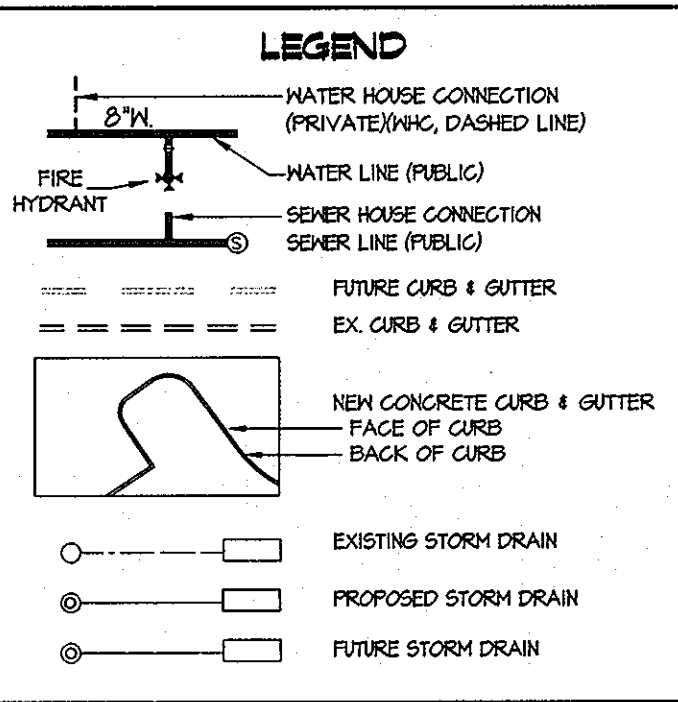


ITEMS	QUANTITIES ESTIMATED	AS-BUILT		MANUFACTURER/SUPPLIER
		QUANTITIES	TYPE	
6" WATER	146 LF	160.0		U.S. PIPE / BELAIR RD. SUP.
8" WATER MAIN	1649 LF	1660.0		" / "
12" WATER MAIN	1143 LF	1220.0		" / "
1" MHC	1,777 LF	1800.0		" / "
8" SEWER MAIN (PVC)	3,332 LF	3444.0		J.M. MFG. / "
8" SEWER MAIN (DIP)	836 LF	840.0		U.S. PIPE / "
4" SHC	2,244 LF	3010.0		J.M. MFG. / "
4" MANHOLE	20 EA	29.0		ATL. CONC. PROD.
8" x 8" TEE	3 EA.	3		SIGMA CO. / BELAIR RD. SUP.
8" 1/8" H.B.	2 EA.	2		" / "
8" 1/16" H.B.	3 EA.	3		" / "
8" 1/32" H.B.	1 EA.	1		" / "
8" x 6" FHT	4 EA.	4		" / "
8" VALVE	5 EA.	5		MUELLER / "
6" VALVE	11 EA.	11		" / "
12" x 6" TEE	4 EA.	3		SIGMA CO. / "
12" x 12" T.S.F.V.	1 EA.	1		" / "
12" x 12" CROSS	1 EA.	1		" / "
12" x 8" REDUCER	2 EA.	2		" / "
12" 1/8" H.B.	8 EA.	8		" / "
12" x 6" FHT	3 EA.	3		" / "
8" x 6" FHT	4 EA.	4		" / "
FIRE HYDRANT	1 EA.	7		MUELLER / "

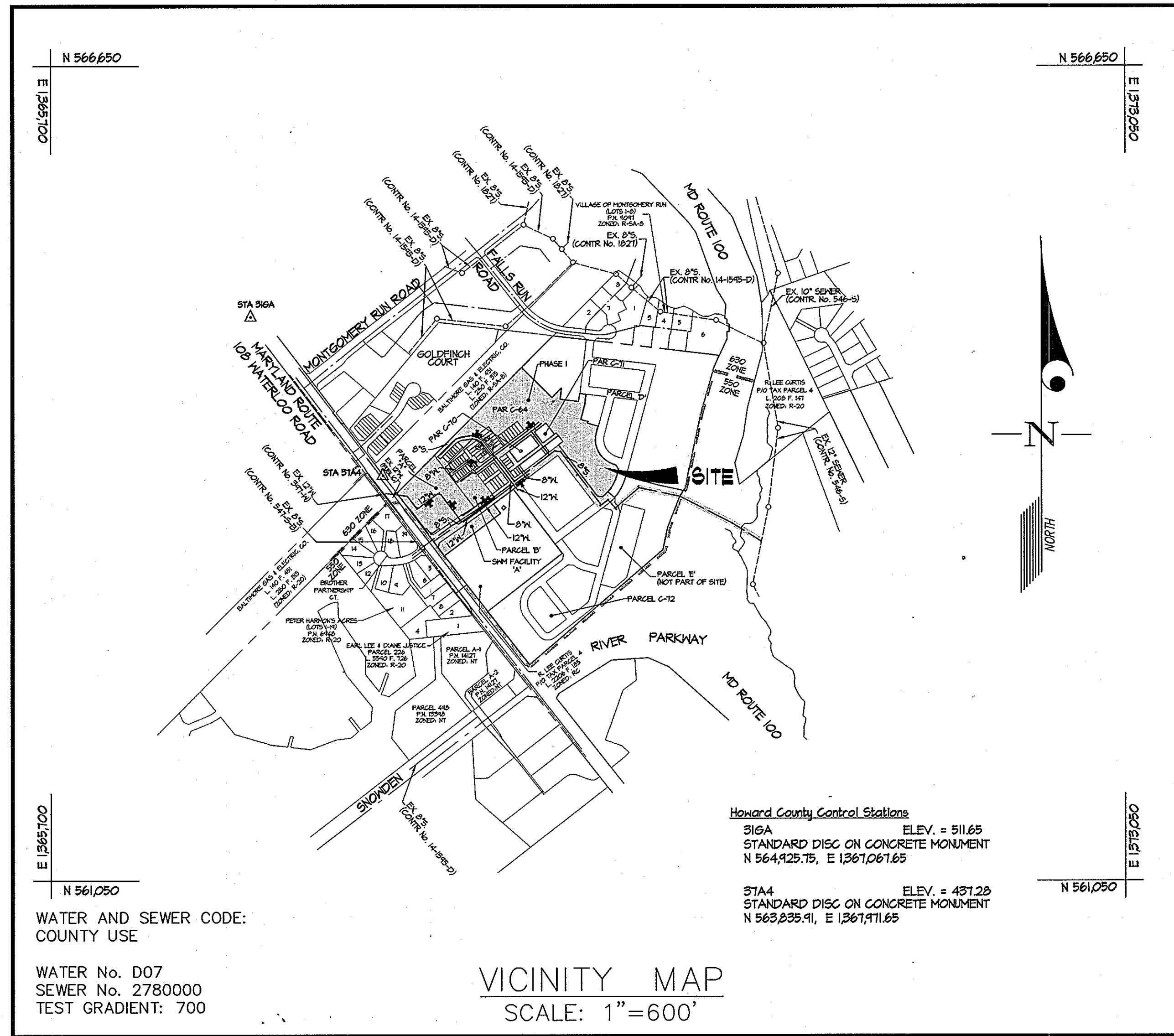
NAME OF UTILITY CONTRACTOR: **W.F. WILSON** INSP: **RCM (K1)**

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

NOTE: ALL WATER HOUSE CONNECTIONS TO BE 1" WITH A 3/4" INSIDE METER, UNLESS NOTED OTHERWISE, SEE HO. CO. STD. DETAIL W3.24.



