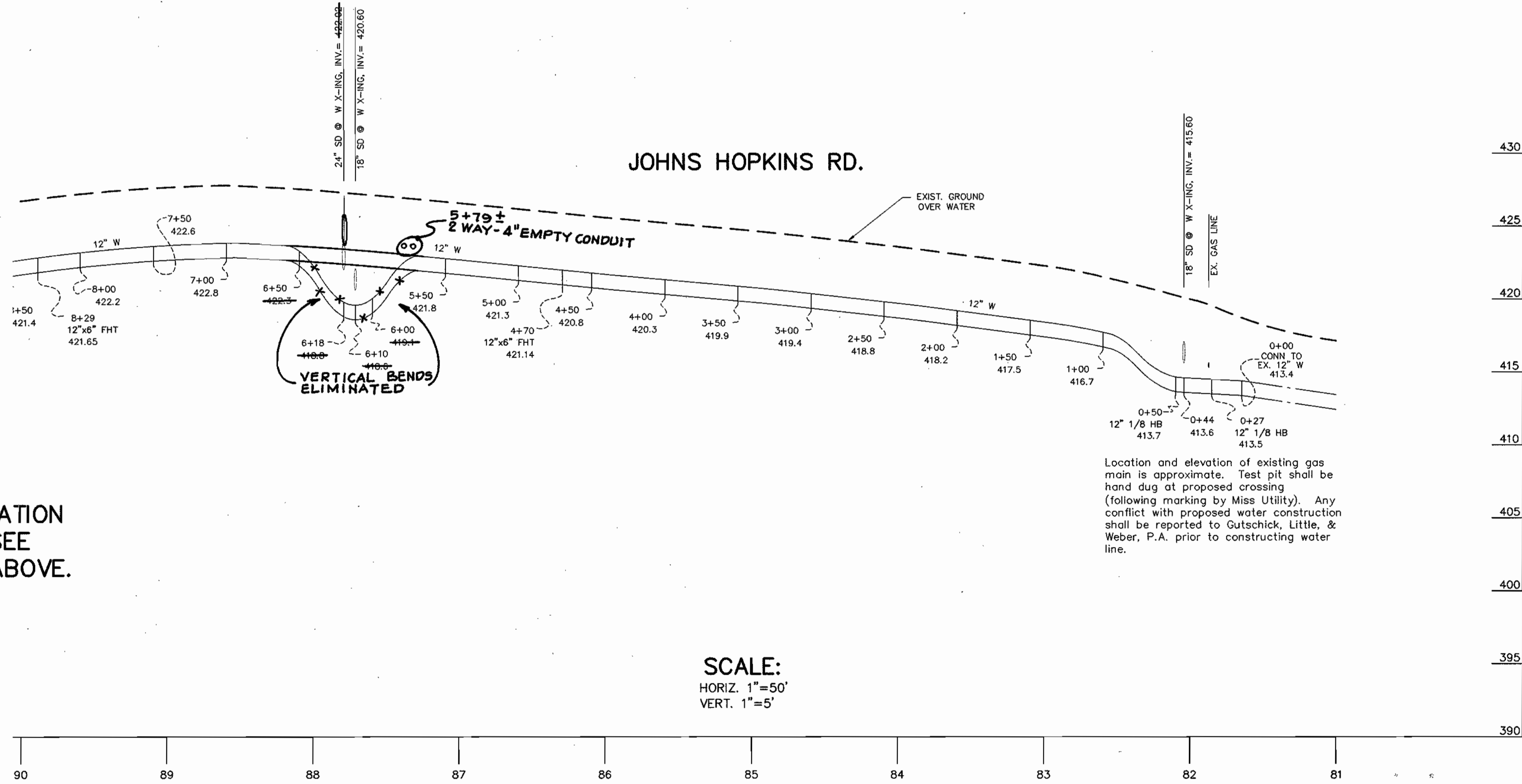
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L:\CADD\DRAWINGS\02001\PHASE 2 (02001)\FINALS\02001WS.dwg 05/02/2003 10:56:04 AM EDT



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

FOR CONTINUATION
OF PROFILE SEE
THIS SHEET BELOW.



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

FOR CONTINUATION
OF PROFILE SEE
THIS SHEET ABOVE.

AS BUILT
DATE: JUNE 06, 2004

GLW FILE #02001

DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
Chief Development Engineering Division
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLWGUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONTOWNE OFFICE PARK
BURTONTOWNE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-999-2524 FAX: 301-421-4186



DES: BB				
DRN: VAR				
CHK: CKG				
DATE: 4/03	BY	NO	REVISION	DATE

**WATER and SEWER EXTENSION
PLAN**
600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

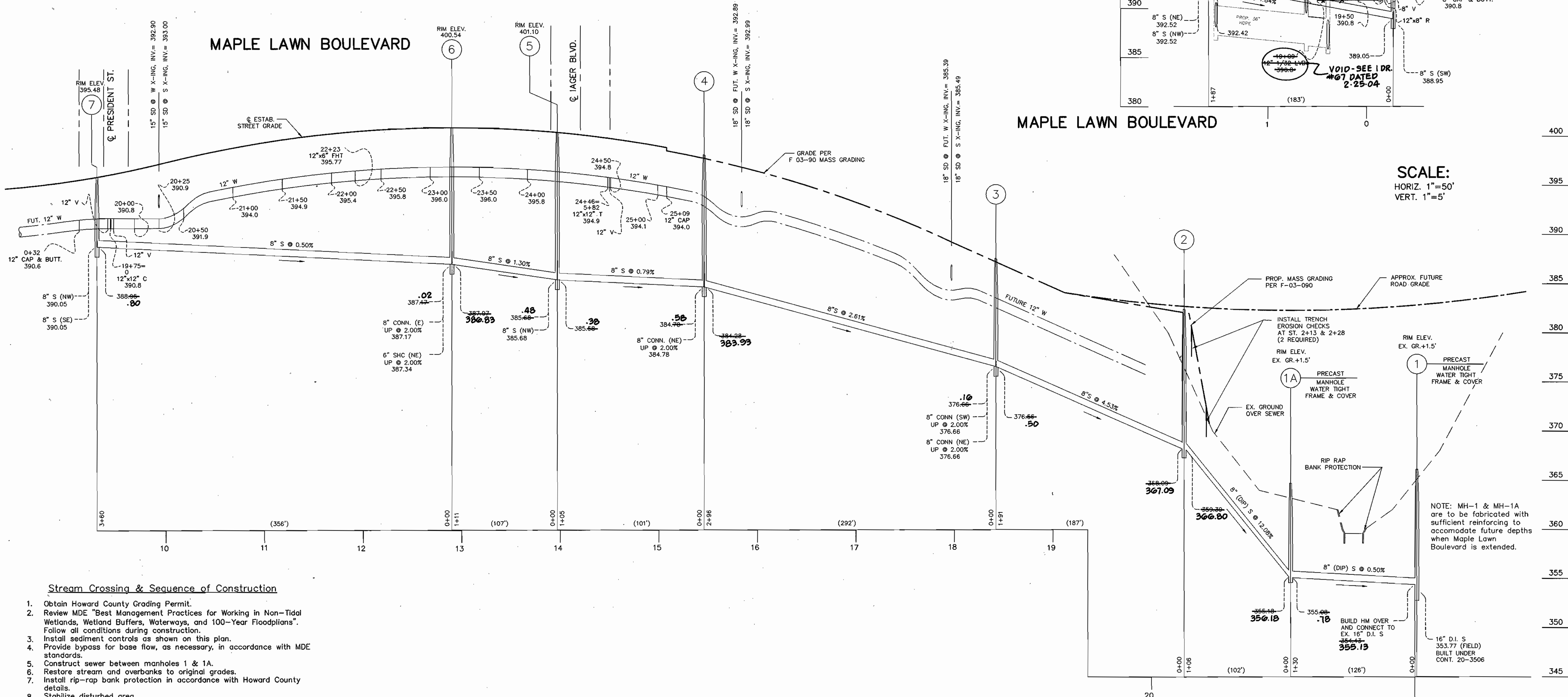
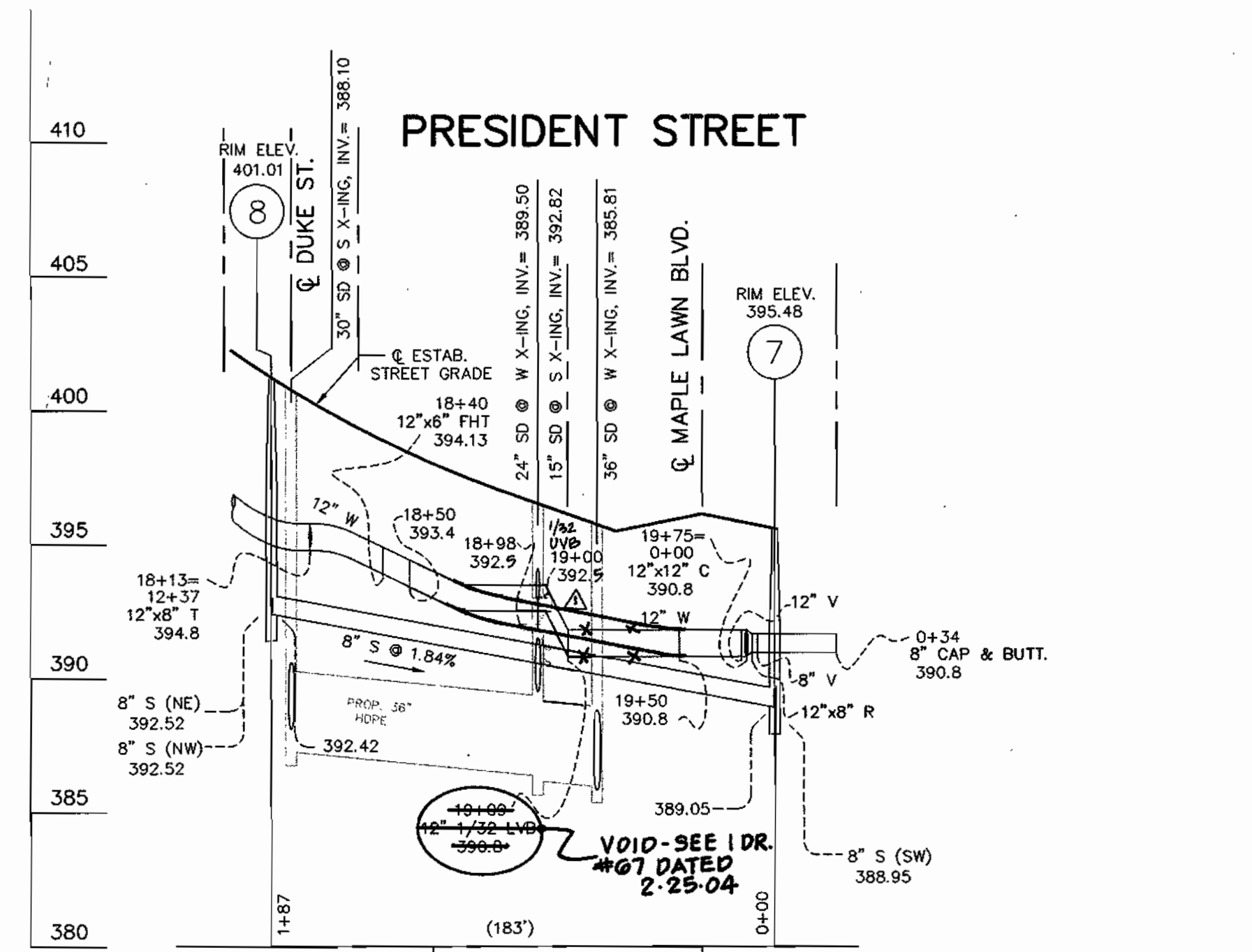
SCALE
AS
SHOWN
SHEET
5 OF 11

BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, AND 100-YEAR FLOODPLAINS

- No excess fill, construction material, or debris shall be stockpiled or stored in nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- Place materials in a location and manner that does not adversely impact surface or subsurface water flow into or out of nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- Do not use the excavated material as backfill if it contains waste metal products, unsightly debris, toxic material, or any other deleterious substance. If additional backfill is required, use clean material free of waste metal products, unsightly debris, toxic material, or any other deleterious substance.
- Place heavy equipment on mats or suitably operate the equipment to prevent damage to nontidal wetlands, nontidal wetland buffers, waterways, to the 100-year floodplain.
- Repair and maintain any serviceable structure or fill so there is no permanent loss of nontidal wetlands, nontidal wetland buffers, or waterways, or permanent modification of the 100-year floodplain in excess of that lost under the originally authorized structure or fill.
- Rectify any nontidal wetlands, wetland buffers, waterways, or 100-year floodplain temporarily impacted by any construction.
- All stabilization in the nontidal wetland and nontidal wetland buffer shall consist of the following species: Annual Ryegrass (*Lolium multiflorum*), Millet (*Setaria italica*), Barley (*Hordeum sp.*), Oats (*Uniola sp.*), and/or Rye (*Secale cereale*). These species will allow for the stabilization of the site while also allowing for the voluntary revegetation of natural wetland species. Other non-persistent vegetation may be acceptable, but must be approved by the Nontidal Wetlands and Waterways Division. Kentucky 31 fescue shall not be utilized in wetland or buffer areas. The area should be seeded and mulched to reduce erosion after construction activities have been completed.
- After installation has been completed, make post-construction grades and elevations the same as the original grades and elevations in temporarily impacted areas.
- To protect aquatic species, in-stream work is prohibited as determined by the classification of the stream:

Use 1 waters: In-stream work shall not be conducted during the period March 1 through June 15, inclusive, during any year.

- Stormwater runoff from impervious surfaces shall be controlled to prevent the washing of debris into the waterway.
- Culverts shall be constructed and any riprap placed so as not to obstruct the movement of aquatic species, unless the purpose of the activity is to impound water.



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

AS BUILT
DATE: JUNE 06, 2004

Stream Crossing & Sequence of Construction

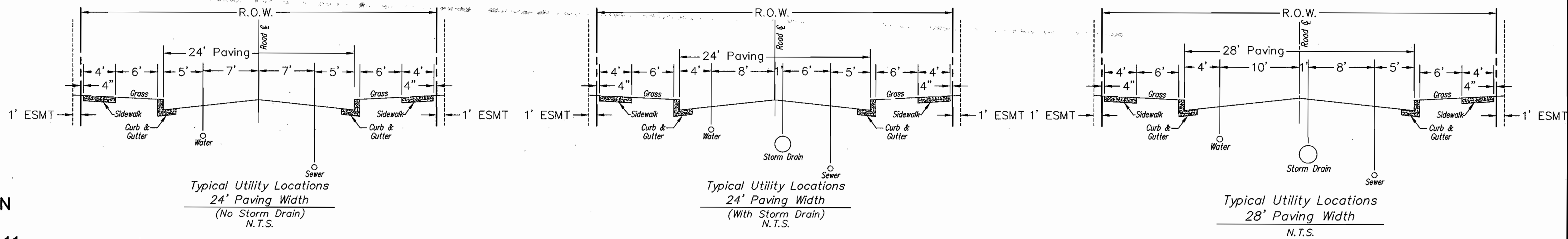
- Obtain Howard County Grading Permit.
- Review MDE "Best Management Practices for Working in Non-Tidal Wetlands, Wetland Buffers, Waterways, and 100-Year Floodplains". Follow all conditions during construction.
- Install sediment controls as shown on this plan.
- Provide bypass for base flow, as necessary, in accordance with MDE standards.
- Construct sewer between manholes 1 & 1A.
- Restore stream and overbanks to original grades.
- Install rip-rap bank protection in accordance with Howard County details.
- Stabilize disturbed area.
- Continue with additional sewer construction above manhole 1A.

NOTE: MH-1 & MH-1A are to be fabricated with sufficient reinforcing to accommodate future depths when Maple Lawn Boulevard is extended.

L:\CADD\DRAWINGS\02001\PHASE 2 (02001)\FINAL\02001WS.dwg 05/02/2003 10:56:04 AM EDT

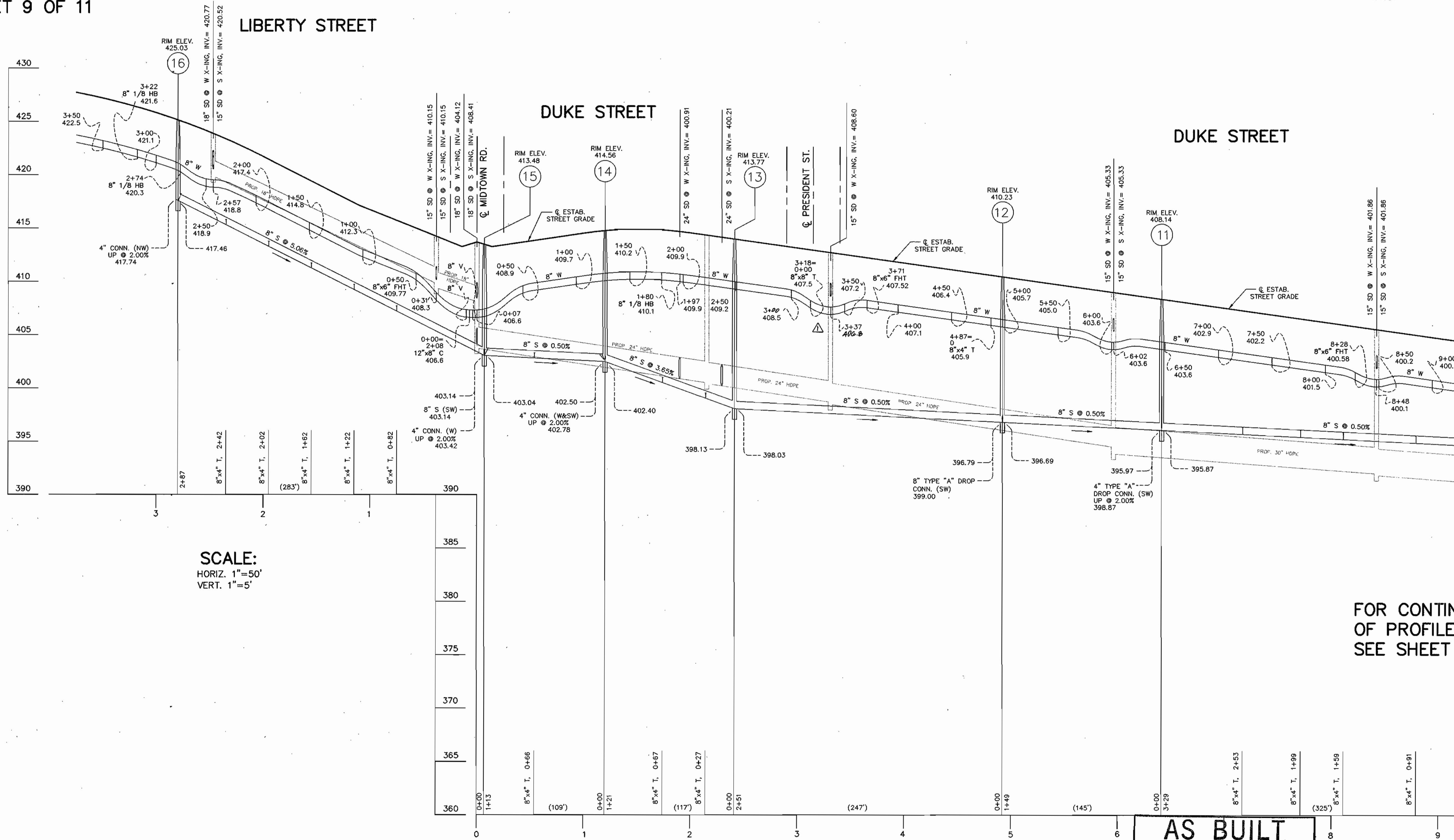
GLW FILE #02001

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>Robert B...</i> 5-5-03 CHIEF, BUREAU OF UTILITIES DATE</p>	<p>DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND</p> <p><i>Alb...</i> 5/14/03 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE</p>	<p>GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BAL: 410-850-1820 DC/VA: 301-989-2524 FAX: 301-421-4186</p>		<p>DES: BB DRN: VAR CHK: CKG DATE: 4/03</p>	<p>REVISION</p>	<p>DATE</p>	<p>600' SCALE MAP NO. 46 BLOCK NO. 4</p>	<p>WATER and SEWER EXTENSION PLAN</p>	<p>MAPLE LAWN FARMS MIDTOWN DISTRICT - AREA 1 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127 COMMON OPEN AREAS 128 THRU 132 AND PARCELS 'A', 'B', & 'C' P. 121, P. 450 and P. 205 CONTRACT No. 24-4105-D 5TH ELECTION DISTRICT</p>	<p>SCALE AS SHOWN</p> <p>SHEET 6 OF 11</p>
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FOR CONTINUATION
OF PROFILE
SEE SHEET 9 OF 11

LIBERTY STREET



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

FOR CONTINUATION
OF PROFILE
SEE SHEET 8 OF 11

AS BUILT
DATE: JUNE 06, 2004

GLW FILE #02001

L:\CADD\DRAWINGS\02001\PHASE 2 (02001)\FINALS\02001WS.dwg 05/02/2003 10:56:04 AM EDT

DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert B. ...
5-5-03
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

...
CHIEF, DEVELOPMENT ENGINEERING DIVISION

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20886
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES: BB	DATE: 4/03
DRN: VAR	BY: NO
CHK: CKG	NO
REVISION	DATE
11/12/03	

WATER and SEWER EXTENSION PLAN

600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

SCALE AS SHOWN
SHEET 7 OF 11

FOR CONTINUATION
OF PROFILE
SEE SHEET 7 OF 11

LOT#	DIST.(FT)	TO
1	19.5	SMH-29
2	8.43	SHC
3	25	SMH-29
4	24	SHC
5	00	SDMH-10A
6	02.5	SHC
7	73	SDMH-10A
8	12	SHC
9	21.3	SMH-31
10	32	SHC
11	2	SHC
12	27	SDMH-10
13	33.07	SHC
14	24.33	SDMH-10
15	30	SHC
16	04	SDMH-19
17	34.5	SHC
18	50.5	SDMH-19
19	13.33	SHC
20	55.4	SDMH-19
21	12	SHC
22	15.5	SMH-32
23	11.33	SHC
24	25.5	SMH-32
25	19.50	SHC
26	20.50	SDMH-50
27	25.33	SHC
28	35.07	SDMH-50
29	23.08	SHC

LOT#	DIST.(FT)	TO
10	70	SDMH-50
11	18.5	SHC
12	92.5	F.H.
13	25	SHC
14	50.5	F.H.
15	21.5	SHC
16	41.5	SMH-37
17	32.0	SHC
18	38.0	SMH-37
19	24	SHC
20	50.3	F.H.
21	35	SHC
22	50.5	F.H.
23	15	SHC
24	54.83	F.H.
25	30	SHC
26	60.33	F.H.
27	12.07	SHC
28	55.4	SMH-30
29	35	SHC
30	44	SMH-30
31	20.2	SMH-35
32	15.03	SHC
33	110	F.H.
34	105.33	F.H.
35	35.5	SHC
36	44.07	F.H.

LOT#	DIST.(FT)	TO
35	47	F.H.
36	30.5	SHC
37	27	SMH-37
38	13.41	SHC
39	20	SMH-37
40	01.33	SHC
41	55	SMH-14
42	23	SHC
43	20	SMH-14
44	21.07	SHC
45	47.4	SMH-14
46	11.10	SHC
47	37	SMH-13
48	7.07	SHC
49	09.07	SMH-21
50	35.07	SHC
51	45.25	SMH-21
52	35.5	SHC
53	49.5	SMH-21
54	14.07	SHC
55	32	SMH-20
56	19.07	SHC
57	27.5	SMH-20
58	10	SHC
59	31.07	F.H.
60	79.25	SDMH-37
61	11	SMH-22
62	0	SHC
63	17	SMH-22
64	24	SHC
65	90.5	SMH-22
66	12.83	SHC
67	90.07	SMH-22
68	21.0	SHC
69	49.07	SMH-11
70	38.33	SHC

LOT#	DIST.(FT)	TO
54	53.5	SMH-11
55	32.33	SHC
56	14.07	SHC
57	90.5	SMH-19
58	0.5	SHC
59	83.33	SMH-19
60	2	SHC
61	52	SMH-19
62	9	SHC
63	47.75	SMH-19
64	4.50	SHC
65	30.50	SMH-19
66	14	SHC
67	41.75	SMH-19
68	15	SHC
69	12.10	SMH-19
70	7	SHC
71	19.5	SMH-19
72	35	SHC
73	45	SMH-19
74	7	SHC

LOT#	DIST.(FT)	TO
74	04.5	SMH-19
75	10	SHC
76	12	SMH-19
77	10	SHC
78	49.5	SMH-19
79	25	SHC
80	57.5	SMH-19
81	5.41	SHC
82	21	SMH-19
83	9	SHC
84	79	SMH-23
85	10.07	SHC
86	32	SMH-23
87	9.42	SHC
88	25.07	SMH-23
89	0.75	SHC
90	33.33	SMH-23
91	17.75	SHC
92	51	SMH-34
93	19	SHC
94	12	SMH-34
95	7	SHC
96	94.5	SMH-34
97	4	SHC
98	102	SMH-34
99	4.33	SHC
100	10.83	F.H.
101	20.33	SHC
102	109.91	F.H.
103	15	SHC
104	07.10	F.H.
105	9.07	SHC
106	01.5	F.H.
107	3.07	SHC

LOT#	DIST.(FT)	TO
91	43.55	F.H.
92	11.07	SHC
93	42.03	F.H.
94	3.07	SHC
95	21.83	F.H.
96	9.33	SHC
97	23	F.H.
98	30.83	F.H.
99	8.33	SHC
100	00.33	F.H.
101	5.83	SHC
102	73.83	F.H.
103	15.02	SHC
104	125	SMH-34
105	11.07	SHC
106	19.33	SMH-34
107	9	SHC
108	0	SMH-34
109	3	SHC
110	18	SMH-34
111	3.07	SHC
112	51	SMH-34
113	8.33	SHC
114	49.33	SDMH-21
115	15.07	SHC
116	55	SDMH-21
117	0.30	SHC
118	105	SDMH-21
119	112.07	SDMH-21
120	7	SHC
121	53.55	SDMH-20
122	47	SDMH-20
123	18.50	SDMH-20
124	5	SHC
125	40.5	SDMH-12
126	7.07	SHC

LOT#	DIST.(FT)	TO
111	49	SDMH-12
112	7.75	SHC
113	80	SDMH-12
114	5.75	SHC
115	7.5	SDMH-12
116	124.5	SDMH-12
117	4.75	SHC
118	131.83	F.H.
119	12	SHC
120	80	F.H.
121	10.33	SHC
122	79	F.H.
123	4.83	SHC
124	53.07	F.H.
125	7.33	SHC
126	49.25	F.H.
127	8.33	SHC
128	40	F.H.
129	4	SHC
130	30.5	SHC
131	21	SHC
132	82	SMH-10
133	20	SHC
134	75	SMH-10
135	23	SMH-9
136	11.07	SHC
137	53	SMH-8
138	55	SMH-8
139	12.5	SHC
140	38	SMH-17
141	35.10	SHC
142	40	SMH-17
143	4.33	SHC
144	15	SMH-10
145	41.5	SMH-10
146	5	SHC
147	30.33	SDMH-35
148	3.10	SHC
149	51.83	SDMH-35
150	19	SHC

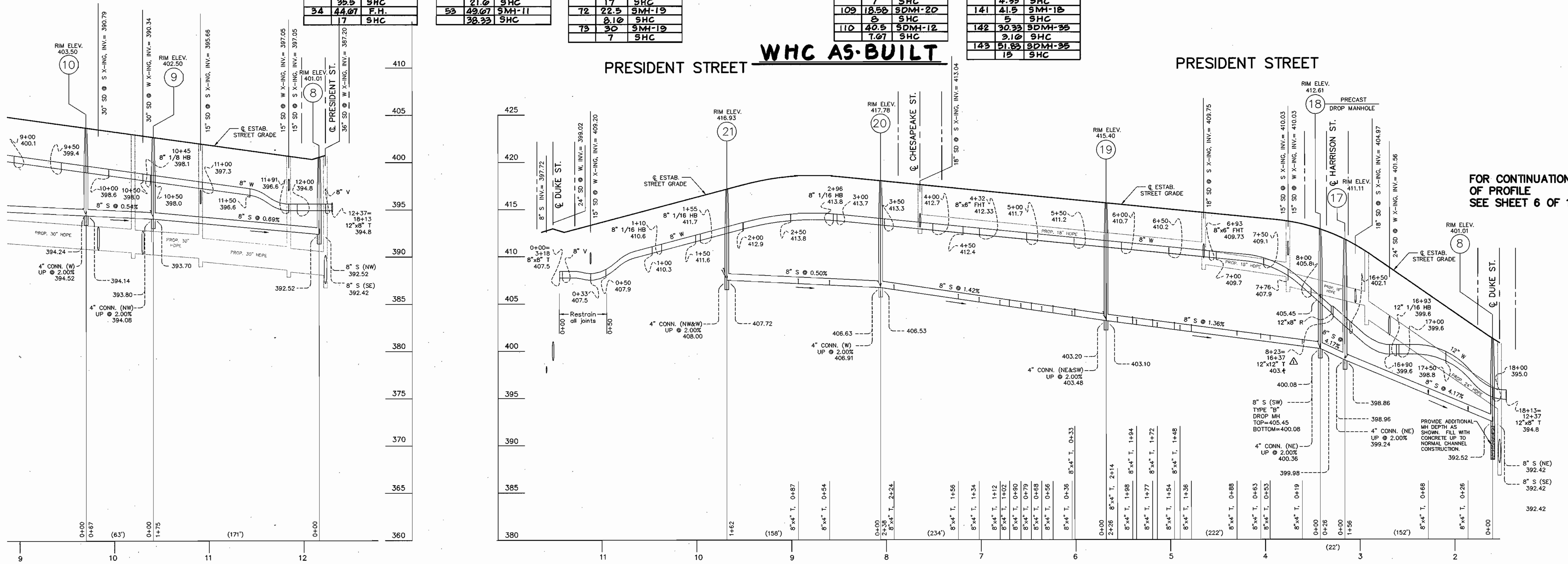
LOT#	DIST.(FT)	TO
144	84	SDMH-30
145	3.5	SHC
146	02.33	SMH-10
147	11.25	F.H.
148	71.4	SMH-32
149	55	SHC
150	80.33	SDMH-19
151	8	SHC
152	87.33	SDMH-10
153	5	SHC
154	47.5	SMH-31
155	9	SHC
156	04	SDMH-10A
157	9	SHC
158	19.33	SHC
159	21.50	F.H.
160	9	SHC
161	49.25	LOT#115SHC
162	8	SHC
163	48.5	LOT#115SHC
164	12.33	SHC
165	52	LOT#115SHC
166	103.42	SDMH-12
167	11.42	SHC
168	54.91	SDMH-12
169	48	SDMH-12
170	7.07	SHC

LOT#	DIST.(FT)	TO
160	20	SDMH-12
161	10.83	SHC
162	27.10	SDMH-12
163	25.50	SHC
164	47	SMH-20
165	7.42	SHC
166	05.4	SMH-27
167	6.91	SHC
168	30.5	SMH-27
169	3.07	SHC
170	32.33	SMH-27
171	12.10	SHC
172	46.75	F.H.
173	22.33	SHC
174	40.5	F.H.
175	24.5	SHC
176	82.07	SDMH-7
177	5.07	SHC
178	12.07	SHC
179	4.9	SDMH-7
180	5.5	SHC
181	38	SDMH-7
182	9.07	SHC

DUKE STREET

PRESIDENT STREET **WHC AS-BUILT**

PRESIDENT STREET



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

AS BUILT
DATE: JUNE 06, 2004

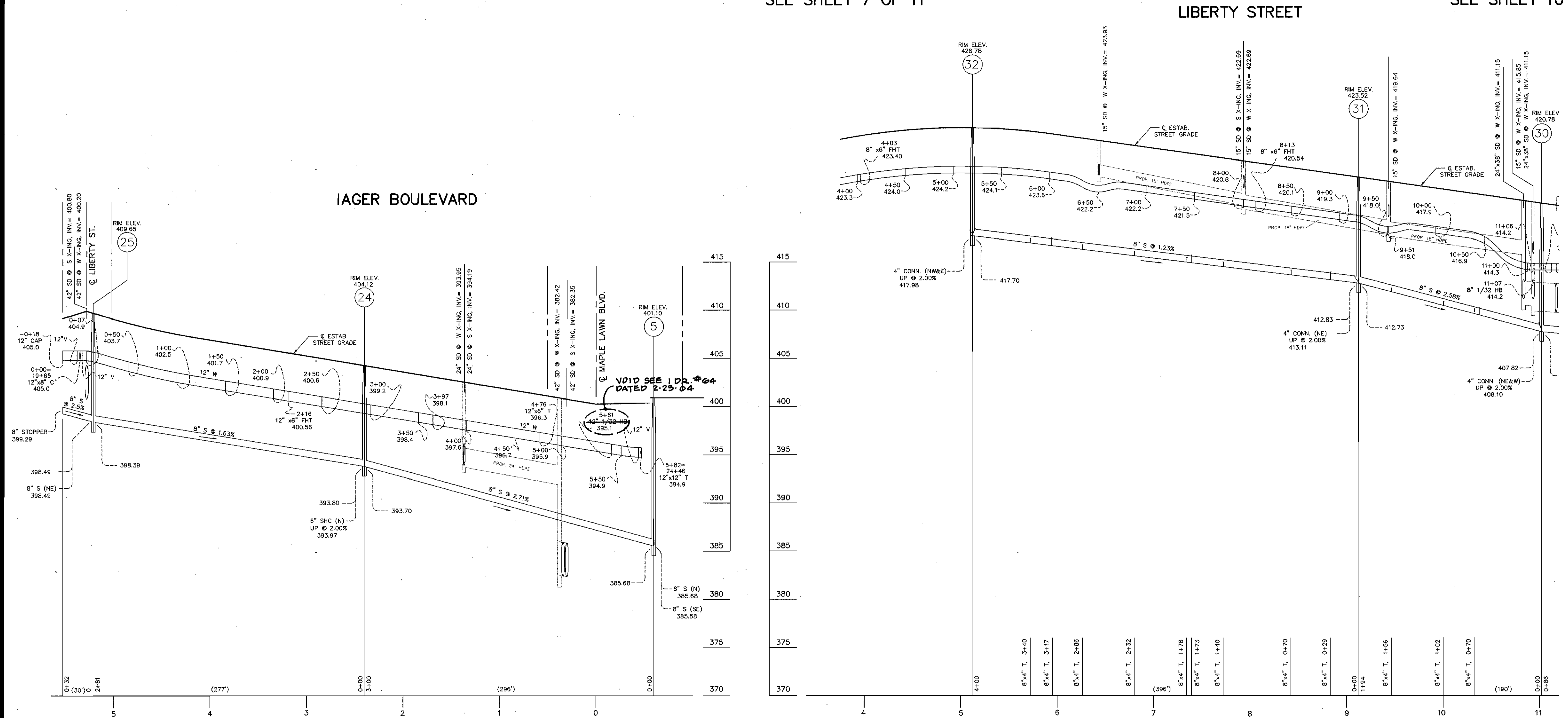
FOR CONTINUATION
OF PROFILE
SEE SHEET 6 OF 11

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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>R. H. Bennis</i> 5-5-03 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>M. P. ...</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BIRTONSVILLE OFFICE PARK BIRTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186		DES: BB DRN: VAR CHK: CKG DATE: 4/03	11/12/03 600' SCALE MAP NO. 46 BLOCK NO. 4	WATER and SEWER EXTENSION PLAN	MAPLE LAWN FARMS MIDTOWN DISTRICT - AREA 1 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127 COMMON OPEN AREAS 128 THRU 132 AND PARCELS 'A', 'B', & 'C' P. 121, P. 450 and P. 205 CONTRACT No. 24-4105-D 5TH ELECTION DISTRICT	SCALE AS SHOWN SHEET 8 OF 11
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FOR CONTINUATION
OF PROFILE
SEE SHEET 7 OF 11

FOR CONTINUATION
OF PROFILE
SEE SHEET 10 OF 11



AS BUILT
DATE: JUNE 06, 2004

GLW FILE #02001

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DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert Berman 5-5-03
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
Andrew Dammann 5/14/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLWGUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTOWNSVILLE OFFICE PARK
BURTOWNSVILLE, MARYLAND 20886
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES: BB			
DRN: VAR			
CHK: CKG			
DATE: 4/03	BY	NO	REVISION

WATER and SEWER EXTENSION
PLAN
600' SCALE MAP NO. 46 BLOCK NO. 4

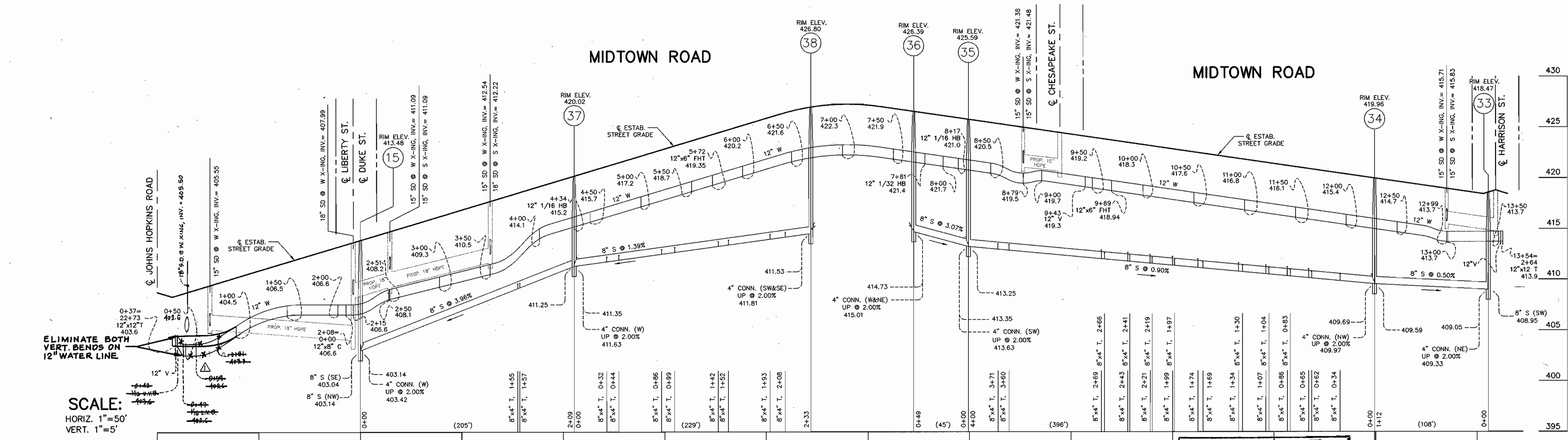
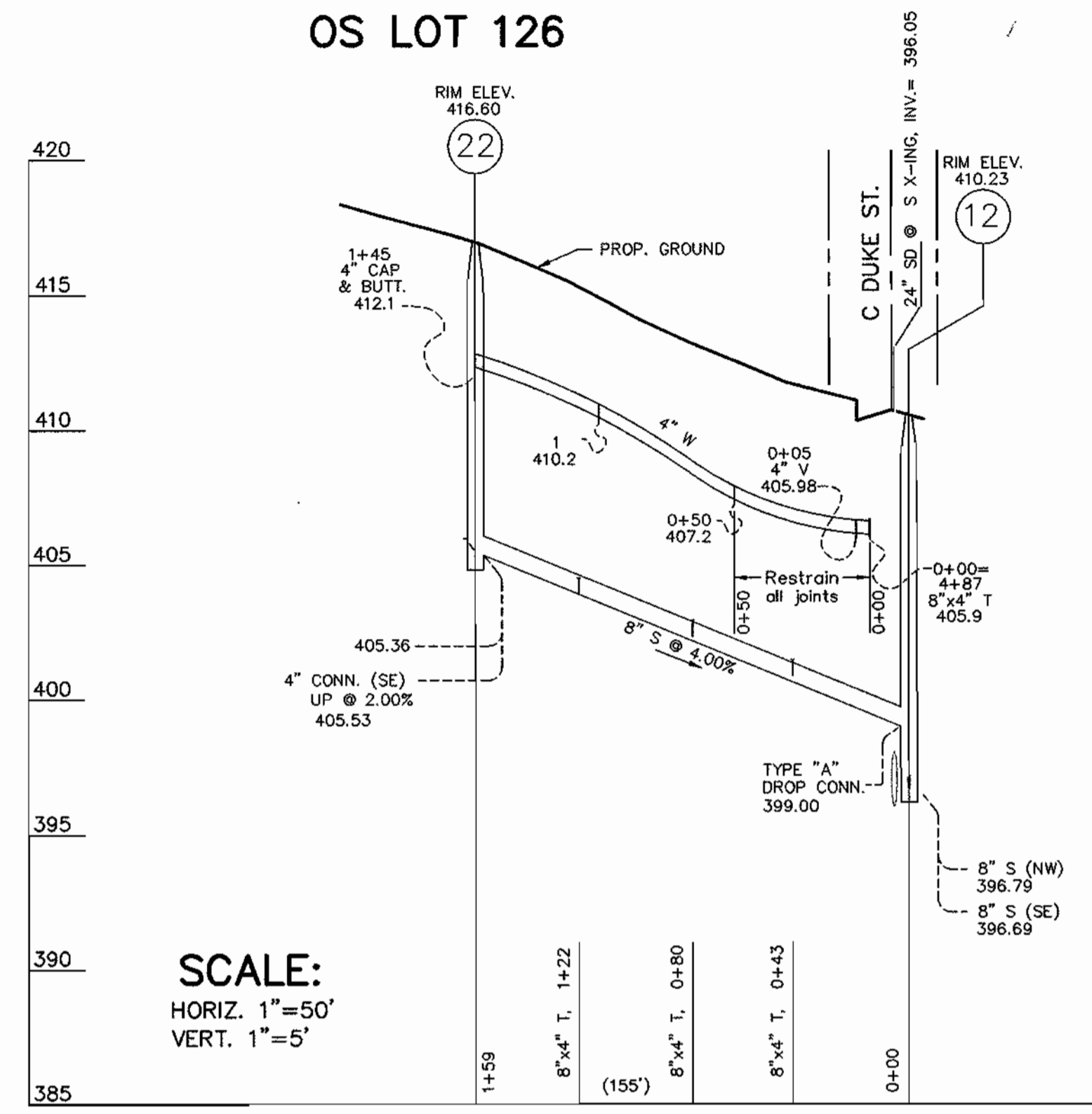
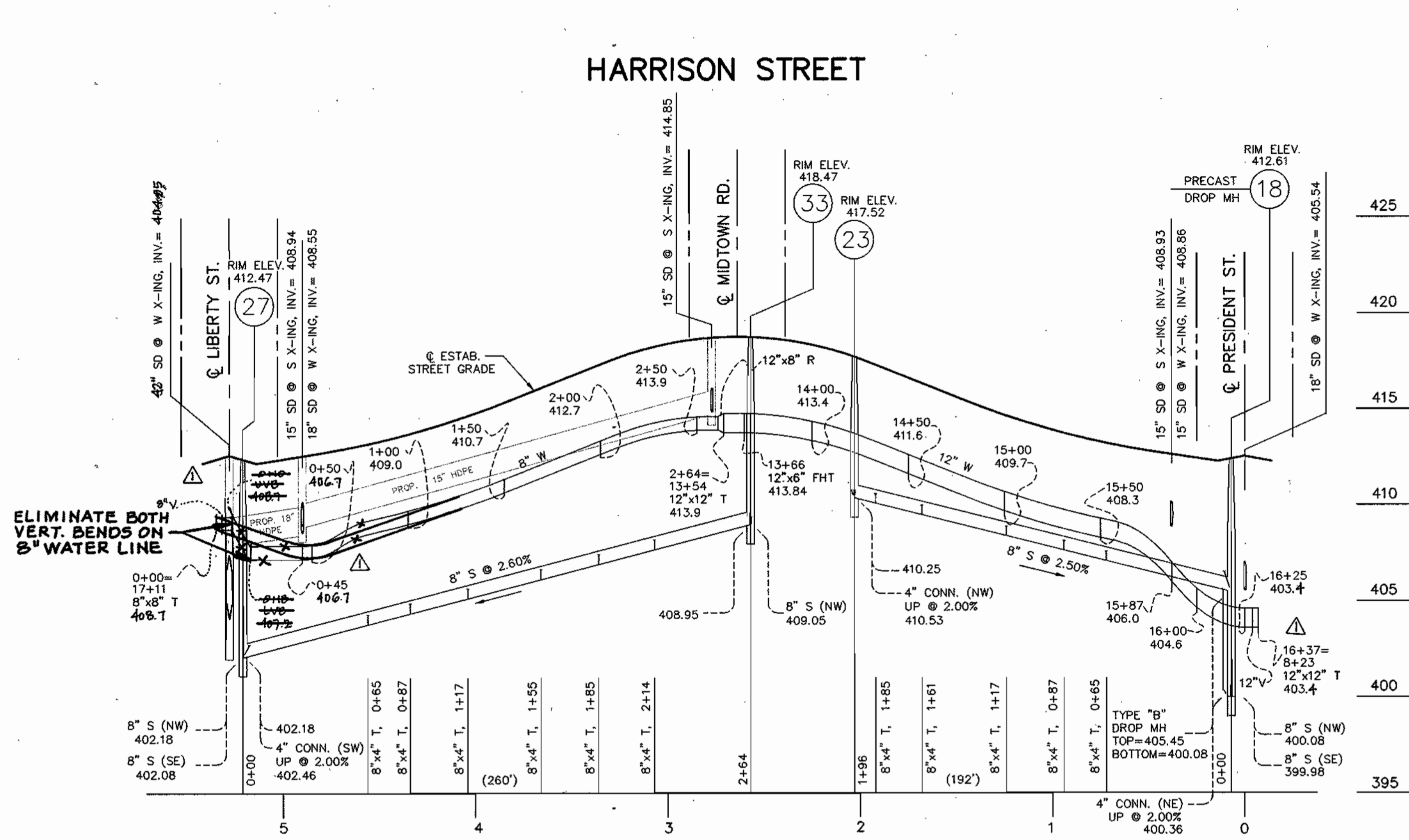
MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