- SHEET INDEX**
- 1) COVER SHEET
 - 2) WATER and SEWER EXTENSION PLAN
 - 3) WATER and SEWER EXTENSION PLAN
 - 4) WATER and SEWER EXTENSION PROFILES
 - 5) WATER and SEWER EXTENSION PROFILES
 - 6) WATER and SEWER EXTENSION PROFILES
 - 7) SEDIMENT CONTROL PLAN (SEWER OUTFALL)
 - 8) SEDIMENT CONTROL DETAIL SHEET



WATER AND SEWER CODE: WATER USE
 WATER No. D07
 SEWER No. 2780000
 TEST GRADIENT: 700

VICINITY MAP
 SCALE: 1"=600'

TYPE OF BUILDING	RESIDENTIAL/COMMERCIAL
NUMBER OF UNITS	112
NUMBER OF S.H.C.'s	110 (108-4" SHC/1-6" SHC/1-8" SHC)
NUMBER OF W.H.C.'s	76 (72-1" MHC/4-6" MHC's)
DRAINAGE AREA	PATAPSCO
TREATMENT PLANT	PATAPSCO WASTEWATER TREATMENT PLANT

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 SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - AERIAL TOPOGRAPHIC FOR THIS PROJECT IS BY MCKENZIE SNYDER, INC. DATED 3/23/03.
 - HORIZONTAL AND VERTICAL SURVEY CONTROLS:
 THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD 83/11 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS No. 316A AND No. 31A4.
 ALL VERTICAL CONTROLS ARE BASED ON NAVD 88. VERTICAL CONTROLS PROVIDED ON DRAWINGS ARE NGVD 24.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. 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 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 DRAWING, 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 PITS. 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 FIVE WORKING DAYS BEFORE STARTING WORK ON THESE PLANS:

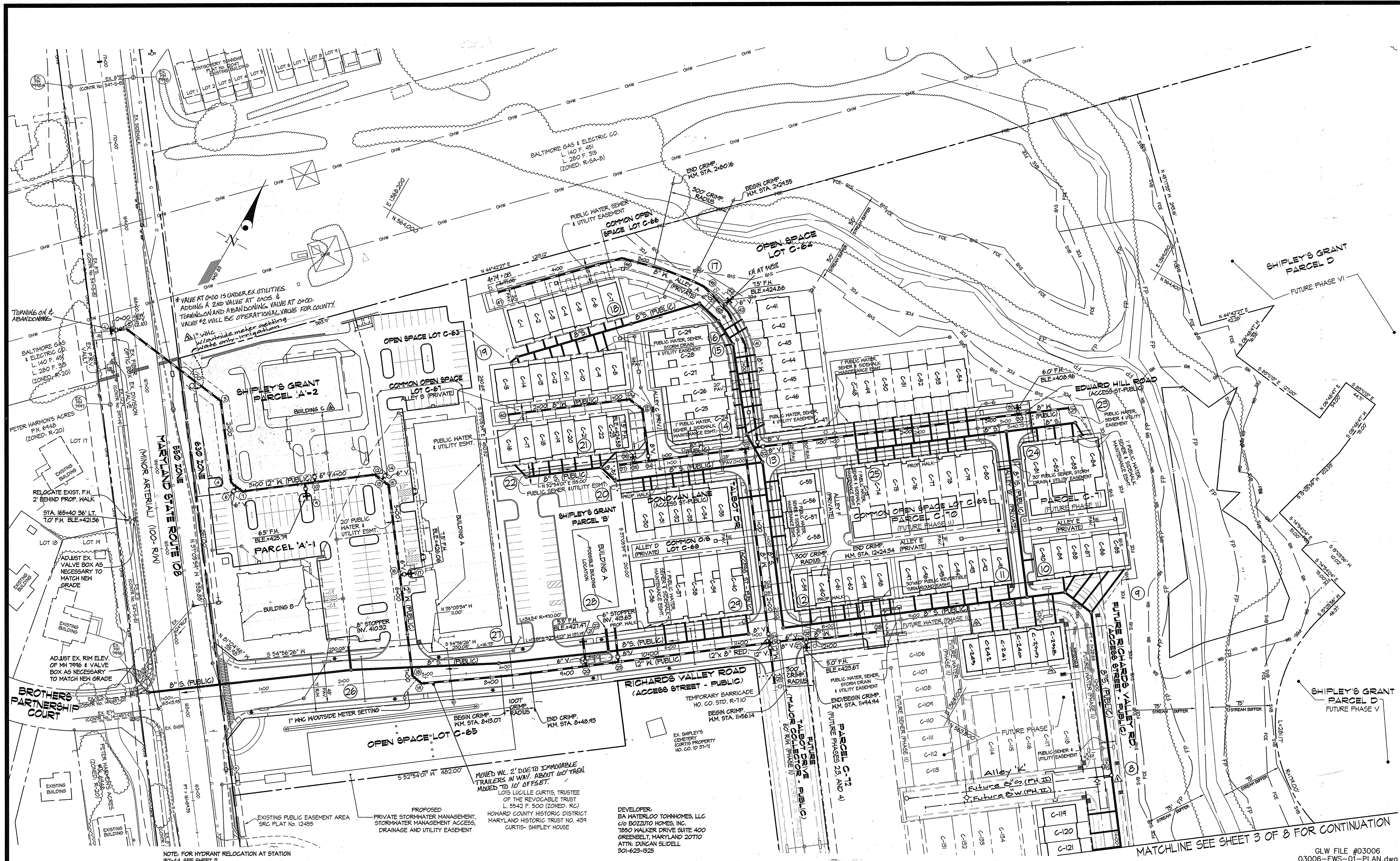
AT&T	1-800-252-1133
BGE (CONTRACTOR SERVICES)	410-850-4620
BGE (UNDER GROUND DAMAGE CONTROL)	410-850-1400
BUREAU OF UTILITIES	410-313-4400
COLONIAL PIPELINE CO.	410-195-1390
MISS UTILITY	1-800-251-TTTT
STATE HIGHWAY ADMINISTRATION	410-331-5533
VERIZON	1-800-743-0033 / 410-224-4210
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION AREA STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)-313-1450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/LACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPM REQUIREMENTS PER SECTION 18.114(G) OF THE HOWARD COUNTY CODE.
- PART II - WATER**
- ALL MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF 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 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. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 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 THE 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 65.52. 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 THE CELLAR CANNOT BE SERVED.

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Road Drawings Plans F 07-43 and sheets 7 & 8; Drawings for Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.
 Jim Myers 5/15/07
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE
 APPROVED: John R. Robertson 5/15/07
 HOWARD S.C.D. Date

DEVELOPER:
 BA WATERLOO TOWNHOMES, LLC
 c/o BOZZUTO HOMES, INC.
 7850 WALKER DRIVE SUITE 400
 GREENBELT, MARYLAND 20710
 ATTN: DUNCAN SLIDELL
 301-623-1525

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 5/14/07	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND 5/16/07	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: 410-860-1820 DC/VA: 301-988-2524 FAX: 301-421-4186	DES: WBJ/MJT DRN: WBJ/OOT CHK: WBJ DATE: MAY 2007	TITLE SHEET SCALE: AS SHOWN	SHIPLEY'S GRANT - PHASE 1 LOTS C-1 THRU C-62, OPEN SPACE LOTS C-63 THRU C-65 COMMON OPEN SPACE LOTS C-66 THRU C-69, BUILDABLE PARCELS "A", "B" AND "C-70" THRU "C-72" HOWARD COUNTY, MARYLAND ELECTION DISTRICT No. 1 CONTRACT No. 14-4355-D TAX MAP: 37-B1	SCALE AS SHOWN SHEET 1 OF 8
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* VALUE AT 0.00 IS UNDER EX. UTILITIES.
 ADDING A 2ND VALUE AT 0.00S &
 TURNING ON AND ABANDONING VALVE AT 0.00.
 VALUE #2 WILL BE OPERATIONAL VALUE FOR COUNTY.
 1" MHC W/OUTSIDE METER SETTING
 W/ATE ONLY - IRRIGATION

NOTE: FOR HYDRANT RELOCATION AT STATION
 157+44, SEE SHEET 3.

MATCHLINE SEE SHEET 3 OF 8 FOR CONTINUATION
 GLW FILE #03006
 03006-FWS-01-PLAN.dwg

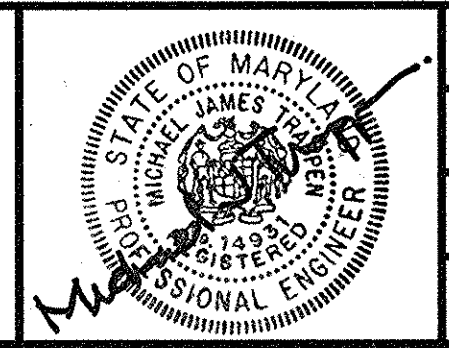
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

W. Kelly R. Rous 5/14/07
 BUREAU OF UTILITIES DATE

W. D. ... 5/14/07
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW GUTSCHICK 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 FAX: 301-421-4185



DES:	MS/J				
DRN:	MS/J				
CHK:	MS/J				
DATE:	MAY 2007				
BY:	NO				

WATER and SEWER EXTENSION PLAN
 PLAN SCALE: 1" = 50'

600' SCALE MAP NO. 37 BLOCK NO. 1&2

SHIPLEY'S GRANT - PHASE I
 LOTS C-1 THRU C-62, OPEN SPACE LOTS C-63 THRU C-65,
 COMMON OPEN SPACE LOTS C-66 THRU C-69,
 BUILDABLE PARCELS "A", "B" AND "C-70" THRU "C-72"
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 1
 ZONING: R-A-15 CONTRACT No. 14-4355-D TAX MAP: 37 B-1