SCALE
AS
SHOWN
SHEET
9 OF 11

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LOT#	DIST.(FT)	TO	LOT#	DIST.(FT)	TO	LOT#	DIST.(FT)	TO	LOT#	DIST.(FT)	TO	LOT#	DIST.(FT)	TO	LOT#	DIST.(FT)	TO	LOT#	DIST.(FT)	TO	LOT#	DIST.(FT)	TO	LOT#	DIST.(FT)	TO	LOT#	DIST.(FT)	TO	LOT#	DIST.(FT)	TO	LOT#	DIST.(FT)	TO	LOT#	DIST.(FT)	TO	LOT#	DIST.(FT)	TO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
1	15	SMH-29	10	44.41	SDMH-19	19	39	F.H.	28	69	SMH-30	37	35.5B	SDMH-52	46	39	SDMH-37	55	34	SMH-19	64	32	LOT#92	73	70	SMH-24	82	32	LOT#92	91	32	LOT#92	100	32	LOT#92	109	32	LOT#92	118	32	LOT#92	127	32	LOT#92	136	32	LOT#92	145	32	LOT#92	154	32	LOT#92	163	32	LOT#92	172	32	LOT#92	181	32	LOT#92	190	32	LOT#92	199	32	LOT#92	208	32	LOT#92	217	32	LOT#92	226	32	LOT#92	235	32	LOT#92	244	32	LOT#92	253	32	LOT#92	262	32	LOT#92	271	32	LOT#92	280	32	LOT#92	289	32	LOT#92	298	32	LOT#92	307	32	LOT#92	316	32	LOT#92	325	32	LOT#92	334	32	LOT#92	343	32	LOT#92	352	32	LOT#92	361	32	LOT#92	370	32	LOT#92	379	32	LOT#92	388	32	LOT#92	397	32	LOT#92	406	32	LOT#92	415	32	LOT#92	424	32	LOT#92	433	32	LOT#92	442	32	LOT#92	451	32	LOT#92	460	32	LOT#92	469	32	LOT#92	478	32	LOT#92	487	32	LOT#92	496	32	LOT#92	505	32	LOT#92	514	32	LOT#92	523	32	LOT#92	532	32	LOT#92	541	32	LOT#92	550	32	LOT#92	559	32	LOT#92	568	32	LOT#92	577	32	LOT#92	586	32	LOT#92	595	32	LOT#92	604	32	LOT#92	613	32	LOT#92	622	32	LOT#92	631	32	LOT#92	640	32	LOT#92	649	32	LOT#92	658	32	LOT#92	667	32	LOT#92	676	32	LOT#92	685	32	LOT#92	694	32	LOT#92	703	32	LOT#92	712	32	LOT#92	721	32	LOT#92	730	32	LOT#92	739	32	LOT#92	748	32	LOT#92	757	32	LOT#92	766	32	LOT#92	775	32	LOT#92	784	32	LOT#92	793	32	LOT#92	802	32	LOT#92	811	32	LOT#92	820	32	LOT#92	829	32	LOT#92	838	32	LOT#92	847	32	LOT#92	856	32	LOT#92	865	32	LOT#92	874	32	LOT#92	883	32	LOT#92	892	32	LOT#92	901	32	LOT#92	910	32	LOT#92	919	32	LOT#92	928	32	LOT#92	937	32	LOT#92	946	32	LOT#92	955	32	LOT#92	964	32	LOT#92	973	32	LOT#92	982	32	LOT#92	991	32	LOT#92	1000	32	LOT#92	1009	32	LOT#92	1018	32	LOT#92	1027	32	LOT#92	1036	32	LOT#92	1045	32	LOT#92	1054	32	LOT#92	1063	32	LOT#92	1072	32	LOT#92	1081	32	LOT#92	1090	32	LOT#92	1099	32	LOT#92	1108	32	LOT#92	1117	32	LOT#92	1126	32	LOT#92	1135	32	LOT#92	1144	32	LOT#92	1153	32	LOT#92	1162	32	LOT#92	1171	32	LOT#92	1180	32	LOT#92	1189	32	LOT#92	1198	32	LOT#92	1207	32	LOT#92	1216	32	LOT#92	1225	32	LOT#92	1234	32	LOT#92	1243	32	LOT#92	1252	32	LOT#92	1261	32	LOT#92	1270	32	LOT#92	1279	32	LOT#92	1288	32	LOT#92	1297	32	LOT#92	1306	32	LOT#92	1315	32	LOT#92	1324	32	LOT#92	1333	32	LOT#92	1342	32	LOT#92	1351	32	LOT#92	1360	32	LOT#92	1369	32	LOT#92	1378	32	LOT#92	1387	32	LOT#92	1396	32	LOT#92	1405	32	LOT#92	1414	32	LOT#92	1423	32	LOT#92	1432	32	LOT#92	1441	32	LOT#92	1450	32	LOT#92	1459	32	LOT#92	1468	32	LOT#92	1477	32	LOT#92	1486	32	LOT#92	1495	32	LOT#92	1504	32	LOT#92	1513	32	LOT#92	1522	32	LOT#92	1531	32	LOT#92	1540	32	LOT#92	1549	32	LOT#92	1558	32	LOT#92	1567	32	LOT#92	1576	32	LOT#92	1585	32	LOT#92	1594	32	LOT#92	1603	32	LOT#92	1612	32	LOT#92	1621	32	LOT#92	1630	32	LOT#92	1639	32	LOT#92	1648	32	LOT#92	1657	32	LOT#92	1666	32	LOT#92	1675	32	LOT#92	1684	32	LOT#92	1693	32	LOT#92	1702	32	LOT#92	1711	32	LOT#92	1720	32	LOT#92	1729	32	LOT#92	1738	32	LOT#92	1747	32	LOT#92	1756	32	LOT#92	1765	32	LOT#92	1774	32	LOT#92	1783	32	LOT#92	1792	32	LOT#92	1801	32	LOT#92	1810	32	LOT#92	1819	32	LOT#92	1828	32	LOT#92	1837	32	LOT#92	1846	32	LOT#92	1855	32	LOT#92	1864	32	LOT#92	1873	32	LOT#92	1882	32	LOT#92	1891	32	LOT#92	1900	32	LOT#92	1909	32	LOT#92	1918	32	LOT#92	1927	32	LOT#92	1936	32	LOT#92	1945	32	LOT#92	1954	32	LOT#92	1963	32	LOT#92	1972	32	LOT#92	1981	32	LOT#92	1990	32	LOT#92	1999	32	LOT#92	2008	32	LOT#92	2017	32	LOT#92	2026	32	LOT#92	2035	32	LOT#92	2044	32	LOT#92	2053	32	LOT#92	2062	32	LOT#92	2071	32	LOT#92	2080	32	LOT#92	2089	32	LOT#92	2098	32	LOT#92	2107	32	LOT#92	2116	32	LOT#92	2125	32	LOT#92	2134	32	LOT#92	2143	32	LOT#92	2152	32	LOT#92	2161	32	LOT#92	2170	32	LOT#92	2179	32	LOT#92	2188	32	LOT#92	2197	32	LOT#92	2206	32	LOT#92	2215	32	LOT#92	2224	32	LOT#92	2233	32	LOT#92	2242	32	LOT#92	2251	32	LOT#92	2260	32	LOT#92	2269	32	LOT#92	2278	32	LOT#92	2287	32	LOT#92	2296	32	LOT#92	2305	32	LOT#92	2314	32	LOT#92	2323	32	LOT#92	2332	32	LOT#92	2341	32	LOT#92	2350	32	LOT#92	2359	32	LOT#92	2368	32	LOT#92	2377	32	LOT#92	2386	32	LOT#92	2395	32	LOT#92	2404	32	LOT#92	2413	32	LOT#92	2422	32	LOT#92	2431	32	LOT#92	2440	32	LOT#92	2449	32	LOT#92	2458	32	LOT#92	2467	32	LOT#92	2476	32	LOT#92	2485	32	LOT#92	2494	32	LOT#92	2503	32	LOT#92	2512	32	LOT#92	2521	32	LOT#92	2530	32	LOT#92	2539	32	LOT#92	2548	32	LOT#92	2557	32	LOT#92	2566	32	LOT#92	2575	32	LOT#92	2584	32	LOT#92	2593	32	LOT#92	2602	32	LOT#92	2611	32	LOT#92	2620	32	LOT#92	2629	32	LOT#92	2638	32	LOT#92	2647	32	LOT#92	2656	32	LOT#92	2665	32	LOT#92	2674	32	LOT#92	2683	32	LOT#92	2692	32	LOT#92	2701	32	LOT#92	2710	32	LOT#92	2719	32	LOT#92	2728	32	LOT#92	2737	32	LOT#92	2746	32	LOT#92	2755	32	LOT#92	2764	32	LOT#92	2773	32	LOT#92	2782	32	LOT#92	2791	32	LOT#92	2800	32	LOT#92	2809	32	LOT#92	2818	32	LOT#92	2827	32	LOT#92	2836	32	LOT#92	2845	32	LOT#92	2854	32	LOT#92	2863	32	LOT#92	2872	32	LOT#92	2881	32	LOT#92	2890	32	LOT#92	2899	32	LOT#92	2908	32	LOT#92	2917	32	LOT#92	2926	32	LOT#92	2935	32	LOT#92	2944	32	LOT#92	2953	32	LOT#92	2962	32	LOT#92	2971	32	LOT#92	2980	32	LOT#92	2989	32	LOT#92	2998	32	LOT#92	3007	32	LOT#92	3016	32	LOT#92	3025	32	LOT#92	3034	32	LOT#92	3043	32	LOT#92	3052	32	LOT#92	3061	32	LOT#92	3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AS BUILT
DATE: JUNE 06, 2004

GLW FILE #02001

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
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DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTNSVILLE OFFICE PARK
BURTNSVILLE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4188



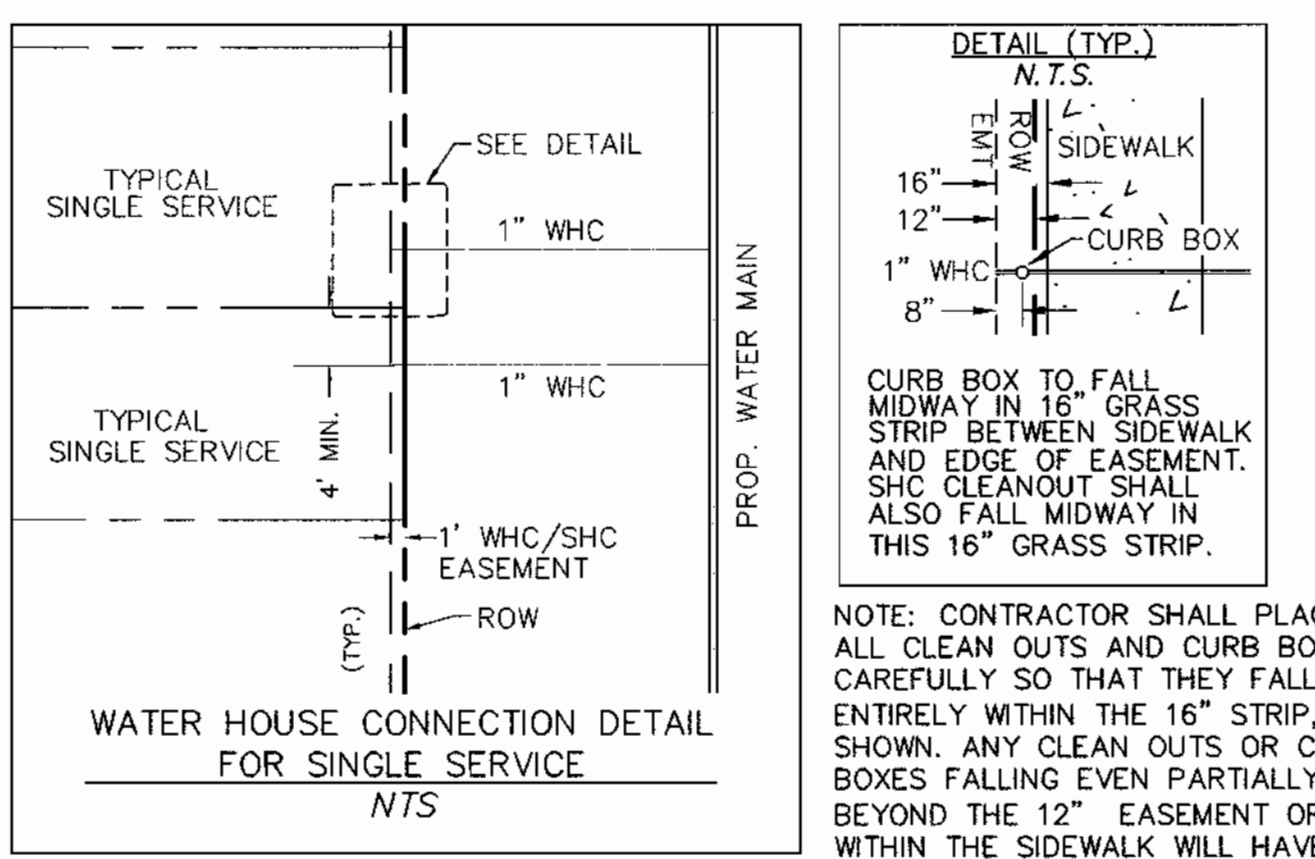
DES: BB	JAW	Revised water main invert to avoid conflict with storm drain.	4/12/03
DRN: VAR			
CHK: CKG			
DATE: 4/03			
BY	NO	REVISION	DATE

WATER and SEWER EXTENSION PLAN
600' SCALE MAP NO. 46 BLOCK NO. 4

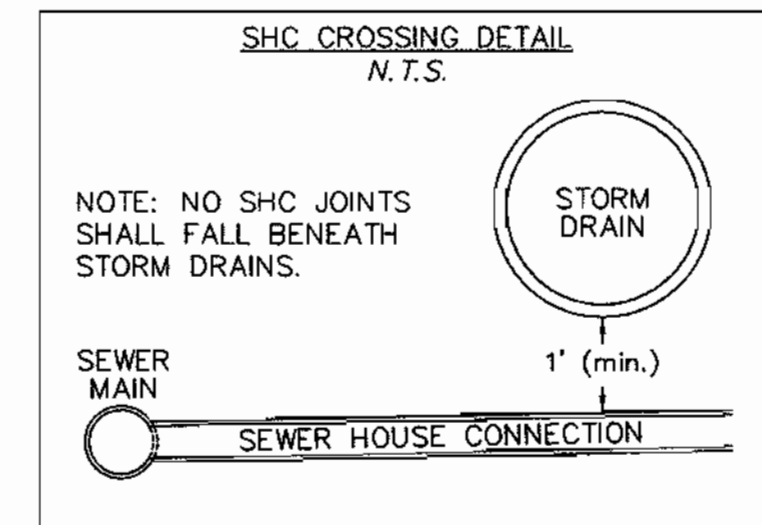
MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT NO. 24-4105-D
5TH ELECTION DISTRICT

SCALE AS SHOWN
SHEET 11 OF 11

All buildable lots shown hereon shall have a one (1) foot wide public easement adjacent to the Public Road Right of Way, for the purpose of sidewalk maintenance, water house connections and sewer house connections.

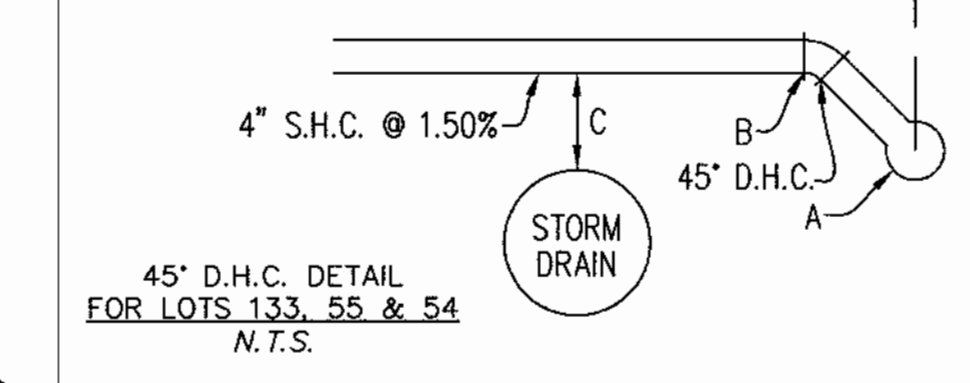


NOTE: CONTRACTOR SHALL PLACE ALL CLEAN OUTS AND CURB BOXES CAREFULLY SO THAT THEY FALL ENTIRELY WITHIN THE 16" STRIP, AS SHOWN. ANY CLEAN OUTS OR CURB BOXES FALLING EVEN PARTIALLY BEYOND THE 12" EASEMENT OR WITHIN THE SIDEWALK WILL HAVE TO BE ADJUSTED.



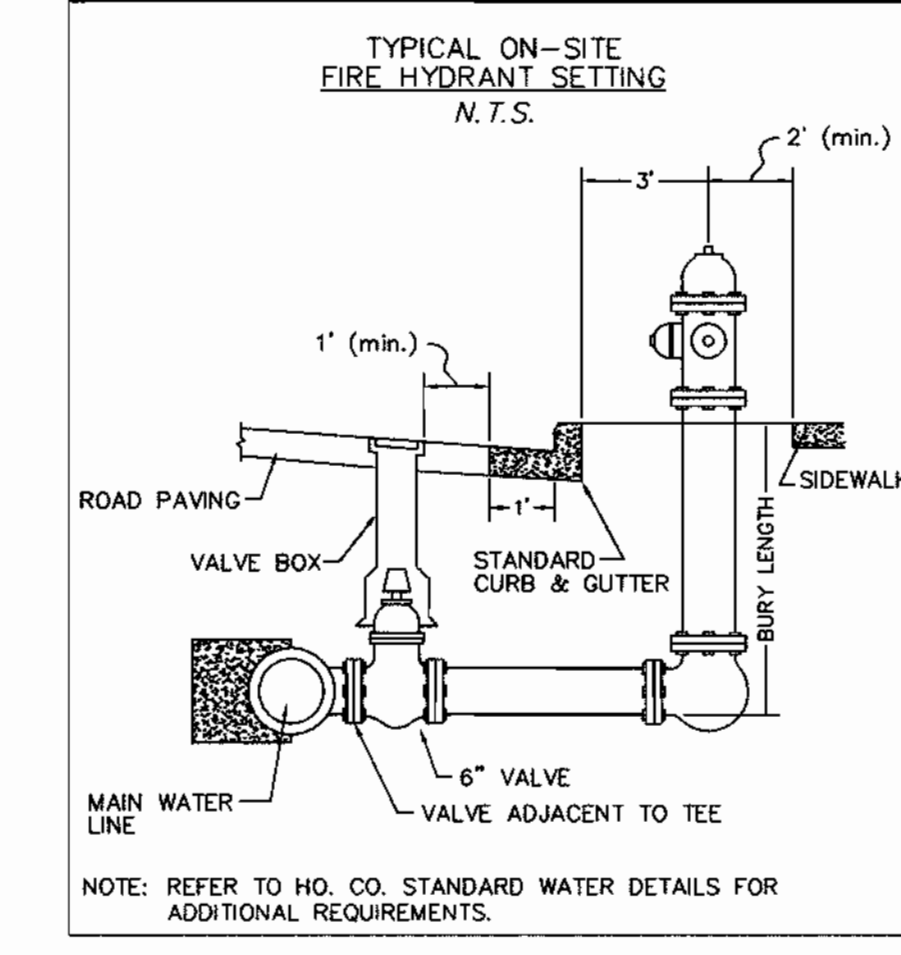
ALL SHC'S SHOWN SERVING NUMBERED LOTS ARE 4" DIAMETER.

LOT #	A	B	C
133	395.03	396.30	1.2'
55	395.23	396.50	1.0'
54	395.51	396.78	1.0'

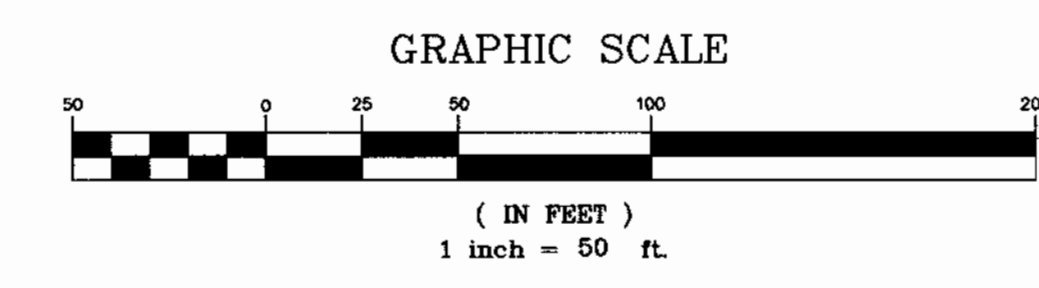


SEWER HOUSE CONNECTIONS
MINIMUM CELLAR ELEVATIONS and INVERT ELEVATION @ R

LOT	MINIMUM CELLAR ELEVATION	ELEVATION @ PROP. LINE	LOT	MINIMUM CELLAR ELEVATION	ELEVATION @ PROP. LINE	LOT	MINIMUM CELLAR ELEVATION	ELEVATION @ PROP. LINE
1	411.21	407.47	54	400.44	397.21	107	408.03	404.89
2	411.34	407.63	55	400.16	396.93	108	407.46	404.32
3	412.61	408.58	56	405.89	402.71	109	406.46	402.78
4	414.50	410.87	57	406.19	402.94	110	407.48	404.31
5	415.92	412.27	58	406.47	403.25	111	407.68	404.52
6	417.04	413.43	59	406.78	403.54	112	407.88	404.72
7	417.79	414.14	60	407.32	404.08	113	408.07	404.91
8	418.57	415.00	61	407.58	404.40	114	408.32	405.12
9	419.11	415.46	62	407.87	404.73	115	408.55	405.32
10	419.78	416.13	63	408.20	405.04	116	408.83	405.59
11	420.44	416.79	64	408.56	405.39	117	409.97	405.81
12	421.08	417.45	65	409.18	405.94	118	409.14	406.00
13	421.76	418.28	66	408.71	405.55	119	409.36	406.19
14	419.15	415.79	67	408.42	405.24	120	408.62	406.41
15	417.16	413.80	68	408.12	404.93	133	399.90	396.74
16	415.13	411.73	69	407.81	404.62	134	399.17	395.54
17	413.07	409.71	70	407.37	404.16	135	398.91	395.22
18	411.09	407.69	71	406.90	403.71	136	397.90	394.36
19	407.20	403.74	72	407.02	403.80	137	397.15	394.03
20	413.13	409.55	73	406.40	403.22	138	398.86	395.74
21	415.85	412.24	74	406.08	402.92	139	403.17	399.84
22	416.32	412.67	75	405.79	402.59	140	404.12	400.96
23	417.08	413.45	76	404.52	401.13	141	404.37	401.12
24	417.84	414.19	77	410.67	407.51	142	404.75	401.58
25	418.57	414.94	78	411.20	408.04	143	404.97	401.72
26	419.11	415.60	79	412.13	408.81	144	405.31	402.06
27	419.27	415.61	80	413.11	409.91	145	FUTURE	422.11
28	417.99	414.23	81	413.67	410.51	146	FUTURE	418.78
29	417.19	413.73	82	414.08	410.87	147	FUTURE	417.50
30	417.17	413.54	83	414.11	410.61	148	FUTURE	415.71
31	419.03	415.35	84	413.92	410.76	149	FUTURE	413.94
32	418.81	415.22	85	414.13	410.95	150	FUTURE	410.26
33	418.22	414.57	86	414.34	411.14	151	411.90	408.64
34	417.38	413.75	87	414.57	411.37	171	406.70	403.54
35	416.68	413.03	88	414.97	411.77	172	406.38	403.22
36	414.31	410.68	89	415.15	411.97	173	406.26	403.10
37	413.37	409.39	90	415.35	412.17	174	404.95	401.83
38	406.64	403.30	91	415.57	412.39	175	403.21	400.09
39	408.62	405.10	92	415.79	412.59	176	402.99	399.87
40	406.38	403.10	93	416.18	412.91	177	402.68	399.54
41	404.34	400.93	94	415.87	412.68	178	402.76	399.64
42	401.98	398.64	95	415.66	412.47	179	402.87	399.75
43	412.50	408.74	96	415.46	412.27	180	409.37	405.57
44	412.06	408.56	97	415.29	412.00	181	409.04	405.24
45	411.42	407.83	98	414.98	411.69	182	408.57	404.77
46	411.23	407.63	99	414.62	411.44	183	408.27	404.47
47	411.05	407.29	100	414.45	411.25	184	407.82	404.02
48	410.53	407.27	101	414.28	411.07	185	407.09	403.29
49	409.07	405.77	102	414.14	410.73	186	406.63	402.83
50	407.86	404.28	103	411.49	408.19	187	406.41	402.61
51	405.97	402.55	104	410.60	407.44	188	406.17	402.37
52	404.40	401.02	105	409.98	406.66	189	405.94	402.14
53	400.54	396.85	106	408.99	405.67			



AS BUILT
DATE: JUNE 09, 2004

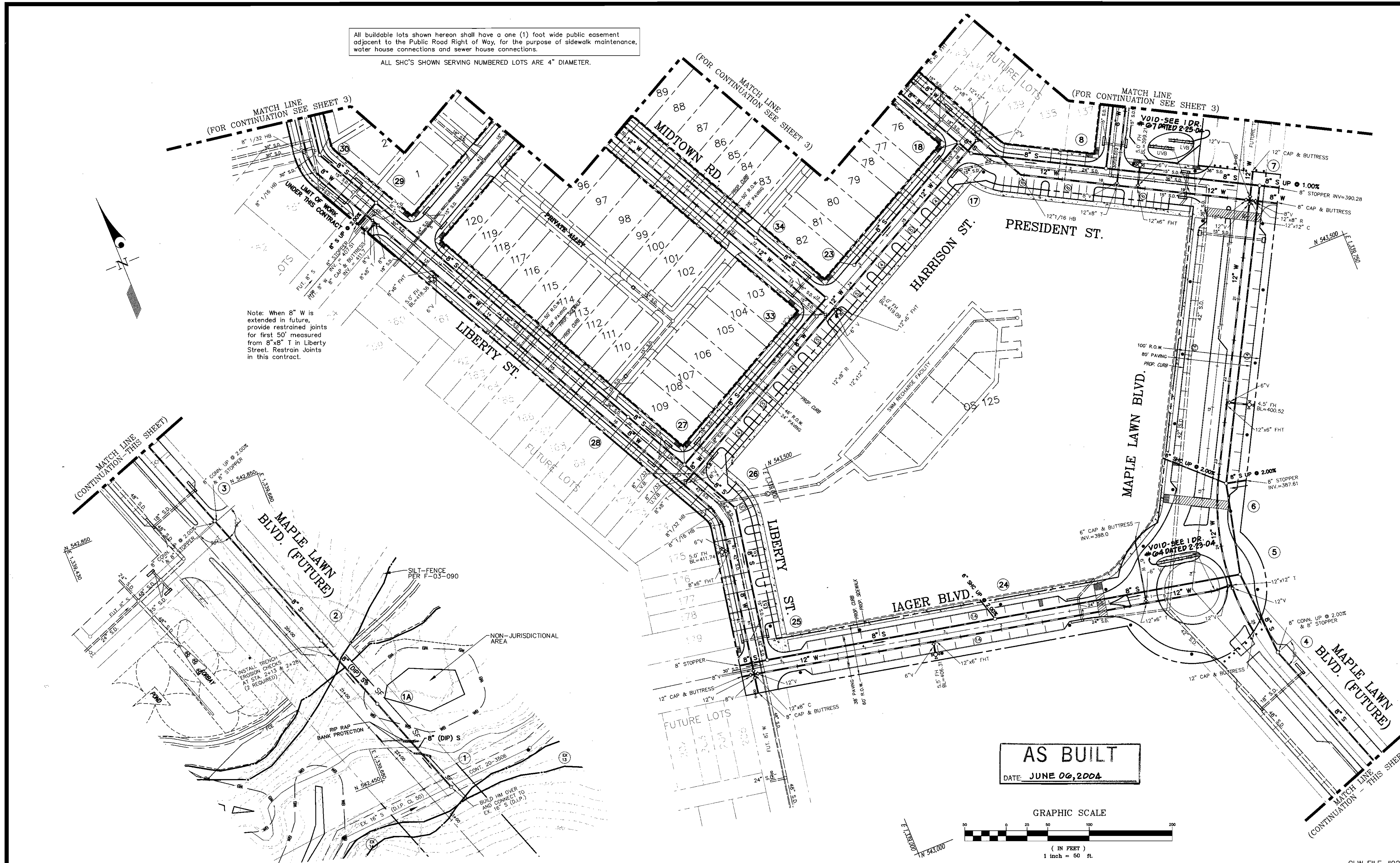


THIS SHEET SUPERCEDES THE SHEET SIGNED ON 5/14/03.

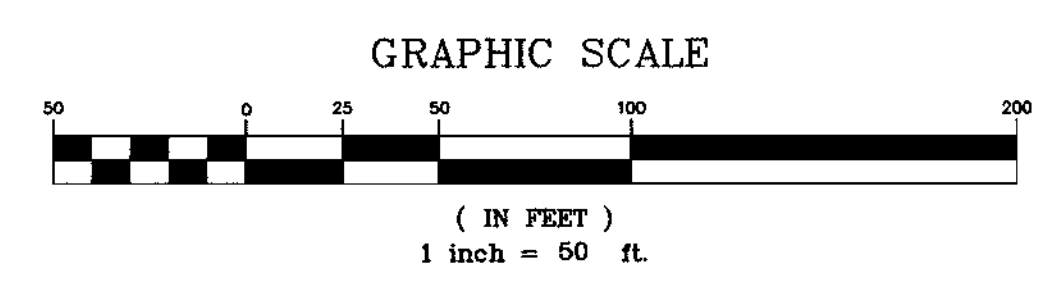
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND R. B. BARNES CHIEF, BUREAU OF UTILITIES DATE: 1-27-04	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND [Signature] CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 1/20/04	GLW GUTSCHICK LITTLE & WEBER, PA. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTINSVILLE OFFICE PARK BURTINSVILLE, MARYLAND 20868 TEL: 301-421-4024 FAX: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186	DES: BB DRN: VAR CHK: CKG DATE: 4/03	BY: NO REVISION: [] DATE: []	WATER and SEWER EXTENSION 600' SCALE MAP NO. 46 BLOCK NO. 4	MAPLE LAWN FARMS MIDTOWN DISTRICT - AREA 1 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127 COMMON OPEN AREAS 128 THRU 132 AND PARCELS 'A', 'B', & 'C' P. 121, P. 450 and P. 205 CONTRACT No. 24-4105-D 5TH ELECTION DISTRICT	SCALE 1"=50' SHEET 3 OF 11
			GLW FILE #02001				

All buildable lots shown hereon shall have a one (1) foot wide public easement adjacent to the Public Road Right of Way, for the purpose of sidewalk maintenance, water house connections and sewer house connections.
 ALL SHC'S SHOWN SERVING NUMBERED LOTS ARE 4" DIAMETER.

Note: When 8" W is extended in future, provide restrained joints for first 50' measured from 8"x8" T in Liberty Street. Restrain joints in this contract.



AS BUILT
 DATE: JUNE 06, 2004

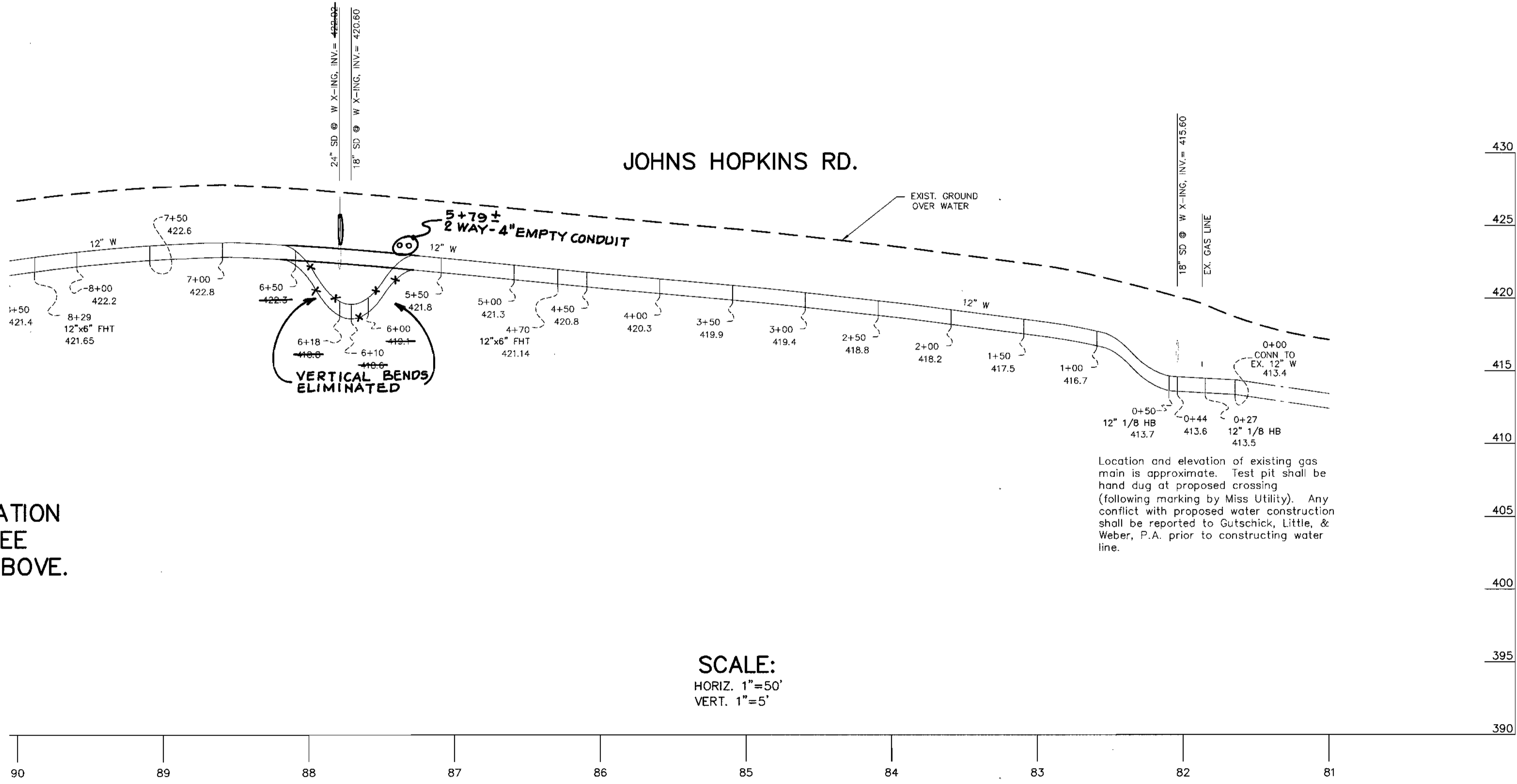
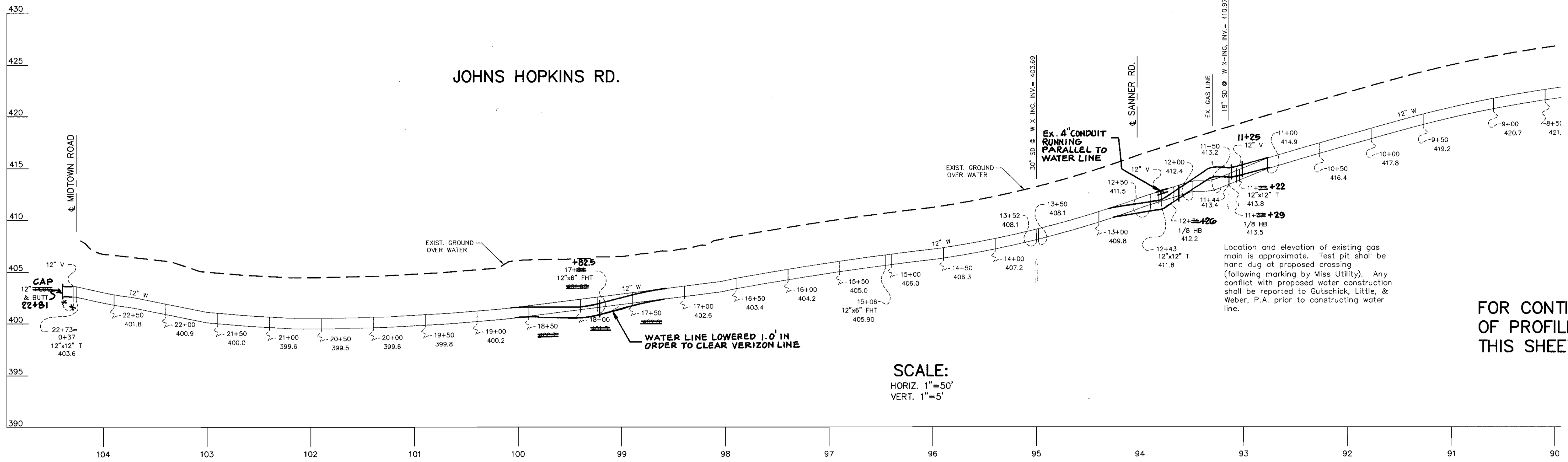


THIS SHEET SUPERCEDES THE SHEET SIGNED ON 5/14/03.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert M. Bainger</i> 1-27-04 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>Mr. Deacon</i> 1/30/04 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	GLW GUTSCHICK LITTLE & WEBER, PA. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONVILLE OFFICE PARK BURTONVILLE, MARYLAND 20886 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186		DES: BB DRN: VAR CHK: CKG DATE: 4/03 BY NO REVISION DATE	WATER and SEWER EXTENSION PLAN 600' SCALE MAP NO. 46 BLOCK NO. 4	MAPLE LAWN FARMS MIDTOWN DISTRICT - AREA 1 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127 COMMON OPEN AREAS 128 THRU 132 AND PARCELS 'A', 'B', & 'C' P. 121, P. 450 and P. 205 CONTRACT No. 24-4105-D 5TH ELECTION DISTRICT	SCALE 1"=50' SHEET 4 OF 11
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GLW FILE #02001



AS BUILT
DATE: JUNE 06, 2004

GLW FILE #02001

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT ENGINEERING DIVISION

GLWGUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES: BB				
DRN: VAR				
CHK: CKG				
DATE: 4/03	BY	NO	REVISION	DATE

WATER and SEWER EXTENSION PLAN
600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