SCALE AS SHOWN
 SHEET 2 OF 9

LOT NO.	MCE	INV. @ R/A ELEV.
C-1	424.55	422.05
C-2	424.34	421.84
C-3	424.16	421.67
C-4	423.98	421.50
C-5	423.75	421.25
C-6	423.54	421.04
C-7	423.31	420.81
C-8	423.08	420.58
C-9	422.85	420.35
C-10	422.62	420.12
C-11	422.39	419.89
C-12	422.16	419.66
C-13	421.93	419.43
C-14	421.70	419.20
C-15	421.47	418.97
C-16	421.24	418.74
C-17	421.01	418.51
C-18	420.78	418.28
C-19	420.55	418.05
C-20	420.32	417.82
C-21	420.09	417.59
C-22	419.86	417.36
C-23	419.63	417.13
C-24	419.40	416.90
C-25	419.17	416.67
C-26	418.94	416.44
C-27	418.71	416.21
C-28	418.48	415.98
C-29	418.25	415.75
C-30	418.02	415.52
C-31	417.79	415.29
C-32	417.56	415.06
C-33	417.33	414.83
C-34	417.10	414.60
C-35	416.87	414.37
C-36	416.64	414.14
C-37	416.41	413.91
C-38	416.18	413.68
C-39	415.95	413.45
C-40	415.72	413.22
C-41	415.49	412.99
C-42	415.26	412.76
C-43	415.03	412.53
C-44	414.80	412.30
C-45	414.57	412.07
C-46	414.34	411.84
C-47	414.11	411.61
C-48	413.88	411.38
C-49	413.65	411.15
C-50	413.42	410.92
C-51	413.19	410.69
C-52	412.96	410.46
C-53	412.73	410.23
C-54	412.50	410.00
C-55	412.27	409.77
C-56	412.04	409.54
C-57	411.81	409.31
C-58	411.58	409.08
C-59	411.35	408.85
C-60	411.12	408.62
C-61	410.89	408.39
C-62	410.66	408.16
C-63	410.43	407.93
C-64	410.20	407.70
C-65	409.97	407.47
C-66	409.74	407.24
C-67	409.51	407.01
C-68	409.28	406.78
C-69	409.05	406.55
C-70	408.82	406.32
C-71	408.59	406.09
C-72	408.36	405.86
C-73	408.13	405.63
C-74	407.90	405.40
C-75	407.67	405.17
C-76	407.44	404.94
C-77	407.21	404.71
C-78	406.98	404.48
C-79	406.75	404.25
C-80	406.52	404.02
C-81	406.29	403.79
C-82	406.06	403.56
C-83	405.83	403.33
C-84	405.60	403.10
C-85	405.37	402.87
C-86	405.14	402.64
C-87	404.91	402.41
C-88	404.68	402.18
C-89	404.45	401.95
C-90	404.22	401.72
C-91	403.99	401.49
C-92	403.76	401.26
C-93	403.53	401.03
C-94	403.30	400.80
C-95	403.07	400.57
C-96	402.84	400.34
C-97	402.61	400.11
C-98	402.38	399.88
C-99	402.15	399.65
C-100	401.92	399.42
C-101	401.69	399.19
C-102	401.46	398.96
C-103	401.23	398.73
C-104	401.00	398.50
C-105	400.77	398.27
C-106	400.54	398.04
C-107	400.31	397.81
C-108	400.08	397.58
C-109	399.85	397.35
C-110	399.62	397.12
C-111	399.39	396.89
C-112	399.16	396.66
C-113	398.93	396.43
C-114	398.70	396.20
C-115	398.47	395.97
C-116	398.24	395.74
C-117	398.01	395.51
C-118	397.78	395.28
C-119	397.55	395.05
C-120	397.32	394.82
C-121	397.09	394.59
C-122	396.86	394.36
C-123	396.63	394.13
C-124	396.40	393.90
C-125	396.17	393.67
C-126	395.94	393.44
C-127	395.71	393.21
C-128	395.48	392.98
C-129	395.25	392.75
C-130	395.02	392.52
C-131	394.79	392.29
C-132	394.56	392.06
C-133	394.33	391.83
C-134	394.10	391.60
C-135	393.87	391.37
C-136	393.64	391.14
C-137	393.41	390.91
C-138	393.18	390.68
C-139	392.95	390.45
C-140	392.72	390.22
C-141	392.49	389.99
C-142	392.26	389.76
C-143	392.03	389.53
C-144	391.80	389.30
C-145	391.57	389.07
C-146	391.34	388.84
C-147	391.11	388.61
C-148	390.88	388.38
C-149	390.65	388.15
C-150	390.42	387.92

LOT No.	DISTANCE (feet)
C-1	21.00'
C-2	20.00'
C-3	16.00'
C-4	16.00'
C-5	20.00'
C-6	20.00'
C-7	21.51'
C-8	28.00'
C-9	20.00'
C-10	20.00'
C-11	16.00'
C-12	16.00'
C-13	20.00'
C-14	20.00'
C-15	20.00'
C-16	21.00'
C-17	20.00'
C-18	20.00'
C-19	16.00'
C-20	20.00'
C-21	20.00'
C-22	20.00'
C-23	21.00'
C-24	20.00'
C-25	22.00'
C-26	22.00'
C-27	22.00'
C-28	22.00'
C-29	28.00'
C-30	35.00'
C-31	20.00'
C-32	16.00'
C-33	16.00'
C-34	20.00'
C-35	35.00'
C-36	41.00'
C-37	22.00'
C-38	22.00'
C-39	22.00'
C-40	35.00'
C-41	22.00'
C-42	22.00'
C-43	22.00'
C-44	22.00'
C-45	22.00'
C-46	22.00'
C-47	24.00'
C-48	24.00'
C-49	22.00'
C-50	22.00'
C-51	22.00'
C-52	22.00'
C-53	22.00'
C-54	24.00'
C-55	28.00'
C-56	20.00'
C-57	20.00'
C-58	21.00'
C-59	26.75'
C-60	26.00'
C-61	16.00'
C-62	16.00'
C-63	26.00'
C-64	22.00'
C-65	22.00'
C-66	22.00'
C-67	22.00'
C-68	22.00'
C-69	22.00'
C-70	22.00'
C-71	22.00'
C-72	22.00'
C-73	22.00'
C-74	22.00'
C-75	22.00'
C-76	22.00'
C-77	22.00'
C-78	22.00'
C-79	22.00'
C-80	28.00'
C-81	28.00'
C-82	22.00'
C-83	22.00'
C-84	28.00'
C-85	22.00'
C-86	22.00'
C-87	16.00'
C-88	16.00'
C-89	20.00'
C-90	22.00'
C-91	21.21'
C-92	16.00'
C-93	16.00'
C-94	20.00'
C-95	20.00'
C-96	20.00'
C-97	25.75'
C-98	25.75'
C-99	20.00'
C-100	30.00'
C-101	20.00'
C-102	20.00'
C-103	20.00'
C-104	20.00'
C-105	20.00'
C-106	20.00'
C-107	20.00'
C-108	20.00'
C-109	20.00'
C-110	20.00'
C-111	20.00'
C-112	20.00'
C-113	20.00'
C-114	20.00'
C-115	20.00'
C-116	20.00'
C-117	20.00'
C-118	20.00'
C-119	20.00'
C-120	20.00'
C-121	20.00'
C-122	20.00'
C-123	20.00'
C-124	20.00'
C-125	20.00'
C-126	20.00'
C-127	2.4-14'
C-128	1.0-0.0'
C-129	1.0-0.0'
C-130	77.47'