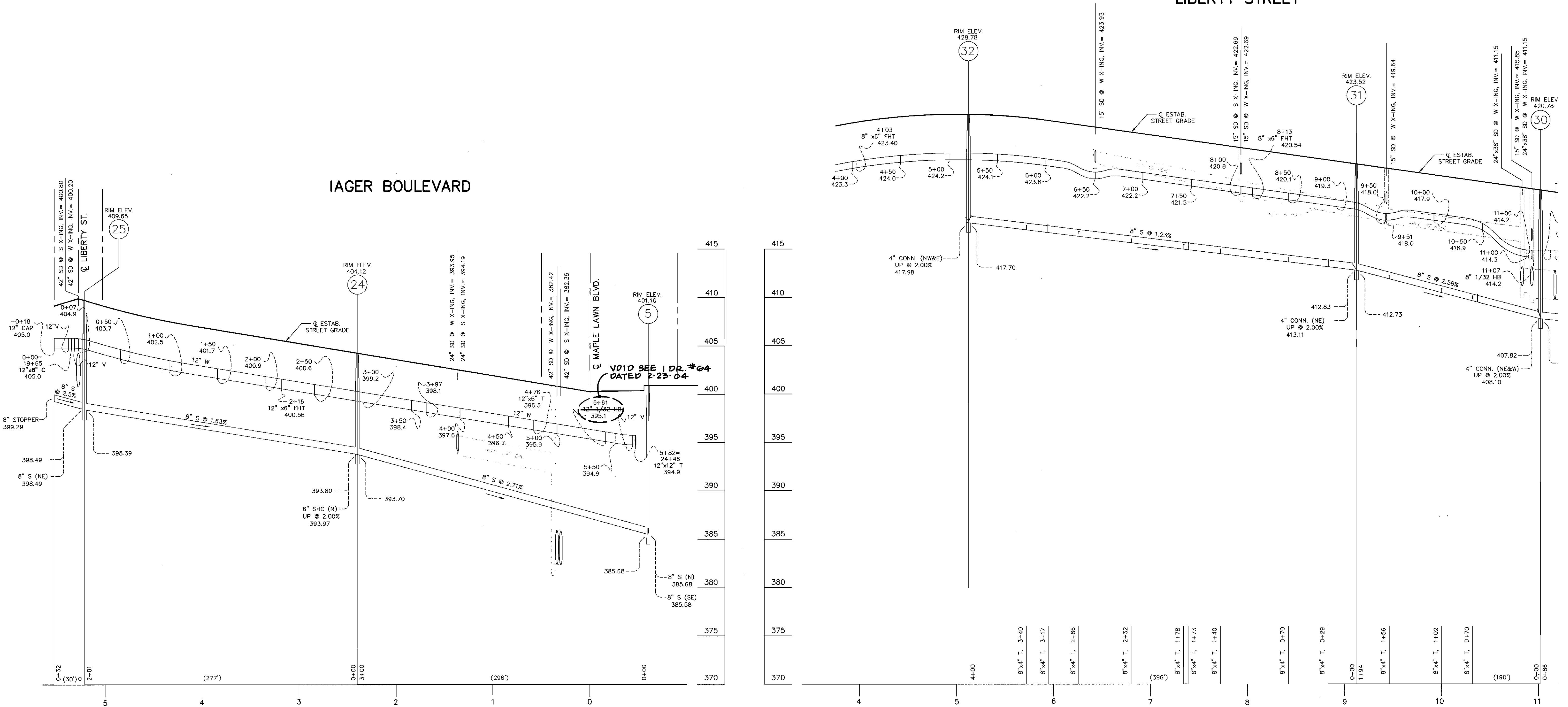
SCALE AS SHOWN
SHEET 5 OF 11

FOR CONTINUATION
OF PROFILE
SEE SHEET 7 OF 11

FOR CONTINUATION
OF PROFILE
SEE SHEET 10 OF 11

LIBERTY STREET

IAGER BOULEVARD



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

AS BUILT
DATE: JUNE 06, 2004

GLW FILE #02001

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert B. ...
5-5-03
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
...
5/14/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

GLWGUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3609 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20886
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES: BB			
DRN: VAR			
CHK: CKG			
DATE: 4/03	BY	NO	REVISION

WATER and SEWER EXTENSION PLAN
600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

SCALE AS SHOWN
SHEET 9 OF 11

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
4" WATER	145 LF	145 L.F.	D.I.P.	GRIFFIN PIPE
6" WATER (FH's)	273 LF	105 L.F.	D.I.P.	GRIFFIN PIPE
8" WATER	4397 LF	5979 L.F.	D.I.P.	GRIFFIN PIPE
12" WATER	5364 LF	4754 L.F.	D.I.P.	GRIFFIN PIPE
1" W/C	1004 LF	3012 L.F.	COPPER	---
1 1/2" W/C VOID	1532 LF	VOID		
12" 1/16 U.V.B.	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12" 1/16 L.V.B.	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12"x12" CROSS	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12"x8" CROSS	2 EA.	2 EA.	D.I.P.	HUGHES SUPPLY
12"x6" FHT	10 EA.	10 EA.	D.I.P.	HUGHES SUPPLY
12"x6" T	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12"x8" T	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12"x12" T	6 EA.	4 EA.	D.I.P.	HUGHES SUPPLY
12"x8" REDUCER	3 EA.	3 EA.	D.I.P.	HUGHES SUPPLY
12" VALVE	16 EA.	13 EA.	D.I.P.	HUGHES SUPPLY
12" CAP	3 EA.	2 EA.	D.I.P.	HUGHES SUPPLY
12" PLUG	3 EA.	3 EA.	D.I.P.	HUGHES SUPPLY
12" 1/32 U.V.B.	2 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12" 1/32 L.V.B.	2 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12" 1/8 HB	4 EA.	4 EA.	D.I.P.	HUGHES SUPPLY
12" 1/16 HB	3 EA.	2 EA.	D.I.P.	HUGHES SUPPLY
12" 1/32 HB	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
8" 1/8HB	4 EA.	3 EA.	D.I.P.	HUGHES SUPPLY
8" 1/16HB	5 EA.	6 EA.	D.I.P.	HUGHES SUPPLY
8" 1/32HB	2 EA.	2 EA.	D.I.P.	HUGHES SUPPLY
8"x8" T	3 EA.	3 EA.	D.I.P.	HUGHES SUPPLY
8"x6" T (FHT)	9 EA.	9 EA.	D.I.P.	HUGHES SUPPLY
8"x4" T	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
8" VALVE	11 EA.	10 EA.	D.I.P.	HUGHES SUPPLY
8" CAP	3 EA.	3 EA.	D.I.P.	HUGHES SUPPLY
6" VALVE (FHV)	19 EA.	19 EA.	D.I.P.	HUGHES SUPPLY
4" VALVE	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
4" CAP	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
8" 1/2 U.V.B.	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
8" 1/2 L.V.B.	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
FIRE HYDRANT - 4.5'	4 EA.	4 EA.	KENNEDY	HUGHES SUPPLY
FIRE HYDRANT - 5.0'	12 EA.	12 EA.	KENNEDY	HUGHES SUPPLY
FIRE HYDRANT - 5.5'	3 EA.	3 EA.	KENNEDY	HUGHES SUPPLY
6" VALVE	---	1 EA.	KENNEDY	HUGHES SUPPLY
8" PVC SEWER	7071 LF	7198 L.F.	SPR-35	HUGHES SUPPLY
8" D.I. SEWER	228 LF	230 L.F.	D.I.P.	GRIFFIN PIPE
6" PVC (SHC)	108 LF	80 L.F.	SDR-35	HUGHES SUPPLY
4" PVC (SHC)	3860 LF	3751 L.F.	SDR-35	HUGHES SUPPLY
MH's	39 EA.	39 EA.	PRECAST	CONTRACTORS PRECAST
DROP	2 EA.	2 EA.	PRECAST	CONTRACTORS PRECAST
8" STOPPER	7 EA.	7 EA.	---	EAST JORDAN IRON WORKS

NAME OF UTILITY CONTRACTOR: **GAINES & CO. UNDERGROUND UTILITIES**

SURVEY AND DRAFTING DIV. CHECKBOX: AS-BUILT DATE: **09-04**

CONTRACT No. 24-4105-D
 MAPLE LAWN FARMS
 LOTS 1 THRU 120
 OPEN SPACE LOTS 121 THRU 127
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

TYPE OF BUILDING	SINGLE FAMILY
NUMBER OF UNITS	120
NUMBER OF S.H.C.'s	144
NUMBER OF W.H.C.'s	144
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	LITTLE PATUXENT WWTP

GENERAL NOTES

- PART I
- Approximate locations 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, NAD 83/91.
 - All vertical controls are based on NAVD 88.
 - All pipe elevations shown are invert elevations unless otherwise noted on the plans.
 - Clear all utilities by a minimum of 12". Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. 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 the bracing of additional poles or damages shall be deducted from monies 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 Details 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 locations 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.
 - The contractor shall notify the following utility companies or agencies at least (5) working days before starting work shown on these plans:

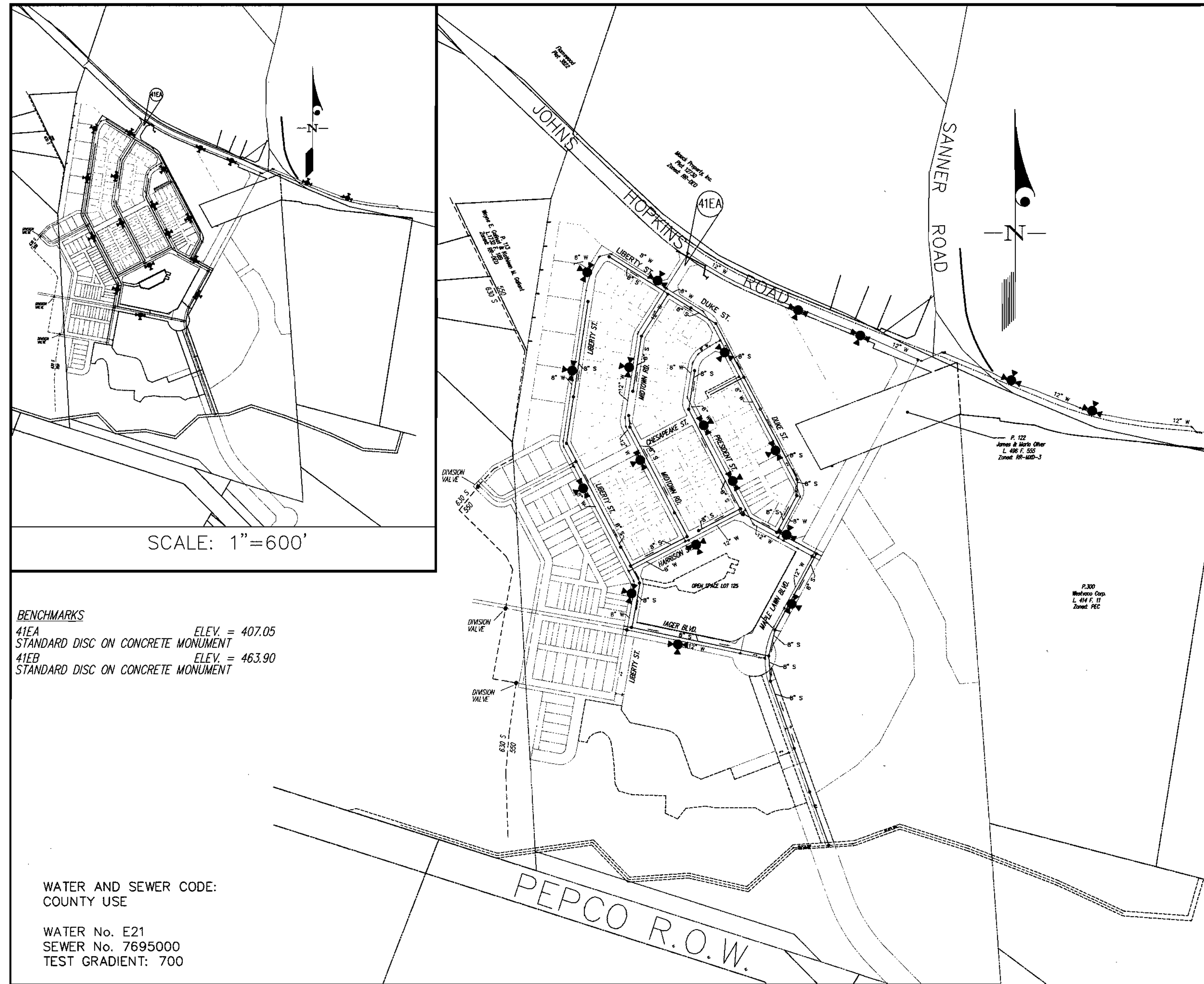
AT&T	1-800-252-1133
BGE (Contractor Services)	410-850-4620
BGE (Under Ground Damage Control)	410-787-9068
Bureau of Utilities	410-313-4900
Colonial Pipeline Co.	410-795-1390
Miss Utility	1-800-257-7777
State Highway Administration	410-531-5533
Verizon	1-800-743-0033/410-224-9210
 - Trees and shrubs are 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.
 - The 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.
 - The contractor shall notify the Bureau of Highways, Howard County, at 410-313-2450 at least five (5) working days before any open cutting or boring/jacking of any County road or boring/jacking operation on County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirement per Section 18.114(a) of the Howard County Code.
 - All buildable lots shown hereon shall have one (1) foot wide public easement adjacent to the Public Road Right of Way, for the purpose of sidewalk maintenance, water house connection and sewer house connection.

PART II - WATER

- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Tops of all water mains shall have a minimum of 3'-6" 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 installed 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.

PART III - SEWER

- 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.
- Force mains shall be D.I.P. only.
- Manholes shown with 12" and 16" walls are for brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and cover, Standard Detail G5.52. Where watertight manhole frames and covers are 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 the cellar cannot be served.



BENCHMARKS
 41EA STANDARD DISC ON CONCRETE MONUMENT ELEV. = 407.05
 41EB STANDARD DISC ON CONCRETE MONUMENT ELEV. = 463.90

WATER AND SEWER CODE:
 COUNTY USE

WATER No. E21
 SEWER No. 7695000
 TEST GRADIENT: 700

VICINITY MAP
 SCALE: 1"=300'

AS BUILT

DATE: JUNE 06, 2004

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications, with Road Drawings Plan F-03-090 ; Drawings 13 thru 21 for Sediment & Erosion Control, and with these plans.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

John R. Robinson 5/1/03
 SIGNATURE DATE

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

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

APPROVED: *John R. Robinson* 5/1/03
 HOWARD S.C.D. DATE



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

R. L. H. ... 5-5-03
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

... 5/1/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLWGUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 FAX: 301-421-4186



DES: BB	JAU	route quantities to reflect plan 4 profile changes.	11/12/03
DRN: VAR			
CHK: CKG			
DATE: 4/03	BY NO	REVISION	DATE

TITLE SHEET
 SCALE: AS SHOWN

600' SCALE MAP NO. 46 BLOCK NO. 4

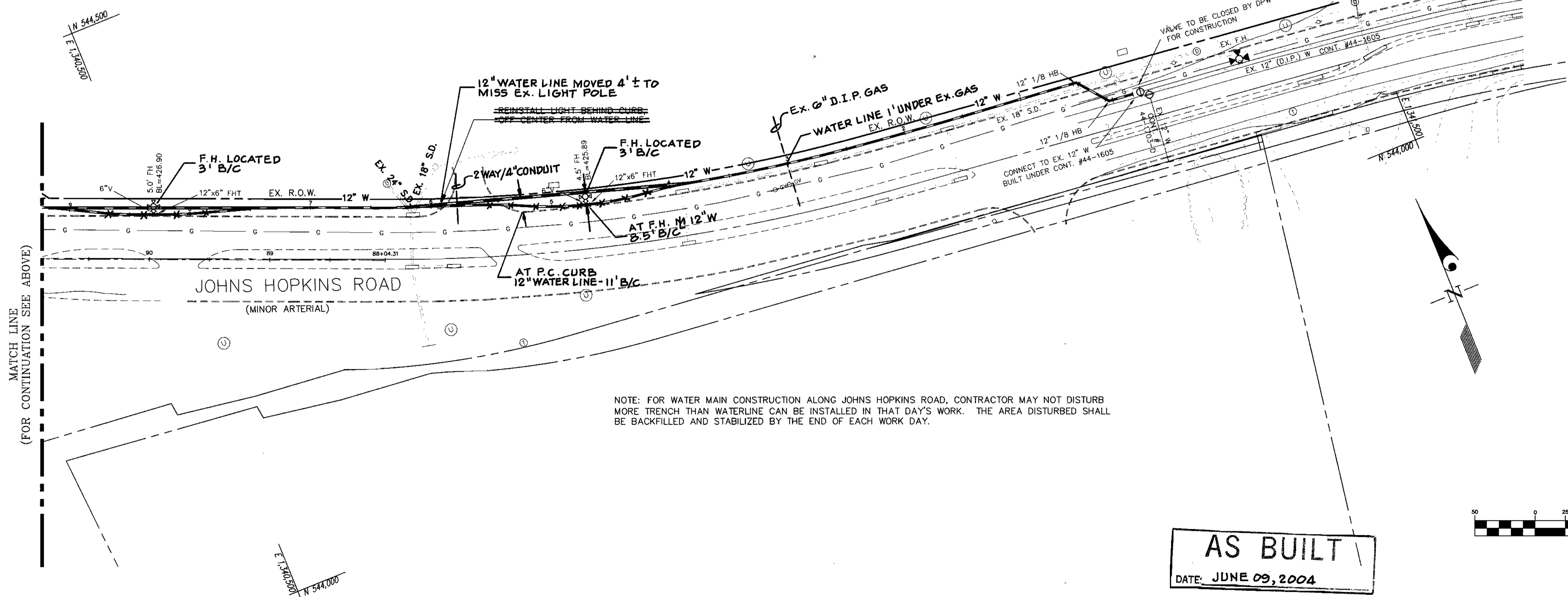
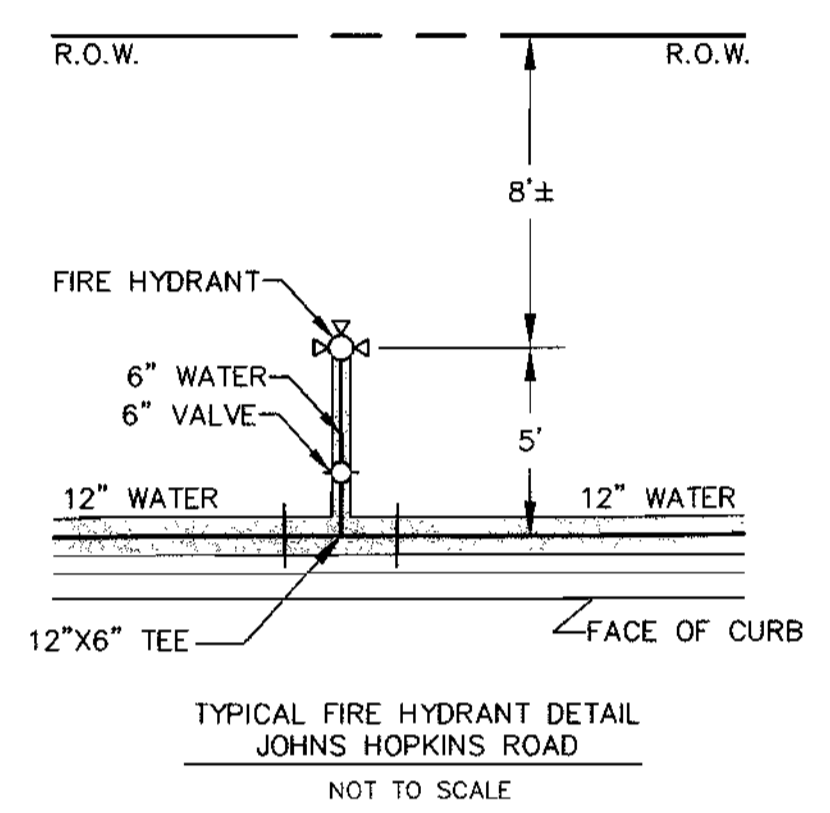
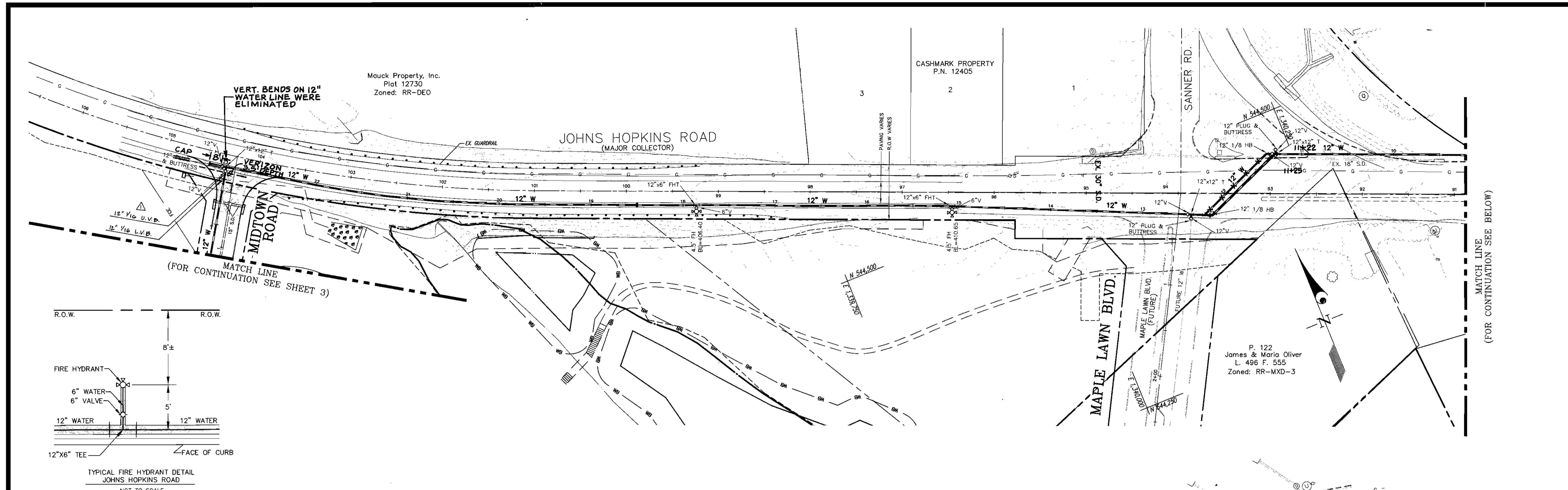
MAPLE LAWN FARMS
 MIDDOWN DISTRICT - AREA 1
 LOTS 1 THRU 120, OPENS SPACE LOTS 121 THRU 127
 COMMON OPEN AREAS 128 THRU 132 AND
 PARCELS 'A', 'B', & 'C'
 P. 121, P. 450 and P. 205
 CONTRACT No. 24-4105-D
 5TH ELECTION DISTRICT

SCALE AS SHOWN

SHEET 1 OF 11

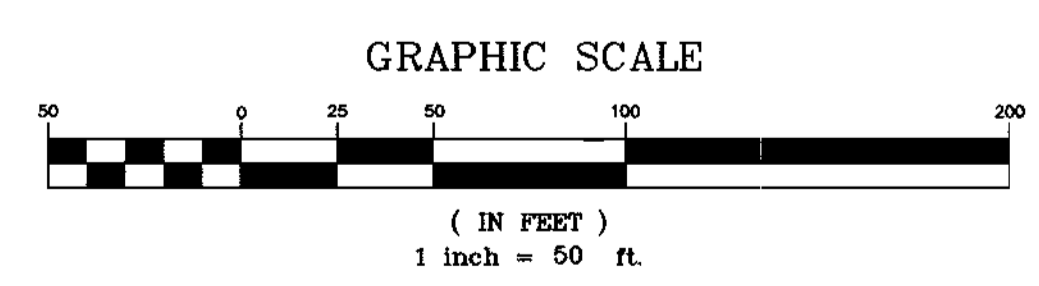
GLW FILE No. 02001

L:\CADD\DRAWINGS\02001\PHASE 2 (02001)\FINALS\02001WS.dwg 05/02/2003 10:56:04 AM EDT



NOTE: FOR WATER MAIN CONSTRUCTION ALONG JOHNS HOPKINS ROAD, CONTRACTOR MAY NOT DISTURB MORE TRENCH THAN WATERLINE CAN BE INSTALLED IN THAT DAY'S WORK. THE AREA DISTURBED SHALL BE BACKFILLED AND STABILIZED BY THE END OF EACH WORK DAY.

AS BUILT
DATE: JUNE 09, 2004



MATCH LINE (FOR CONTINUATION SEE BELOW)

MATCH LINE (FOR CONTINUATION SEE ABOVE)

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert Deinger 5-5-03
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
John Damman 5/14/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLWGUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20896
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES: BB	JAW	added upper & lower vert. bends to avoid conflict with storm drain.	11/12/03
DRN: VAR			
CHK: CKG			
DATE: 4/03	BY: NO	REVISION	DATE

WATER and SEWER EXTENSION PLAN
600' SCALE MAP NO. 46 BLOCK NO. 4

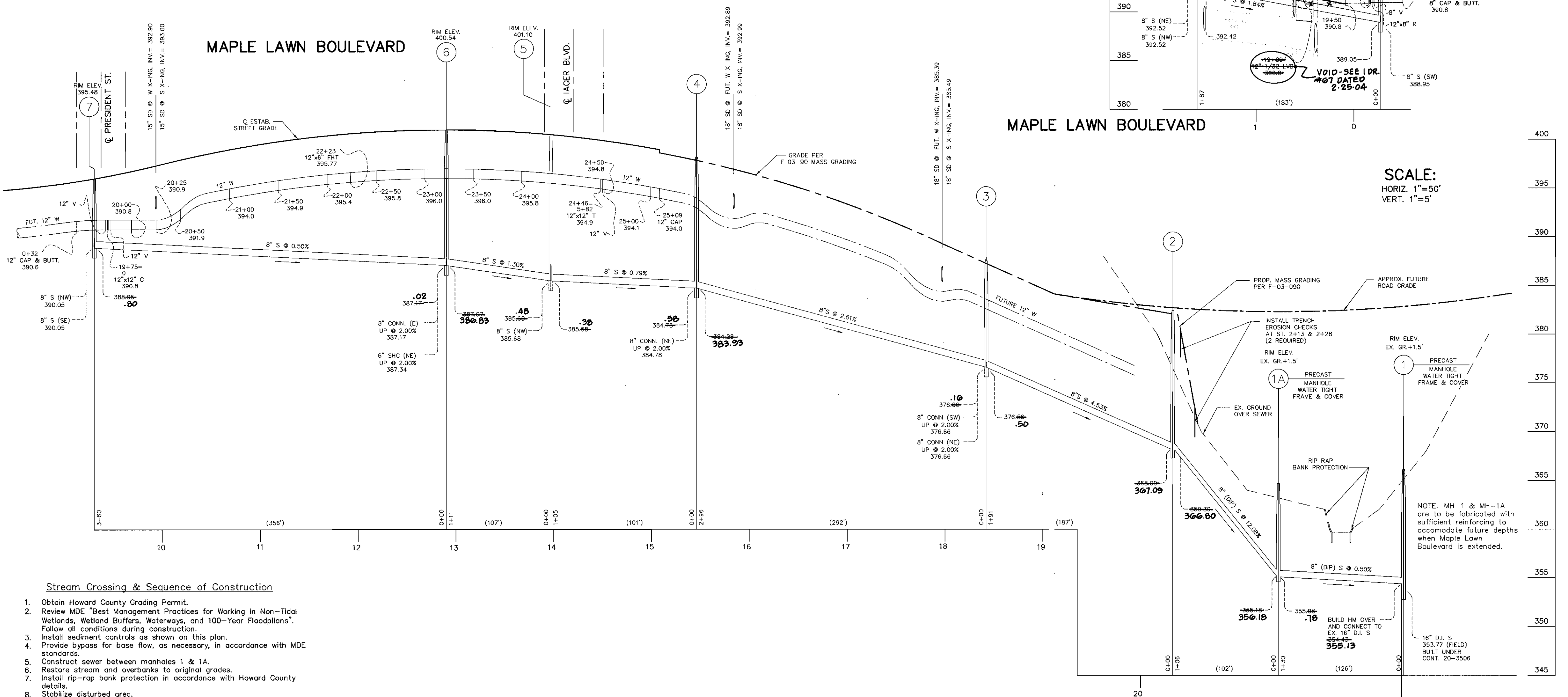
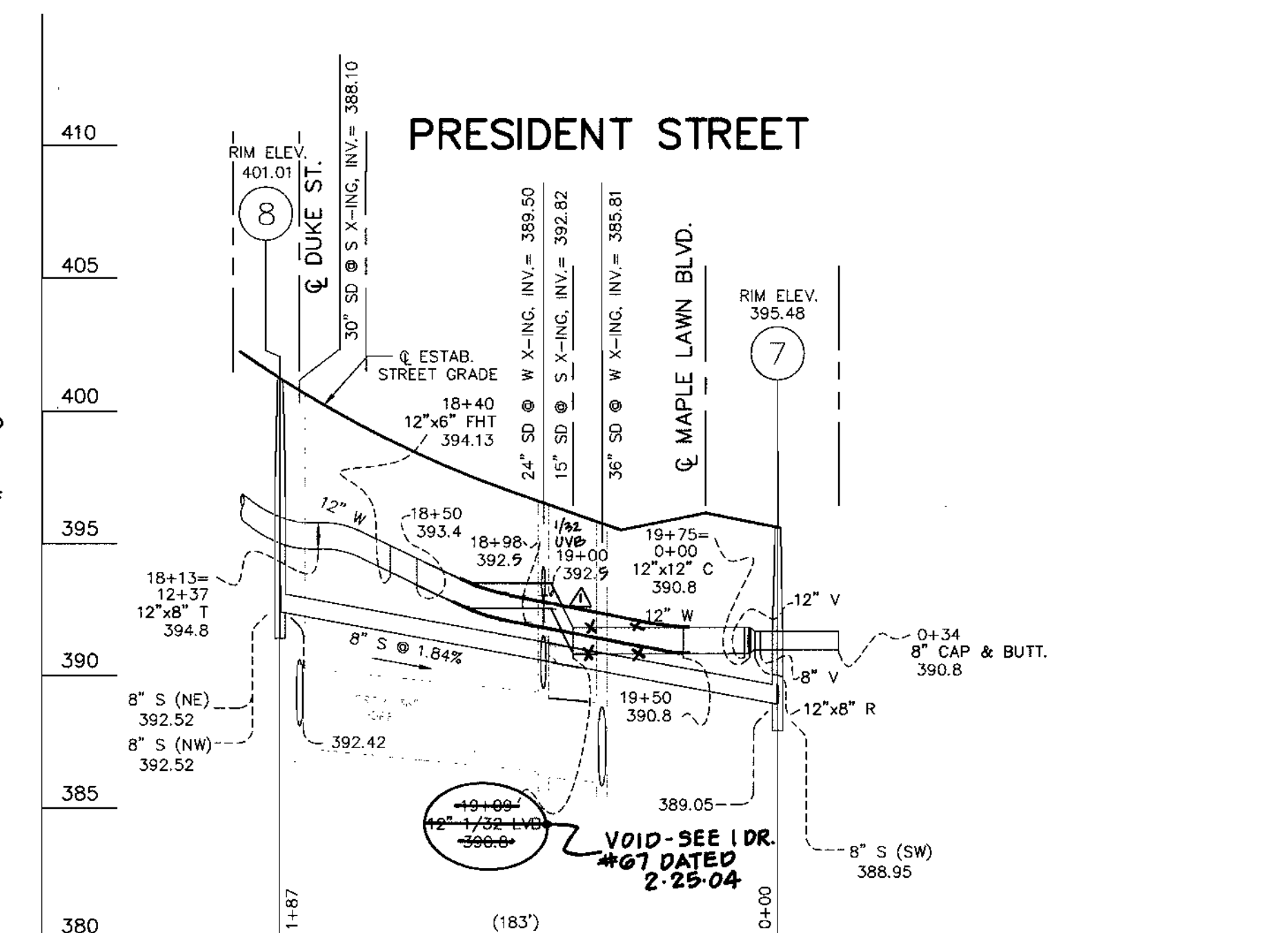
MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

SCALE AS SHOWN
SHEET 2 OF 11

GLW FILE #02001

BEST MANAGEMENT PRACTICES FOR WORKING IN
NONTIDAL WETLANDS, WETLAND BUFFERS,
WATERWAYS, AND 100-YEAR FLOODPLAINS

- No excess fill, construction material, or debris shall be stockpiled or stored in nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- Place materials in a location and manner that does not adversely impact surface or subsurface water flow into or out of nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- Do not use the excavated material as backfill if it contains waste metal products, unsightly debris, toxic material, or any other deleterious substance. If additional backfill is required, use clean material free of waste metal products, unsightly debris, toxic material, or any other deleterious substance.
- Place heavy equipment on mats or suitably operate the equipment to prevent damage to nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- Repair and maintain any serviceable structure or fill so there is no permanent loss of nontidal wetlands, nontidal wetland buffers, or waterways, or permanent modification of the 100-year floodplain in excess of that lost under the originally authorized structure or fill.
- Rectify any nontidal wetlands, wetland buffers, waterways, or 100-year floodplain temporarily impacted by any construction.
- All stabilization in the nontidal wetland and nontidal wetland buffer shall consist of the following species: Annual Ryegrass (*Lolium multiflorum*), Millet (*Setaria italica*), Barley (*Hordeum sp.*), Oats (*Uniola sp.*), and/or Rye (*Secale cereale*). These species will allow for the stabilization of the site while also allowing for the voluntary revegetation of natural wetland species. Other non-persistent vegetation may be acceptable, but must be approved by the Nontidal Wetlands and Waterways Division. Kentucky 31 fescue shall not be utilized in wetland or buffer areas. The area should be seeded and mulched to reduce erosion after construction activities have been completed.
- After installation has been completed, make post-construction grades and elevations the same as the original grades and elevations in temporarily impacted areas.
- To protect aquatic species, in-stream work is prohibited as determined by the classification of the stream:
 - Use 1 waters: In-stream work shall not be conducted during the period March 1 through June 15, inclusive, during any year.
- Stormwater runoff from impervious surfaces shall be controlled to prevent the washing of debris into the waterway.
- Culverts shall be constructed and any riprap placed so as not to obstruct the movement of aquatic species, unless the purpose of the activity is to impound water.



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

AS BUILT
DATE: JUNE 06, 2004

Stream Crossing & Sequence of Construction

- Obtain Howard County Grading Permit.
- Review MDE "Best Management Practices for Working in Non-Tidal Wetlands, Wetland Buffers, Waterways, and 100-Year Floodplains". Follow all conditions during construction.
- Install sediment controls as shown on this plan.
- Provide bypass for base flow, as necessary, in accordance with MDE standards.
- Construct sewer between manholes 1 & 1A.
- Restore stream and overbanks to original grades.
- Install rip-rap bank protection in accordance with Howard County details.
- Stabilize disturbed area.
- Continue with additional sewer construction above manhole 1A.

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DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert B. ... 5-5-02
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

... 5/14/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLWGUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BIRTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES: BB	JAL	1/12/03
DRN: VAR		
CHK: CKG		
DATE: 4/03	BY: NO	REVISION

WATER and SEWER EXTENSION
PLAN

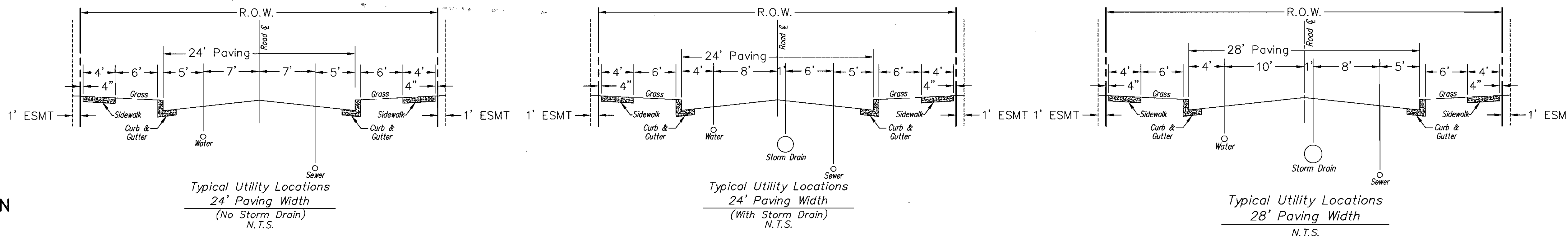
600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 AND P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

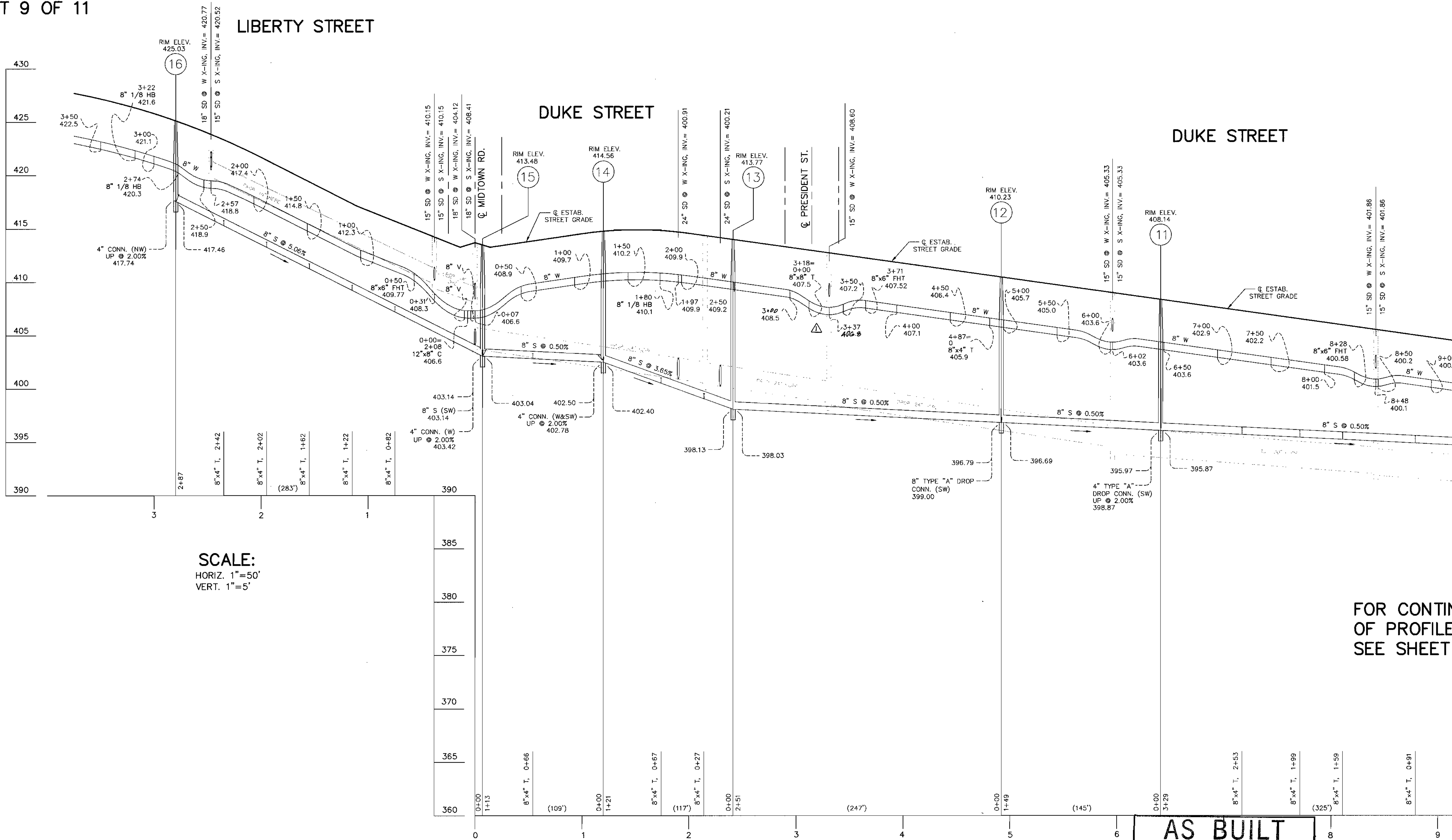
SCALE
AS
SHOWN

SHEET
6 OF 11

GLW FILE #02001



FOR CONTINUATION
OF PROFILE
SEE SHEET 9 OF 11



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

FOR CONTINUATION
OF PROFILE
SEE SHEET 8 OF 11

AS BUILT
DATE: JUNE 06, 2004

GLW FILE #02001

DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert B. ...
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
...
CHIEF, DEVELOPMENT ENGINEERING DIVISION

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES: BB	JAL	revise water main invert to avoid conflict with storm drain.	4/12/03
DRN: VAR			
CHK: CKG			
DATE: 4/03	BY: NO	REVISION	DATE

WATER and SEWER EXTENSION PLAN
600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

SCALE AS SHOWN
SHEET 7 OF 11

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FOR CONTINUATION
OF PROFILE
SEE SHEET 7 OF 11

LOT#	DIST.(FT)	TO
1	19.5	SMH-29
2	25	SMH-29
3	24	SMH-29
4	60	SDMH-10A
5	78	SDMH-10A
6	12	SMH-31
7	21.3	SMH-31
8	32	SMH-31
9	27	SDMH-18
10	33.07	SMH-18
11	24.33	SDMH-18
12	30	SMH-19
13	64	SDMH-19
14	34.5	SMH-19
15	56.5	SDMH-19
16	13.33	SMH-19
17	95.4	SDMH-19
18	12	SMH-32
19	15.5	SMH-32
20	25.5	SMH-32
21	19.56	SMH-32
22	26.56	SDMH-30
23	25.33	SMH-30
24	35.07	SDMH-30
25	23.08	SMH-30

LOT#	DIST.(FT)	TO
16	70	SDMH-50
17	92.5	F.H.
18	30.8	F.H.
19	21.9	SMH-37
20	41.5	SMH-37
21	32.6	SMH-37
22	56.3	F.H.
23	35	SMH-37
24	84.8	F.H.
25	60.33	F.H.
26	12.07	SMH-30
27	44	SMH-30
28	31.83	SMH-30
29	70.5	SMH-30
30	12	SMH-35
31	20.2	SMH-35
32	110	F.H.
33	109.33	F.H.
34	44.07	F.H.