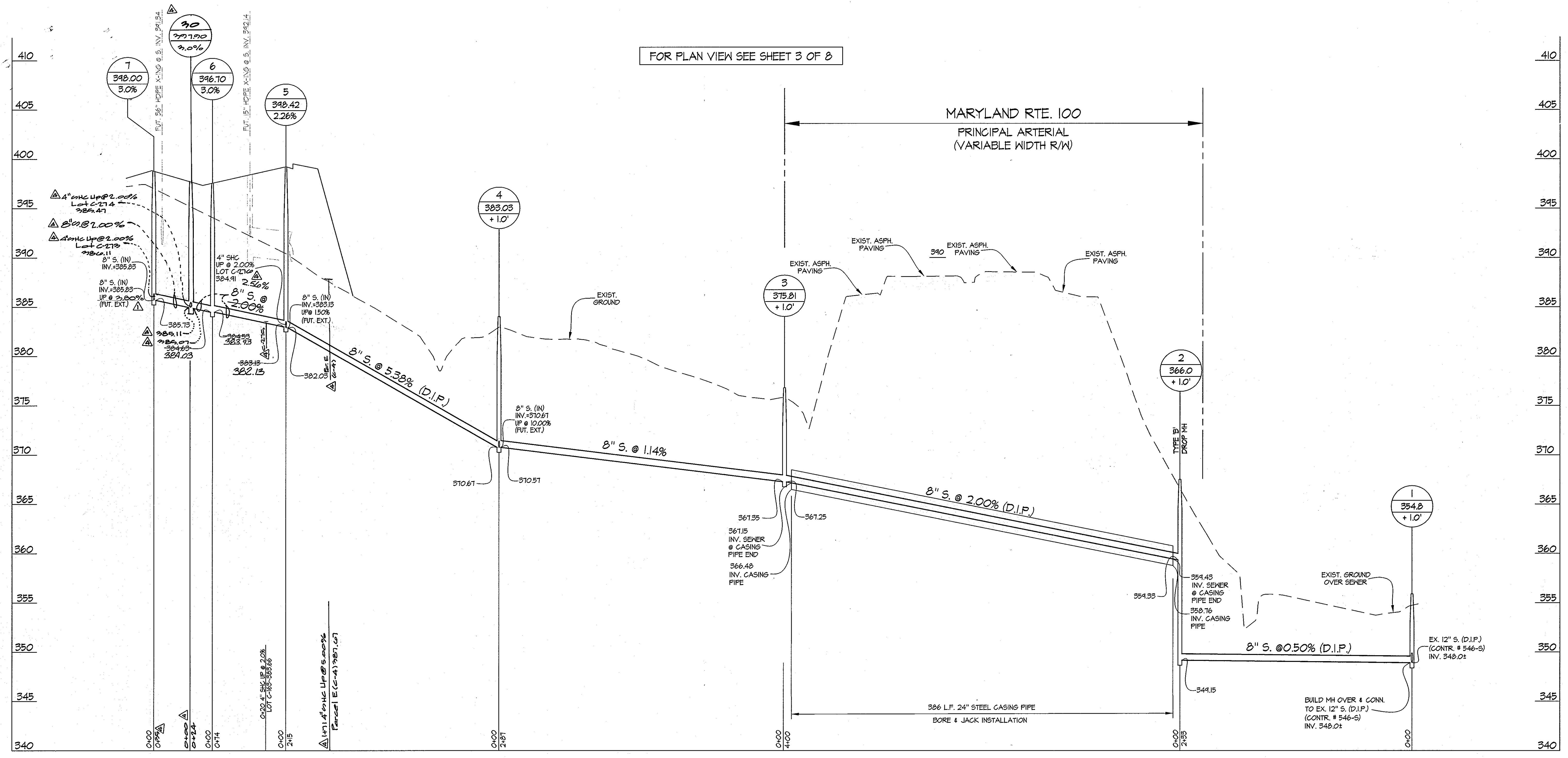
MH No.	NORTH STATION	EAST OFFSET
MH-1	N 563381.6391	E 1510260.2094
MH-2	N 563451.6782	E 1510469.1461
MH-3	N 563641.1066	E 1510003.1822
MH-4	N 563751.1484	E 1564123.1444
MH-5	N 563861.2019	E 1564594.6083
MH-6	4442.56	6.65' RIGHT
MH-7	3404.00	1.00' RIGHT
MH-8	15079.600	4.00' LEFT
MH-9	1144.84	12.32' LEFT
MH-10	10483.47	12.24' LEFT
MH-11	10404.88	4.00' LEFT
MH-12	741.26	4.00' LEFT
MH-13	0404.00	4.00' LEFT
MH-14	N 563711.6000	E 1563712.2225
MH-15	N 564068.2106	E 1563642.0282
MH-16	N 564024.4056	E 1563685.5145
MH-17	N 564042.0515	E 1563555.1443
MH-18	N 564026.5164	E 1563523.7530
MH-19	N 563921.2473	E 1563423.2875
MH-20	N 563951.5848	E 1563422.8544
MH-21	N 563985.1544	E 1563394.7113
MH-22	N 563900.3252	E 1563506.5053
MH-23	N 564193.1561	E 1564056.4661
MH-24	3408.65	4.00' LEFT
MH-25	1255.50	4.00' LEFT
MH-26	2402.65	11.24' LEFT
MH-27	3404.00	4.00' LEFT
MH-28	525.48	1.00' LEFT
MH-29	6448.21	1.00' LEFT

FITTING No.	FITTING TYPE	NORTH STATION	EAST OFFSET
(1)	12" x 12" T.S. & V	N 563702.2832	E 1561171.5456
(2)	12" 1/8" H.B.	N 563714.2540	E 1561142.4278
(3)	12" 1/8" H.B.	N 563645.2534	E 1563156.6126
(4)	12" 1/8" H.B.	N 563615.2536	E 1563171.4360
(5)	12" x 6" T.	N 563615.6574	E 1563206.0754
(6)	12" CAP	N 563603.1261	E 1563204.6481
(7)	12" 1/8" H.B.	N 563612.4521	E 1563214.1042
(8)	12" x 6" F.H.T.	N 563658.7460	E 1563215.4004
(9)	FIRE HYDRANT	N 563646.2546	E 1563235.3457
(10)	12" x 6" T.	N 563665.5085	E 1563235.3442
(11)	12" CAP	N 563674.2881	E 1563214.2555
(12)	12" 1/8" H.B.	N 563710.6048	E 1563344.4141
(13)	12" x 6" T.	N 563704.1508	E 1563354.4262
(14)	12" CAP	N 563718.4444	E 1563356.2242
(15)	12" 1/8" H.B.	N 563707.6468	E 1563365.4326
(16)	12" x 6" F.H.T.	N 563694.8011	E 1563432.1074
(17)	FIRE HYDRANT	N 563621.8875	E 1563443.0540

FITTING No.	FITTING TYPE	NORTH STATION	EAST OFFSET
(18)	12" 1/8" H.B.	2484.21	3.11' LEFT
(19)	12" 1/8" H.B.	2485.03	7.00' RIGHT
(20)	12" x 6" F.H.T.	4446.43	7.00' RIGHT
(21)	FIRE HYDRANT	4446.43	25.00' LEFT
(22)	12" CAP	5415.05	30.00' LEFT
(23)	12" x 6" T.	5436.34	11.00' RIGHT
(24)	12" x 12" CROSS	1422.43	1.00' RIGHT
(25)	8" x 6" F.H.T.	1461.10	1.41' RIGHT
(26)	FIRE HYDRANT	1466.33	18.50' RIGHT
(27)	12" CAP	8453.30	10.00' RIGHT

FITTING No.	FITTING TYPE	NORTH STATION	EAST OFFSET
(28)	8" x 8" T.	0410.00	10.00' RIGHT
(29)	8" x 8" T.	1428.48	10.00' RIGHT
(30)	8" x 6" F.H.T.	1441.00	10.00' RIGHT
(31)	FIRE HYDRANT	1441.00	18.00' RIGHT
(32)	8" CAP	1464.82	10.00' LEFT

FITTING No.	FITTING TYPE	NORTH STATION	EAST OFFSET
(33)	8" x 8" T.	N 563912.6571	E 1562133.2614
(34)	8" 1/8" H.B.	N 564073.5543	E 1562651.0552
(35)	8" 1/8" H.B.	N 564041.4672	E 1562614.4124
(36)	8" x 6" F.H.T.	N 564102.2503	E 1562610.2504
(37)	FIRE HYDRANT	N 564102.2503	E 1562615.5181
(38)	8" 1/8" H.B.	N 564100.0216	E 1562578.2485
(39)	8" 1/8" H.B.	N 564030.2445	E 1562473.4904
(40)	8" CAP	N 563918.9411	E 1562363.2



FOR PLAN VIEW SEE SHEET 3 OF 8

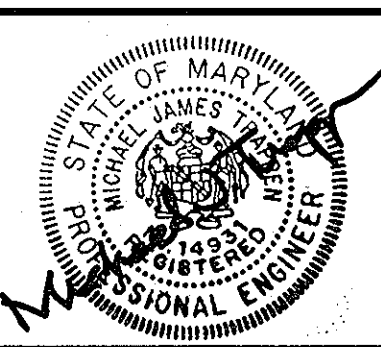
DEVELOPER:
BA WATERLOO TOWNHOMES, LLC
c/o BOZZUTO HOMES, INC.
1850 WALKER DRIVE SUITE 400
GREENBELT, MARYLAND 20770
ATTN: DUNCAN SLIDELL
301-623-1525

GLW FILE #03006
03006-FWS-01-PROF.dwg

DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND
W. Kelly 5/16/07
BUREAU OF UTILITIES DATE

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
W. Dennis 5/16/07
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONTVILLE OFFICE PARK
BURTONTVILLE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-889-2524 FAX: 301-421-4188



DES:	WJ/MJT				
DRN:	WJ/OOT				
CHK:	WJ	WJ	WJ	WJ	WJ
DATE:	MAY 2007				
BY:	NO	REVISION	DATE		

WATER and SEWER EXTENSION
PROFILES
SCALE: 1" = 50' VERT.
1" = 5' HORZ.
600' SCALE MAP NO. 37 BLOCK NO. 1&2

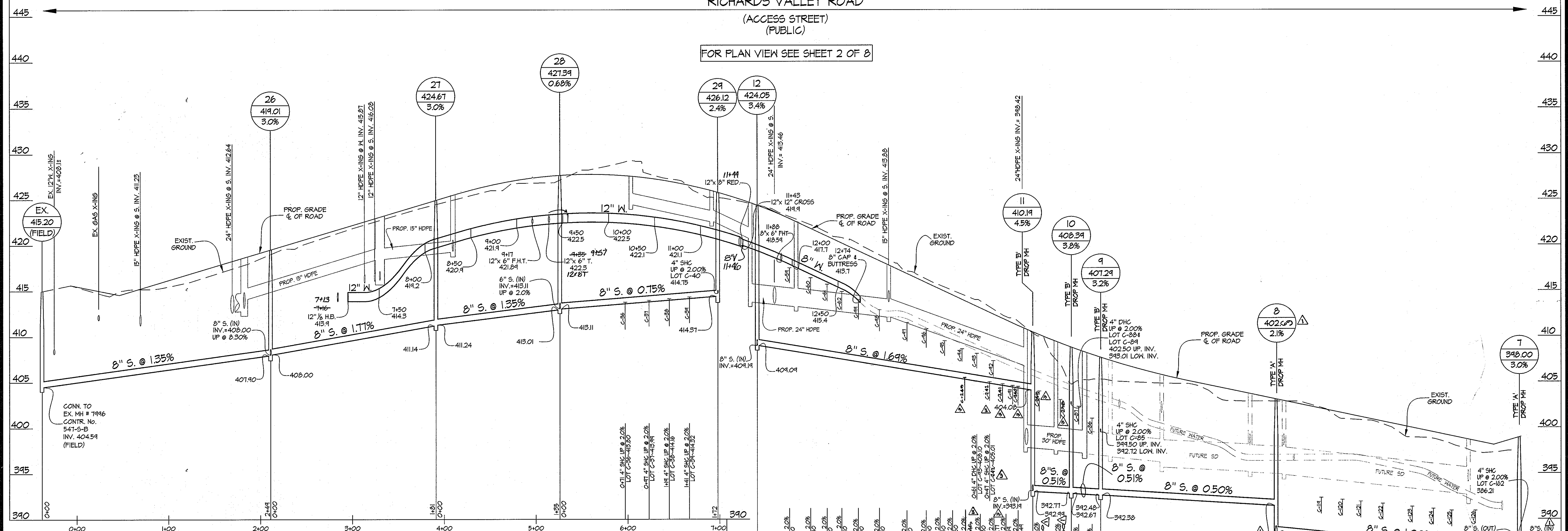
SHIPLEY'S GRANT - PHASE 1
LOTS C-1 THRU C-62, OPEN SPACE LOTS C-63 THRU C-65,
COMMON OPEN SPACE LOTS C-66 THRU C-69,
BUILDABLE PARCELS "A", "B" AND "C-70" THRU "C-72"
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 1
ZONING: R-A-15 CONTRACT No. 14-4355-D TAX MAP: 57 B-1

SCALE AS SHOWN
SHEET 4 OF 2

RICHARDS VALLEY ROAD

(ACCESS STREET)
(PUBLIC)

FOR PLAN VIEW SEE SHEET 2 OF 8

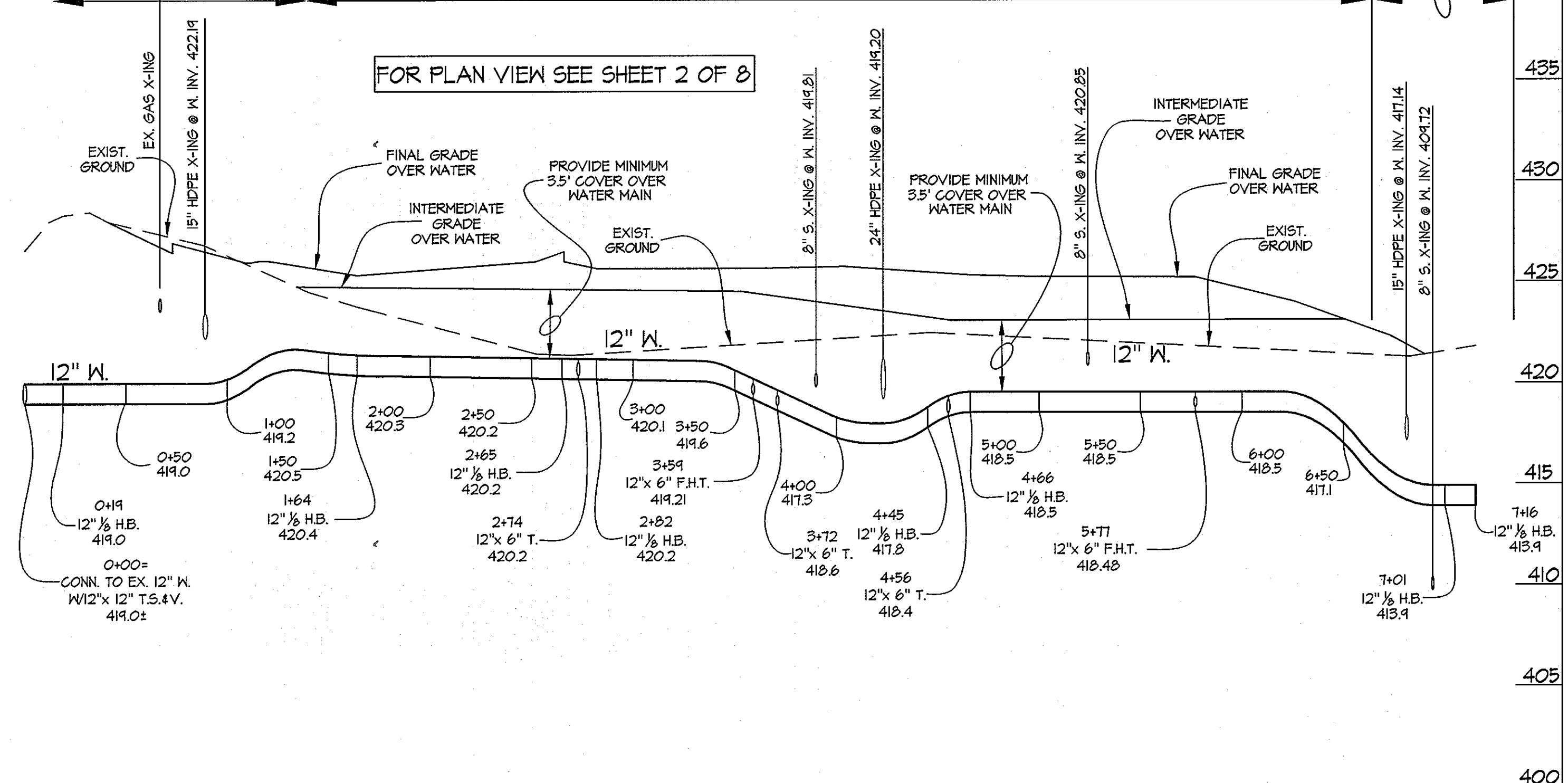


MD. STATE RTE. 108
(MINOR-ARTERIAL)

SHIPLEY'S GRANT
PARCEL 'A'

RICHARDS VALLEY ROAD
(MINOR COLLECTOR)
(PUBLIC)

FOR PLAN VIEW SEE SHEET 2 OF 8



DEVELOPER:
BA WATERLOO TOWNHOMES, LLC
c/o BOZZUTO HOMES, INC.
1850 WALKER DRIVE SUITE 400
GREENBELT, MARYLAND 20710
ATTN: DUNCAN SLIDELL
301-623-1529

GLW FILE #03006
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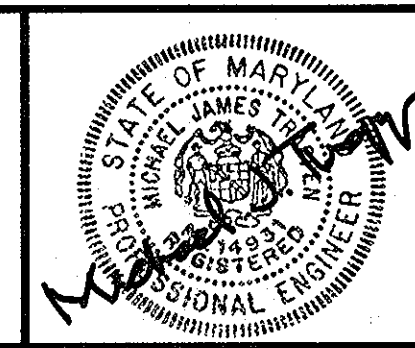
DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 5/14/07
BUREAU OF UTILITIES DATE

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

[Signature] 5/16/07
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 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES:	MS/J				
DRN:	MS/J				
CHK:	MS/J				
DATE:	MAY 2007				
BY:	NO				
REVISION:					
DATE:					

WATER and SEWER EXTENSION
PROFILES
SCALES: 1" = 50' VERT.
1" = 5' HORIZ.