LOT#	DIST.(FT)	TO
35	47	F.H.
36	36.5	SMH-37
37	13.41	SMH-37
38	20	SMH-37
39	61.33	SMH-14
40	55	SMH-14
41	22	SMH-14
42	27	SMH-14
43	21.07	SMH-14
44	47.4	SMH-14
45	11.16	SMH-13
46	37	SMH-13
47	7.07	SMH-21
48	69.07	SMH-21
49	35.07	SMH-21
50	45.25	SMH-21
51	35.5	SMH-21
52	49.0	SMH-21
53	48.0	SMH-21
54	38.33	SMH-21

LOT#	DIST.(FT)	TO
54	53.5	SMH-11
55	32.33	SMH-11
56	14.07	SMH-11
57	90.5	SMH-19
58	6.5	SMH-19
59	83.33	SMH-19
60	53	SMH-19
61	47.75	SMH-19
62	4.58	SMH-19
63	30.56	SMH-19
64	14	SMH-19
65	41.75	SMH-19
66	15	SMH-19
67	72.10	SMH-19
68	7	SMH-19
69	79.5	SMH-19
70	7	SMH-19
71	35	SMH-19
72	47.5	SMH-19
73	30	SMH-19
74	7	SMH-19

LOT#	DIST.(FT)	TO
74	64.5	SMH-19
75	10	SMH-19
76	10	SMH-19
77	57.5	SMH-19
78	9.41	SMH-19
79	7	SMH-23
80	99	SMH-23
81	16.07	SMH-23
82	33.33	SMH-23
83	9.42	SMH-23
84	25.07	SMH-23
85	6.75	SMH-23
86	17.75	SMH-23
87	15	SMH-34
88	9	SMH-34
89	15	SMH-34
90	9	SMH-34
91	78	SMH-34
92	30.5	SMH-34
93	21	SMH-34
94	51	SMH-34
95	49.33	SDMH-21
96	15.07	SDMH-21
97	55	SDMH-21
98	17	SMH-21
99	105	SDMH-21
100	17	SMH-21
101	112.07	SDMH-21
102	17	SMH-21
103	53.58	SDMH-20
104	7	SMH-20
105	18.58	SDMH-20
106	4	SMH-20
107	18.58	SDMH-20
108	17	SMH-20
109	18.58	SDMH-20
110	40.5	SDMH-12
111	7.07	SMH-12

LOT#	DIST.(FT)	TO
111	49	SDMH-12
112	7.75	SMH-12
113	80	SDMH-12
114	5.75	SMH-12
115	124.5	SDMH-12
116	131.83	F.H.
117	12	SMH-12
118	26	F.H.
119	10.33	SMH-9
120	79	F.H.
121	4.83	SMH-9
122	53.07	F.H.
123	7.33	SMH-9
124	49.75	F.H.
125	8.33	SMH-9
126	40	F.H.
127	4	SMH-9
128	30.5	F.H.
129	21	SMH-10
130	20	SMH-10
131	75	SMH-10
132	49	SMH-10
133	23	SMH-9
134	11.07	SMH-9
135	22.07	SMH-9
136	12.5	SMH-9
137	38	SMH-17
138	10	SMH-17
139	47	SMH-17
140	5	SMH-17
141	41.5	SMH-18
142	5	SMH-18
143	30.33	SDMH-35
144	3.16	SMH-35
145	51.83	SDMH-35
146	15	SMH-35

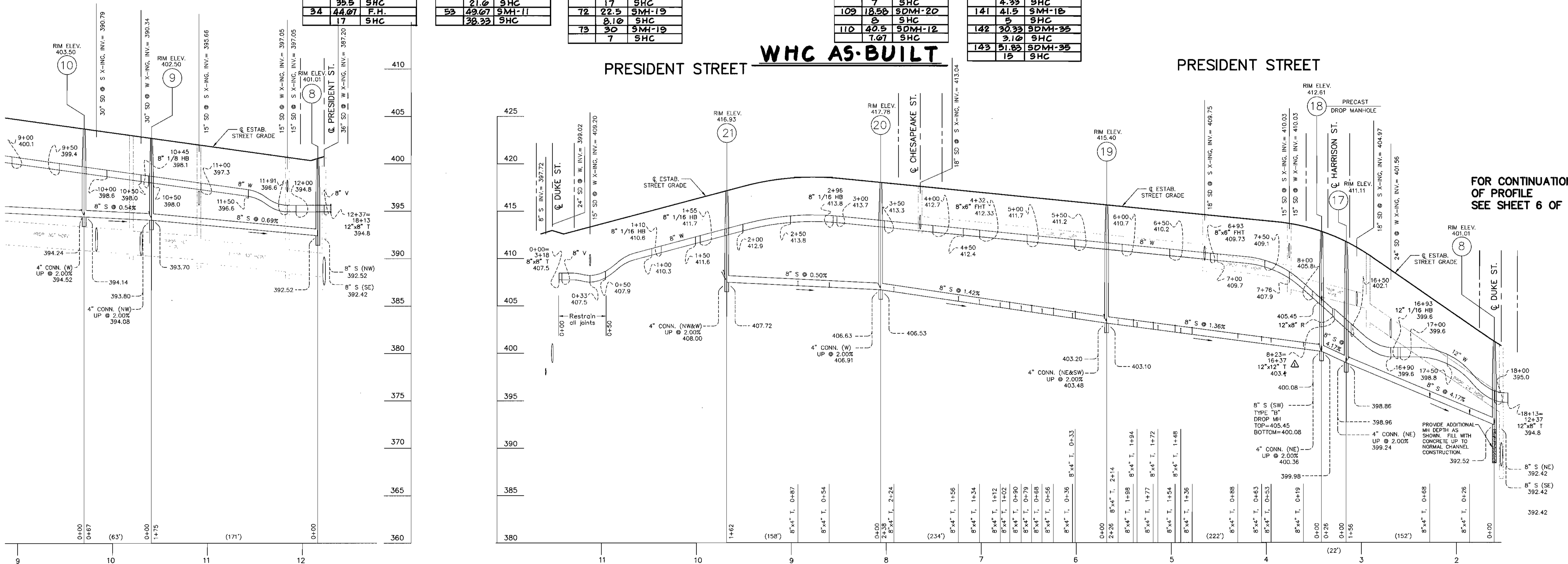
LOT#	DIST.(FT)	TO
144	24	SDMH-30
145	8.5	SMH-10
146	71.4	SMH-32
147	55	SMH-32
148	80.33	SDMH-18
149	8	SMH-18
150	47.5	SMH-31
151	9	SMH-10A
152	39	SDMH-14A
153	19.33	SMH-14A
154	21.58	F.H.
155	9	SMH-14A
156	49.25	LOT#1155SHC
157	8	SMH-14A
158	48.5	LOT#1155SHC
159	12.33	SMH-14A
160	58	LOT#1155SHC
161	5.42	SMH-14A
162	103.42	SDMH-12
163	11.42	SMH-12
164	54.91	SDMH-12
165	48	SDMH-12
166	7.07	SMH-12

LOT#	DIST.(FT)	TO
166	20	SDMH-12
167	10.83	SMH-12
168	27.16	SDMH-12
169	25.58	SMH-12
170	47	SMH-28
171	7.42	SMH-28
172	6.91	SMH-27
173	32.5	SMH-27
174	3.07	SMH-27
175	12.16	SMH-27
176	46.75	F.H.
177	22.33	SMH-27
178	40.5	F.H.
179	24.5	SMH-27
180	82.67	SDMH-7
181	5.07	SMH-7
182	75	SDMH-7
183	12.07	SMH-7
184	45	SDMH-7
185	5.5	SMH-7
186	38	SDMH-7
187	9.07	SMH-7

DUKE STREET

PRESIDENT STREET **WHC AS-BUILT**

PRESIDENT STREET



FOR CONTINUATION
OF PROFILE
SEE SHEET 6 OF 11

SCALE:
HORIZ. 1"=50'
VERT. 1"=5'

AS BUILT
DATE: JUNE 06, 2004

GLW FILE #02001

L:\CADD\DRAWINGS\02001\PHASE 2 (02001)\FINALS\02001WS.dwg 05/02/2003 10:56:04 AM EDT

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Robert Berman 5-5-03 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND [Signature] CHIEF, DEVELOPMENT ENGINEERING DIVISION	GLW GUTSCHICK LITTLE & WEBER, PA. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20886 TEL: 301-421-4024 FAX: 301-421-4186		DES: BB DRN: VAR CHK: CKG DATE: 4/03	11/12/03 revise water main invert to avoid conflict with storm drain.	WATER and SEWER EXTENSION PLAN 600' SCALE MAP NO. 46 BLOCK NO. 4	MAPLE LAWN FARMS MIDTOWN DISTRICT - AREA 1 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127 COMMON OPEN AREAS 128 THRU 132 AND PARCELS 'A', 'B', & 'C' P. 121, P. 450 and P. 205 CONTRACT No. 24-4105-D 5TH ELECTION DISTRICT	SCALE AS SHOWN
				SHEET 8 OF 11				

L:\CADD\DRAWINGS\02001\PHASE 2 (02001)\FINALS\02001WS.dwg 05/02/2003 10:56:04 AM EDT

Table with 3 columns: LOT#, DIST.(FT.), TO. Contains lot numbers 1 through 50 and their corresponding distances and TO values.

Table with 3 columns: LOT#, DIST.(FT.), TO. Contains lot numbers 10 through 40 and their corresponding distances and TO values.

Table with 3 columns: LOT#, DIST.(FT.), TO. Contains lot numbers 19 through 29 and their corresponding distances and TO values.

Table with 3 columns: LOT#, DIST.(FT.), TO. Contains lot numbers 28 through 38 and their corresponding distances and TO values.

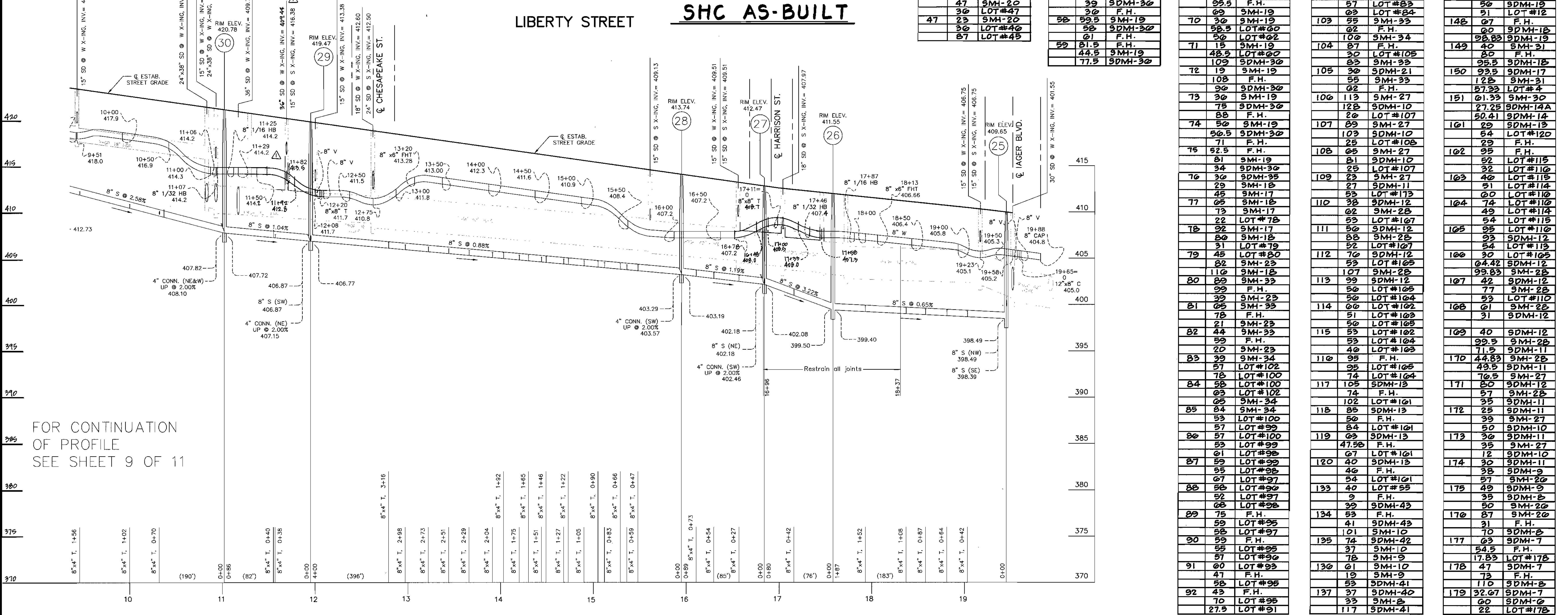
Table with 3 columns: LOT#, DIST.(FT.), TO. Contains lot numbers 37 through 47 and their corresponding distances and TO values.

Table with 3 columns: LOT#, DIST.(FT.), TO. Contains lot numbers 42 through 52 and their corresponding distances and TO values.

Table with 3 columns: LOT#, DIST.(FT.), TO. Contains lot numbers 60 through 70 and their corresponding distances and TO values.

Table with 3 columns: LOT#, DIST.(FT.), TO. Contains lot numbers 93 through 103 and their corresponding distances and TO values.

Table with 3 columns: LOT#, DIST.(FT.), TO. Contains lot numbers 130 through 140 and their corresponding distances and TO values.



SCALE: HORIZ. 1"=50' VERT. 1"=5'

FOR CONTINUATION OF PROFILE SEE SHEET 9 OF 11

AS BUILT DATE: JUNE 06, 2004

SHC AS-BUILT

GLW FILE #02001

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS



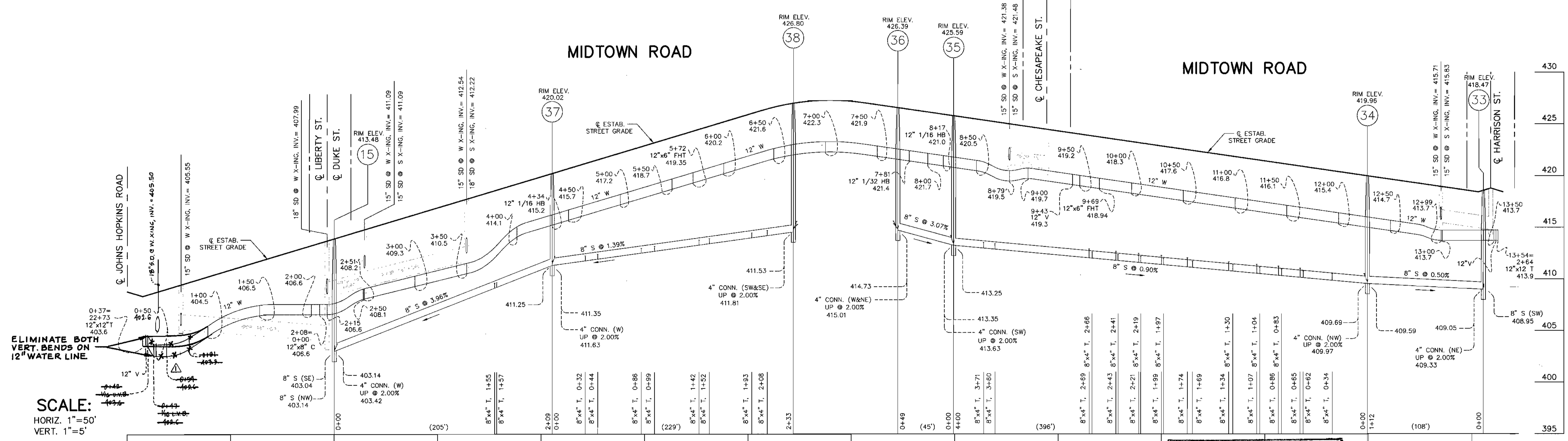
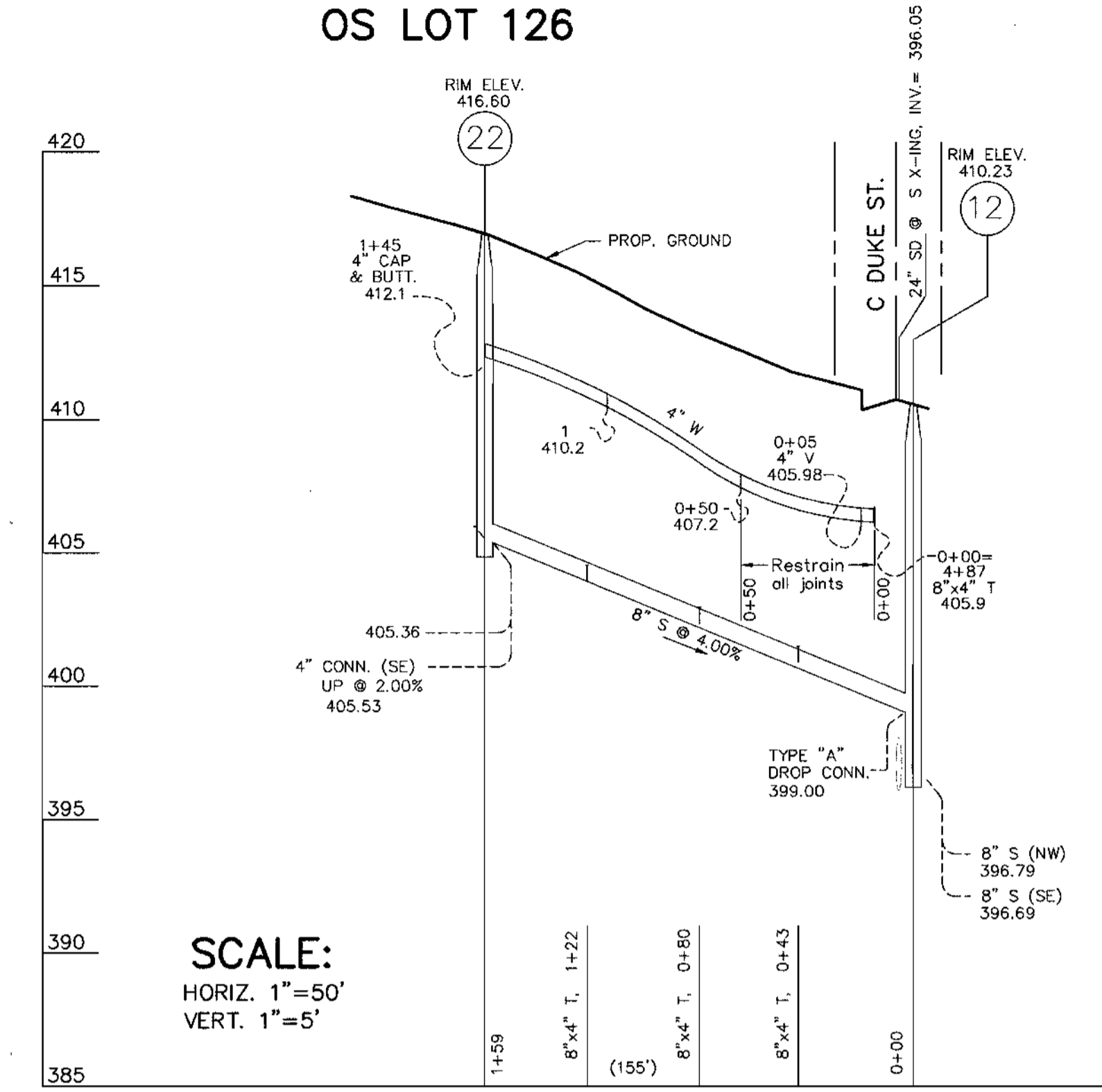
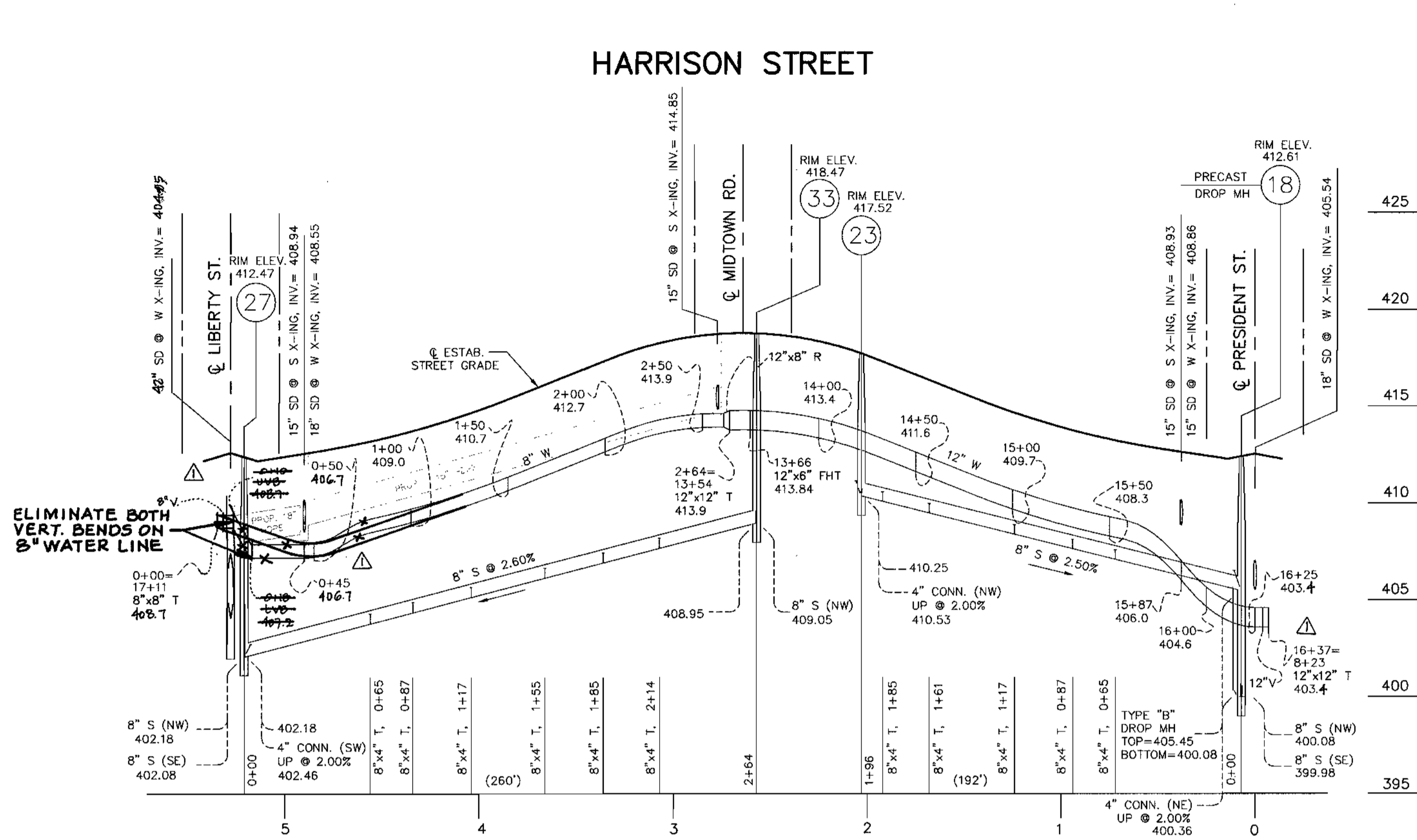
Table with columns: DES, DRN, CHK, DATE, BY, NO, REVISION, DATE. Contains project details and revision history.