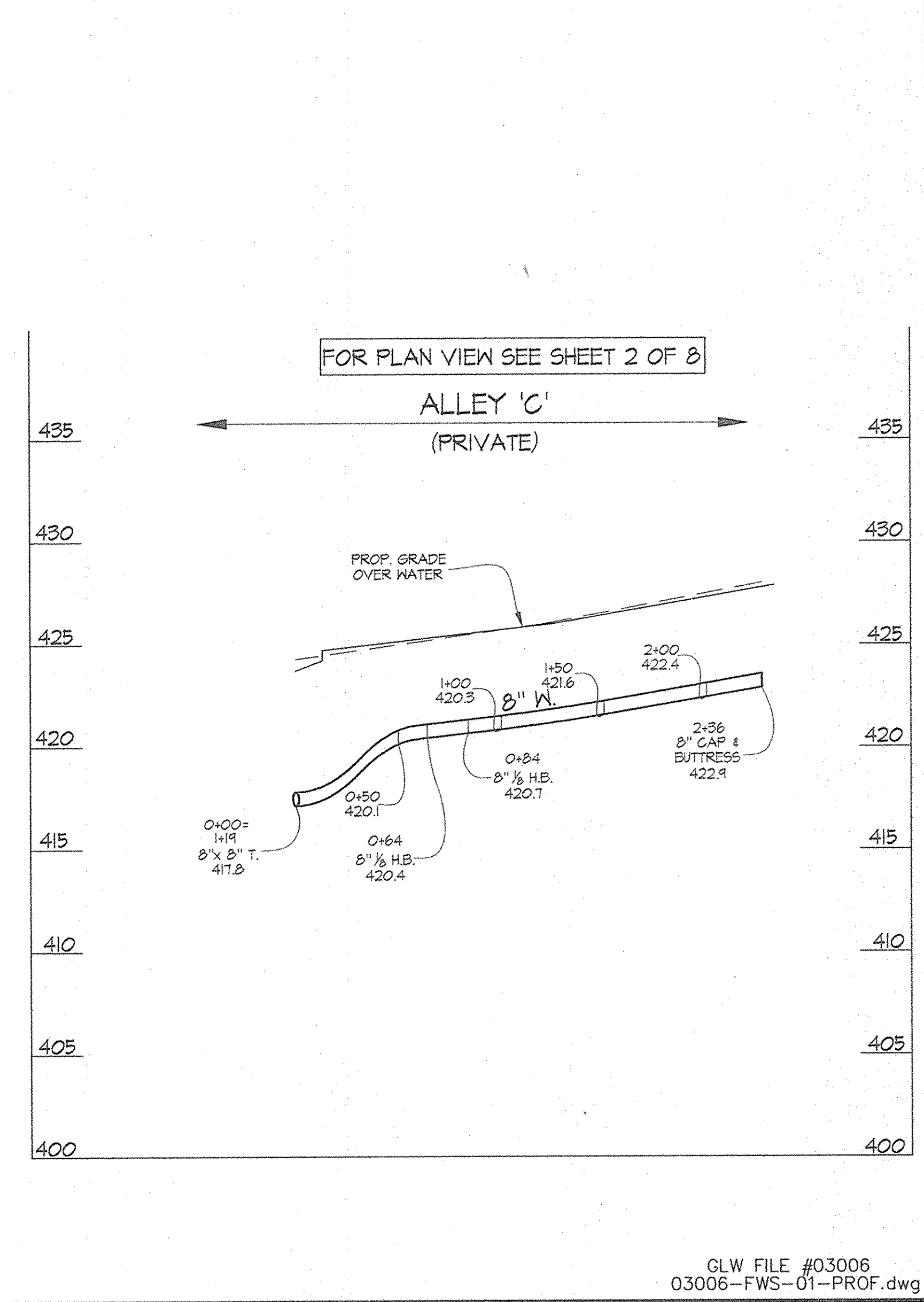
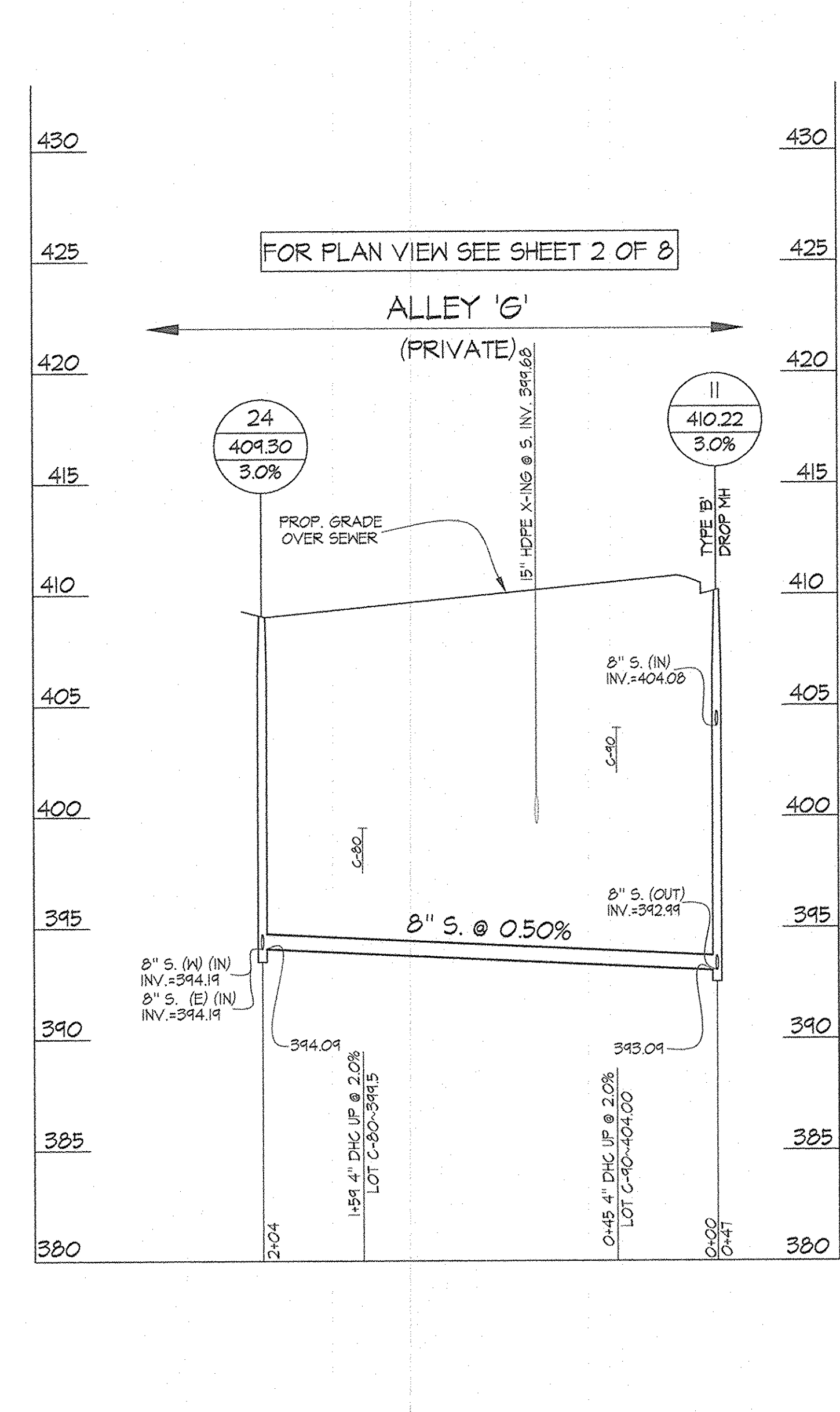
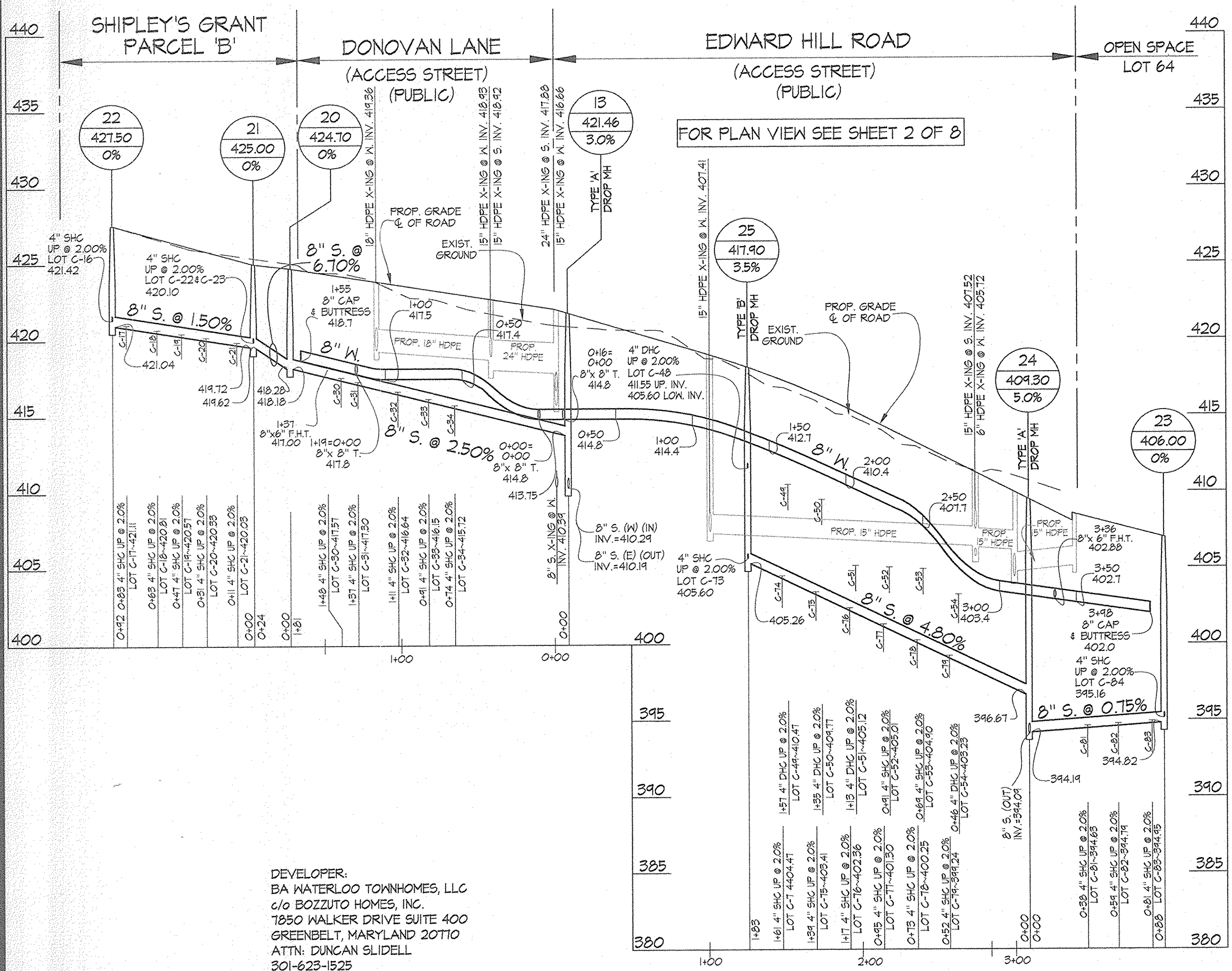
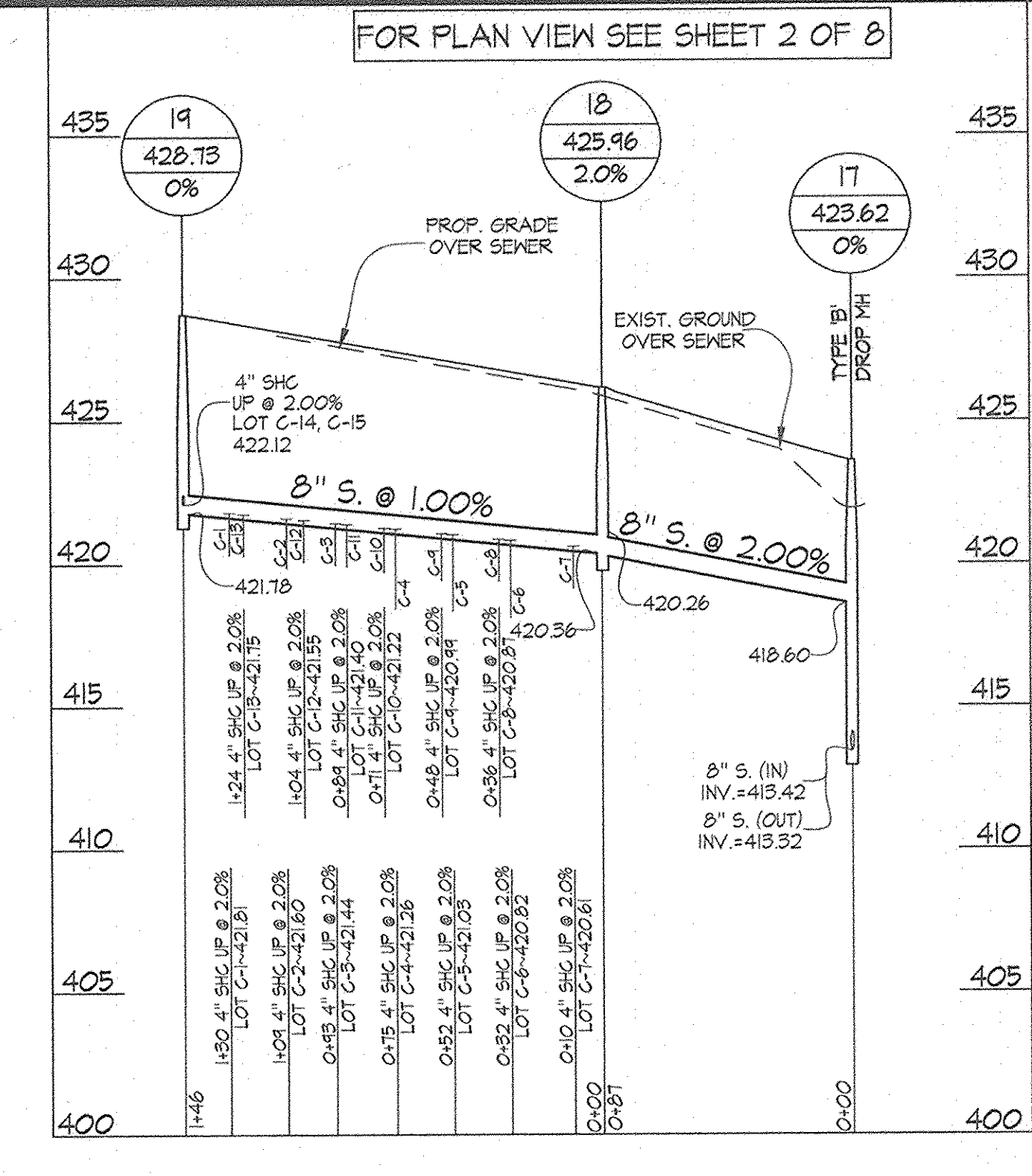
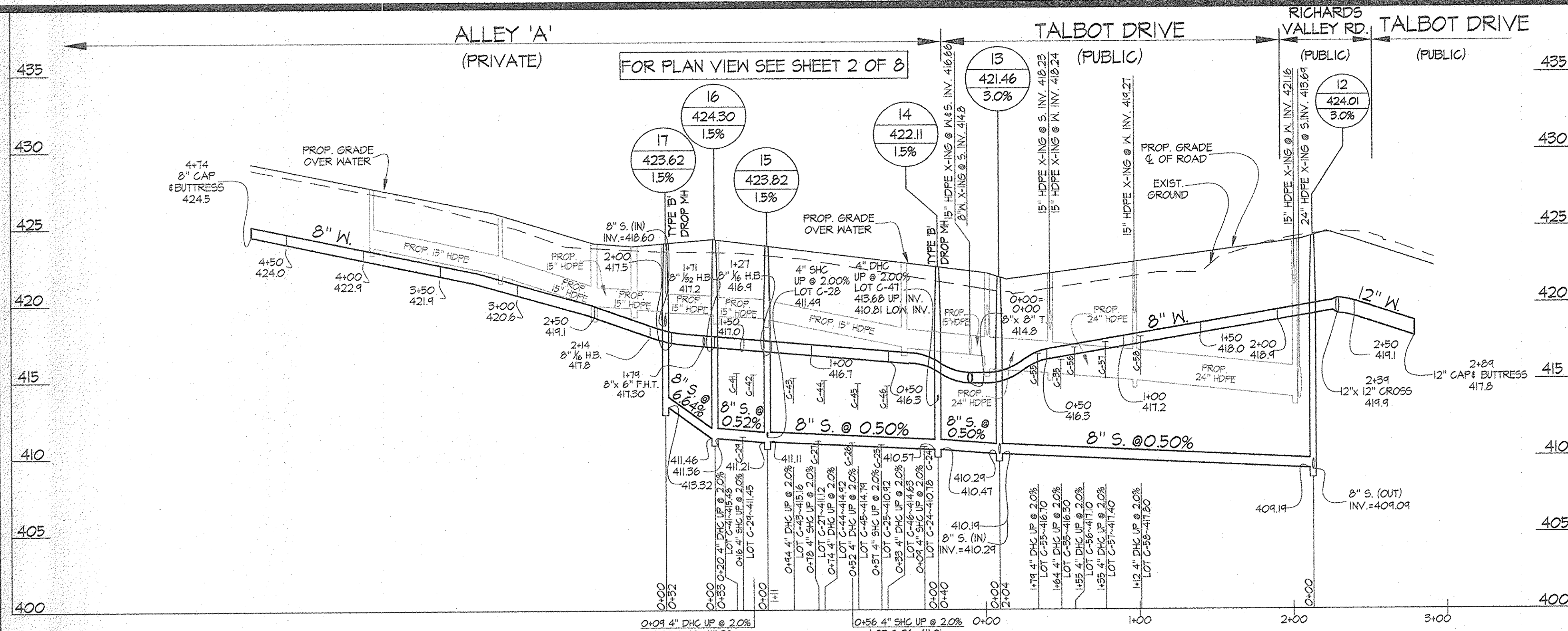
600' SCALE MAP NO. 37 BLOCK NO. 182