WATER and SEWER EXTENSION PLAN 600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS MIDTOWN DISTRICT - AREA 1 LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127

SCALE AS SHOWN SHEET 10 OF 11

L:\CADD\DRAWINGS\02001\PHASE 2 (02001)\FINALS\02001WS.dwg 05/02/2003 10:56:04 AM EDT



AS BUILT
DATE: JUNE 06, 2004

GLW FILE #02001

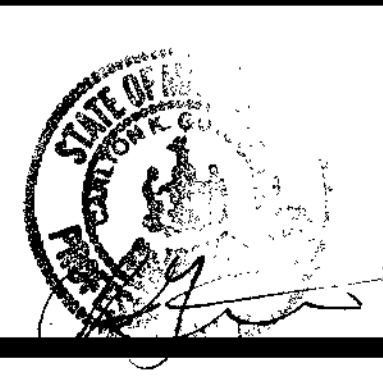
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Berman 5-5-03
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

John P. ... 5/1/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTNSVILLE OFFICE PARK
BURTNSVILLE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-880-1820 DCVA: 301-989-2524 FAX: 301-421-4186



DES: BB	JAW	△	revise water main invert to avoid conflict with storm drain.	11/12/03
DRN: VAR				
CHK: CKG				
DATE: 4/03	BY: NO	REVISION	DATE	

WATER and SEWER EXTENSION PLAN

600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND
PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

SCALE AS SHOWN
SHEET 11 OF 11

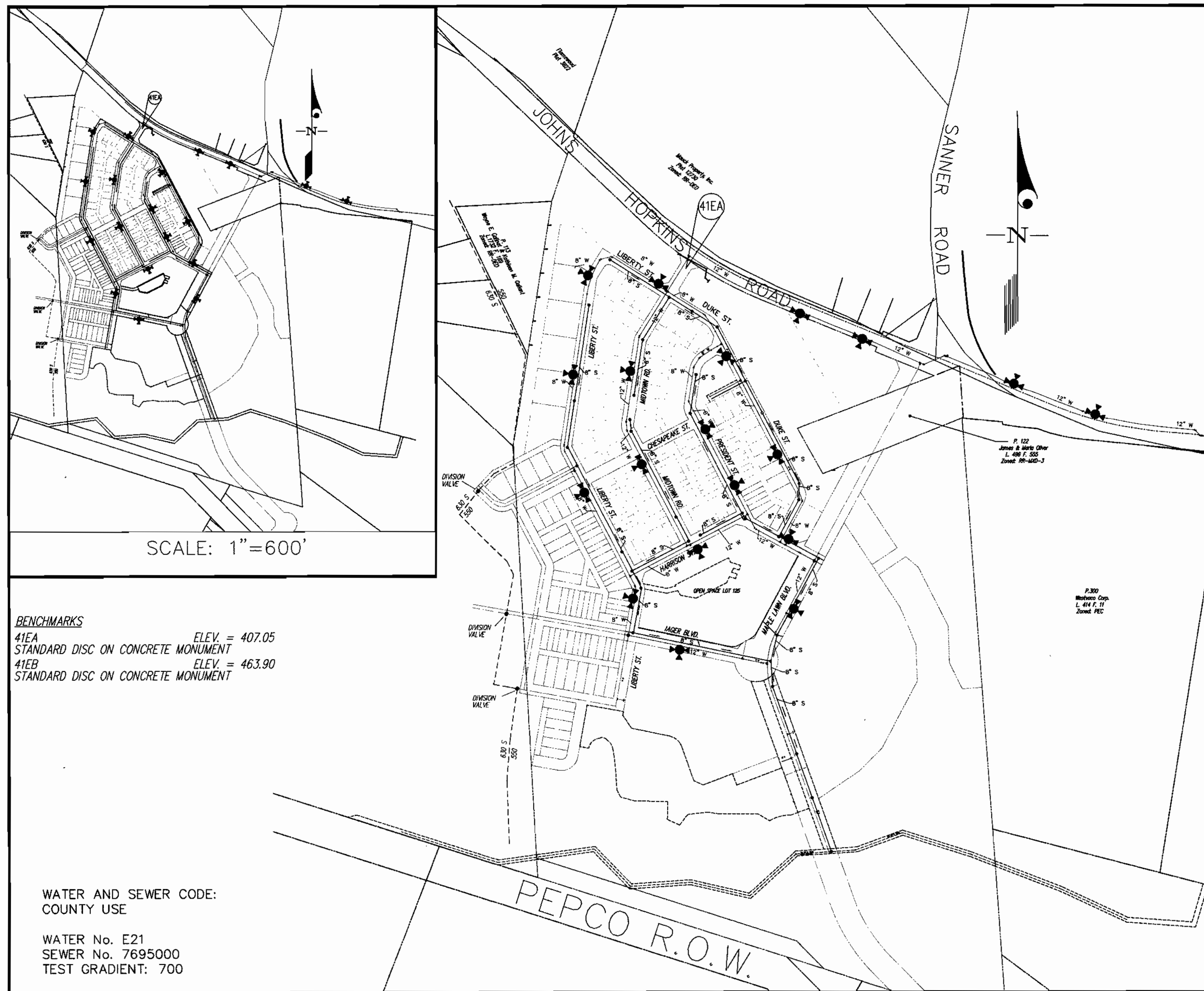
CONTRACT No. 24-4105-D
 MAPLE LAWN FARMS
 LOTS 1 THRU 120
 OPEN SPACE LOTS 121 THRU 127
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

TYPE OF BUILDING	SINGLE FAMILY
NUMBER OF UNITS	120
NUMBER OF S.H.C.'s	144
NUMBER OF W.H.C.'s	144 + 1 irrigation only Δ
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	LITTLE PATUXENT WWTP

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
4" WATER	145 LF	145 L.F.	D.I.P.	GRIFFIN PIPE
6" WATER (FH's)	273 LF	105 L.F.	D.I.P.	GRIFFIN PIPE
8" WATER	4397 LF	5979 L.F.	D.I.P.	GRIFFIN PIPE
12" WATER	5364 LF	4754 L.F.	D.I.P.	GRIFFIN PIPE
1" W.H.C.	1004 LF	3012 L.F.	COPPER	—
1" W.H.C. VOID	1004 LF	3012 L.F.		
1 1/2" W.H.C. Δ	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12" 1/2" U.V.B.	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12" 1/2" L.V.B.	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12"x12" CROSS	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12"x8" CROSS	2 EA.	2 EA.	D.I.P.	HUGHES SUPPLY
12"x6" FHT	10 EA.	10 EA.	D.I.P.	HUGHES SUPPLY
12"x6" T	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12"x8" T	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12"x12" T	6 EA.	4 EA.	D.I.P.	HUGHES SUPPLY
12"x8" REDUCER	3 EA.	3 EA.	D.I.P.	HUGHES SUPPLY
12" VALVE	16 EA.	13 EA.	D.I.P.	HUGHES SUPPLY
12" CAP	3 EA.	2 EA.	D.I.P.	HUGHES SUPPLY
12" PLUG	3 EA.	3 EA.	D.I.P.	HUGHES SUPPLY
12" 1/32" U.V.B.	2 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12" 1/32" L.V.B.	2 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
12" 1/8" HB	4 EA.	4 EA.	D.I.P.	HUGHES SUPPLY
12" 1/16" HB	3 EA.	2 EA.	D.I.P.	HUGHES SUPPLY
12" 1/32" HB	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
8" 1/8" HB	4 EA.	3 EA.	D.I.P.	HUGHES SUPPLY
8" 1/16" HB	5 EA.	6 EA.	D.I.P.	HUGHES SUPPLY
8" 1/32" HB	2 EA.	2 EA.	D.I.P.	HUGHES SUPPLY
8"x8" T	3 EA.	3 EA.	D.I.P.	HUGHES SUPPLY
8"x8" T (FHT)	9 EA.	9 EA.	D.I.P.	HUGHES SUPPLY
8"x4" T	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
8" VALVE	11 EA.	10 EA.	D.I.P.	HUGHES SUPPLY
8" CAP	3 EA.	3 EA.	D.I.P.	HUGHES SUPPLY
6" VALVE (FHV)	19 EA.	19 EA.	D.I.P.	HUGHES SUPPLY
4" VALVE	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
4" CAP	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
8" 1/2" U.V.B.	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
8" 1/2" L.V.B.	1 EA.	1 EA.	D.I.P.	HUGHES SUPPLY
FIRE HYDRANT - 4.5'	4 EA.	4 EA.	KENNEDY	HUGHES SUPPLY
FIRE HYDRANT - 5.0'	12 EA.	12 EA.	KENNEDY	HUGHES SUPPLY
FIRE HYDRANT - 5.5'	3 EA.	3 EA.	KENNEDY	HUGHES SUPPLY
6" VALVE	—	1 EA.	KENNEDY	HUGHES SUPPLY
8" PVC SEWER	7071 LF	7198 L.F.	SDR-35	HUGHES SUPPLY
8" D.I. SEWER	228 LF	230 L.F.	D.I.P.	GRIFFIN PIPE
6" PVC (SHC)	108 LF	80 L.F.	SDR-35	HUGHES SUPPLY
4" PVC (SHC)	3860 LF	3751 L.F.	SDR-35	HUGHES SUPPLY
MH's	39 EA.	39 EA.	PRECAST	CONTRACTORS PRECAST
DROP	2 EA.	2 EA.	PRECAST	CONTRACTORS PRECAST
8" STOPPER	7 EA.	7 EA.	—	EAST JORDAN IRON WORKS

NAME OF UTILITY CONTRACTOR: GAINES & CO. UNDERGROUND UTILITIES

SURVEY AND DRAFTING DIV. CHECKBOX: AS-BUILT DATE: 09/04



BENCHMARKS
 41EA ELEV. = 407.05
 STANDARD DISC ON CONCRETE MONUMENT
 41EB ELEV. = 463.90
 STANDARD DISC ON CONCRETE MONUMENT

WATER AND SEWER CODE:
 COUNTY USE

WATER No. E21
 SEWER No. 7695000
 TEST GRADIENT: 700

VICINITY MAP
 SCALE: 1" = 300'

GENERAL NOTES

- PART I
- Approximate locations 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, NAD 83/91.
 - All vertical controls are based on NAVD 88.
 - All pipe elevations shown are invert elevations unless otherwise noted on the plans.
 - Clear all utilities by a minimum of 12". Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. 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 the bracing of additional poles or damages shall be deducted from monies 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 Details 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 \odot at the locations 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.
 - The contractor shall notify the following utility companies or agencies at least (5) working days before starting work shown on these plans:

AT&T	1-800-252-1133
BGE (Contractor Services)	410-850-4620
BGE (Under Ground Damage Control)	410-787-9068
Bureau of Utilities	410-313-4900
Colonial Pipeline Co.	410-795-1390
Miss Utility	1-800-257-7777
State Highway Administration	410-531-5533
Verizon	1-800-743-0033/410-224-9210
 - 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.
 - The 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.
 - The contractor shall notify the Bureau of Highways, Howard County, at 410-313-2450 at least five (5) working days before any open cutting or boring/jacking of any County road or boring/jacking operation on County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirement per Section 18.114(a) of the Howard County Code.
 - All buildable lots shown hereon shall have one (1) foot wide public easement adjacent to the Public Road Right of Way, for the purpose of sidewalk maintenance, water house connection and sewer house connection.

PART II - WATER

- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Tops of all water mains shall have a minimum of 3'-6" 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 installed 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.

PART III - SEWER

- 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.
- Force mains shall be D.I.P. only.
- Manholes shown with 12" and 16" walls are for brick manholes only. Manholes designated W.T. in plan and profile shall have watertight frame and cover, Standard Detail G5.52. Where watertight manhole frames and covers are 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 the cellar cannot be served.

AS BUILT
 DATE: JUNE 09, 2004

GLW FILE No. 02001

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Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications, with Road Drawings Plan F-03-090 ; Drawings 13 thru 21 for Sediment & Erosion Control, and with these plans.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

John R. Reuter 5/7/03
 SIGNATURE DATE

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

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

APPROVED: *John R. Reuter* 5/7/03
 HOWARD S.C.D. DATE



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Robert B. Bunker 5-5-03
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
Chad Demmer 5/14/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BALT: 410-880-1020 DC/VA: 301-969-2524 FAX: 301-421-4186



DES: BB	JAL	Δ	revise quantities to reflect plan	4/12/03
DRN: VAR	KLW	Δ	4 profile changes added 1/2" W.H.C. per irrigation line at entrance	9/10/04
CHK: CKG				
DATE: 4/03	BY	NO	REVISION	DATE

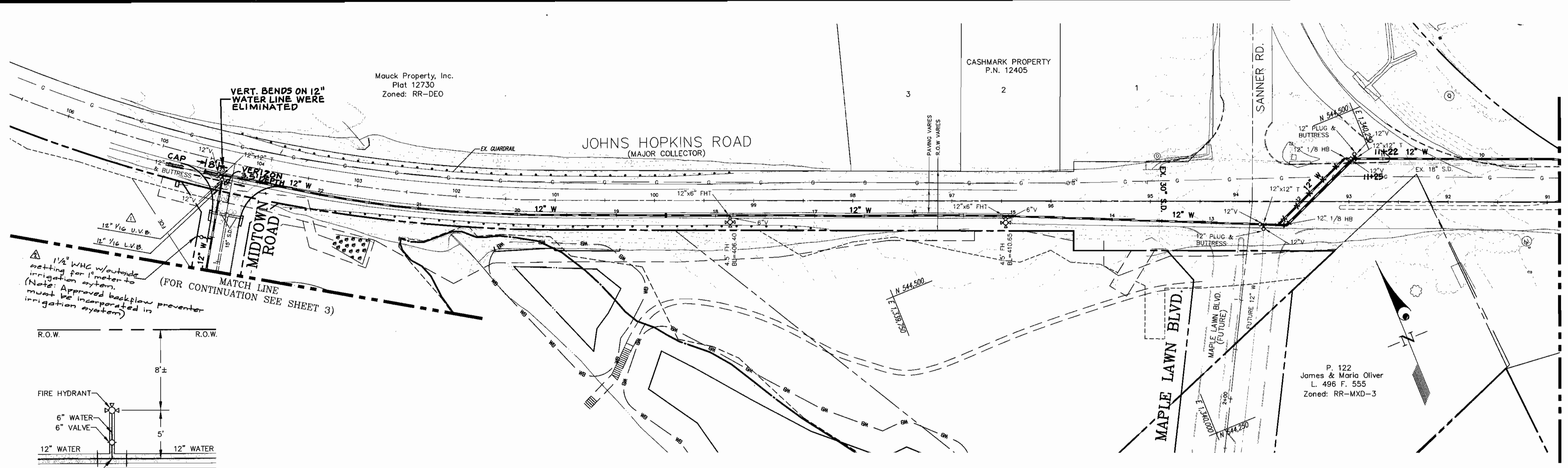
TITLE SHEET
 SCALE: AS SHOWN

600' SCALE MAP NO. 46 BLOCK NO. 4

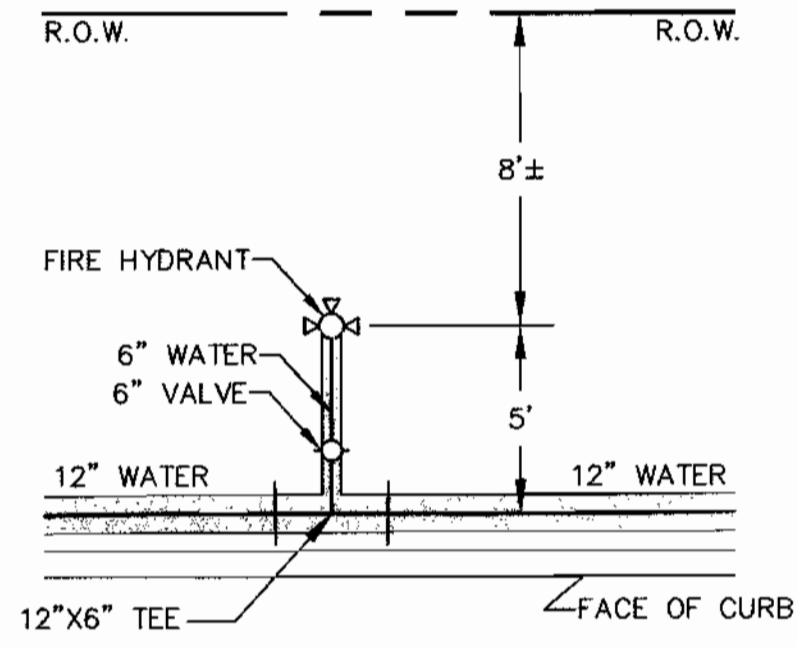
MAPLE LAWN FARMS
 MIDTOWN DISTRICT - AREA 1
 LOTS 1 THRU 120, OPENS SPACE LOTS 121 THRU 127
 COMMON OPEN AREAS 128 THRU 132 AND
 PARCELS 'A', 'B', & 'C'
 P. 121, P. 450 and P. 205
 CONTRACT No. 24-4105-D
 5TH ELECTION DISTRICT

SCALE AS SHOWN
 SHEET 1 OF 11

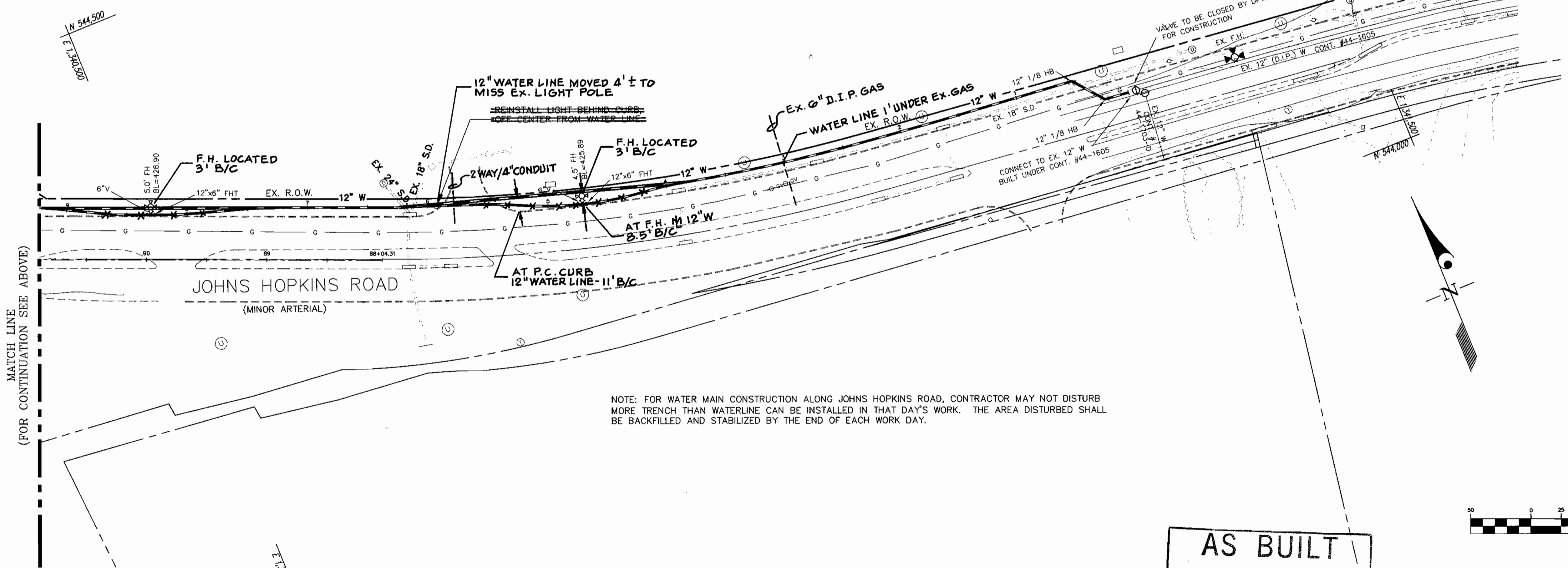
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1 1/2" W.H.C. w/outside setting for 1 meter to irrigation system. (Note: Approved backflow preventer must be incorporated in irrigation system)

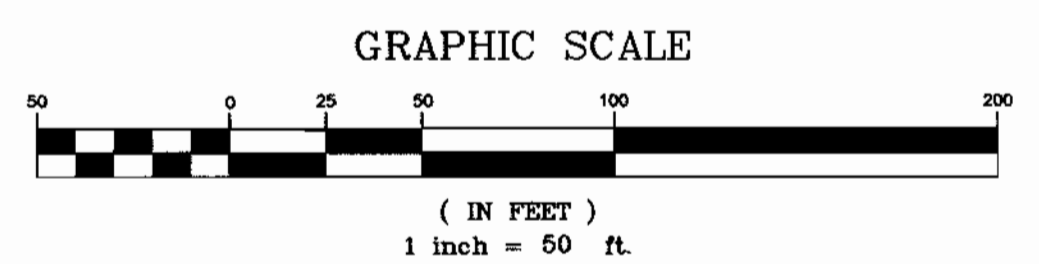


TYPICAL FIRE HYDRANT DETAIL
JOHNS HOPKINS ROAD
NOT TO SCALE



NOTE: FOR WATER MAIN CONSTRUCTION ALONG JOHNS HOPKINS ROAD, CONTRACTOR MAY NOT DISTURB MORE TRENCH THAN WATERLINE CAN BE INSTALLED IN THAT DAY'S WORK. THE AREA DISTURBED SHALL BE BACKFILLED AND STABILIZED BY THE END OF EACH WORK DAY.

AS BUILT
DATE: JUNE 09, 2004



MATCH LINE (FOR CONTINUATION SEE BELOW)

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
R. B. ... 5-5-03
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
...
CHIEF, DEVELOPMENT ENGINEERING DIVISION

GLWGUTSCHICK LITTLE & WEBER, P.A.
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3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20886
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES:	BB	JAW	added upper & lower vert. bends to avoid conflict with storm drain	1/2/03
DRN:	VAR	KLP	added 1 1/2" bar irrigation system at Midtown Rd. entrance	4/27/04
CHK:	CKG			
DATE:	4/03	BY	NO	REVISION
				DATE

WATER and SEWER EXTENSION PLAN

600' SCALE MAP NO. 46 BLOCK NO. 4

MAPLE LAWN FARMS
MIDTOWN DISTRICT - AREA 1
LOTS 1 THRU 120, OPEN SPACE LOTS 121 THRU 127
COMMON OPEN AREAS 128 THRU 132 AND PARCELS 'A', 'B', & 'C'
P. 121, P. 450 and P. 205
CONTRACT No. 24-4105-D
5TH ELECTION DISTRICT

SCALE AS SHOWN
SHEET 2 OF 11

GLW FILE #02001