SHIPLEY'S GRANT - PHASE 1
LOTS C-1 THRU C-62, OPEN SPACE LOTS C-63 THRU C-65,
COMMON OPEN SPACE LOTS C-66 THRU C-69,
BUILDABLE PARCELS "A", "B" AND "C-70" THRU "C-72"
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 1

ZONING: R-A-15 CONTRACT No. 14-4355-D TAX MAP: 37 B-1

SCALE
AS
SHOWN

SHEET
5 OF 9

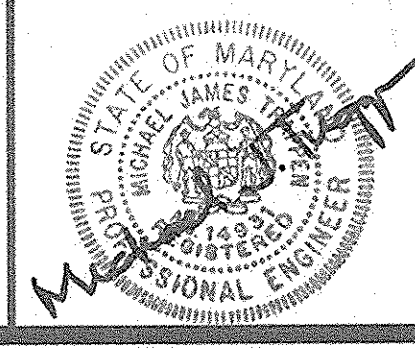


DEVELOPER:
BA WATERLOO TOWNHOMES, LLC
c/o BOZZUTO HOMES, INC.
1850 WALKER DRIVE SUITE 400
GREENBELT, MARYLAND 20712
ATTN: DUNCAN SLIDELL
301-623-1525

DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

GLWGUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3009 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 FAX: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



DES:	WS/J				
DRN:	MJT				
CHK:					
DATE:	MAY, 2007	BY	NO	REVISION	DATE

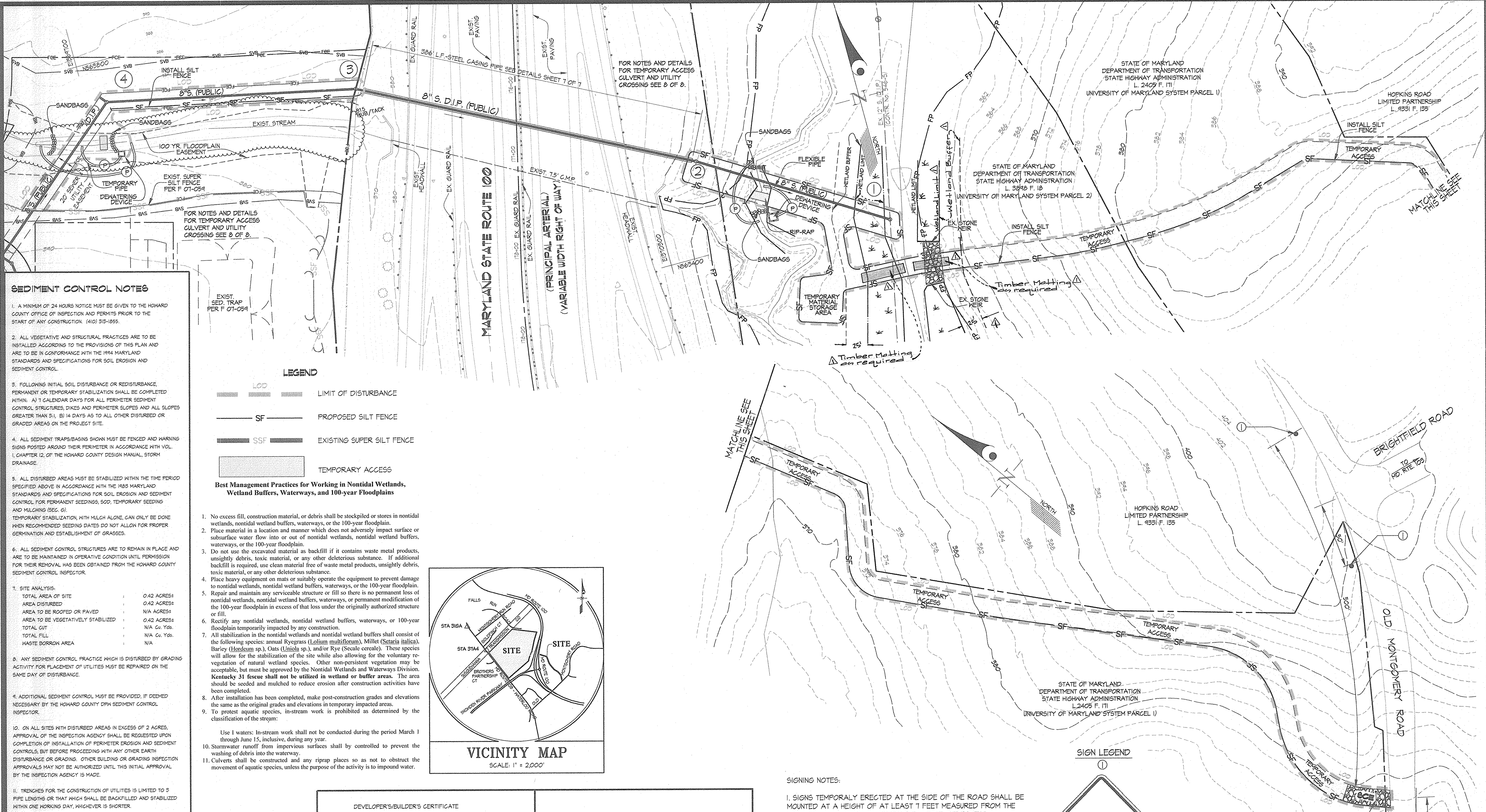
WATER and SEWER EXTENSION
PROFILES
SCALE: 1" = 50' VERT.
1" = 5' HORIZ.

600' SCALE MAP NO. 37 BLOCK NO. 142

SHIPLEY'S GRANT - PHASE 1
LOTS C-1 THRU C-62, OPEN SPACE LOTS C-63 THRU C-65,
COMMON OPEN SPACE LOTS C-66 THRU C-69,
BUILDABLE PARCELS "A", "B" AND "C-70" THRU "C-72"
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 1
ZONING: R-A-15 CONTRACT No. 14-4355-D TAX MAP: 51-B-1

SCALE
AS
SHOWN
SHEET
6 OF 7

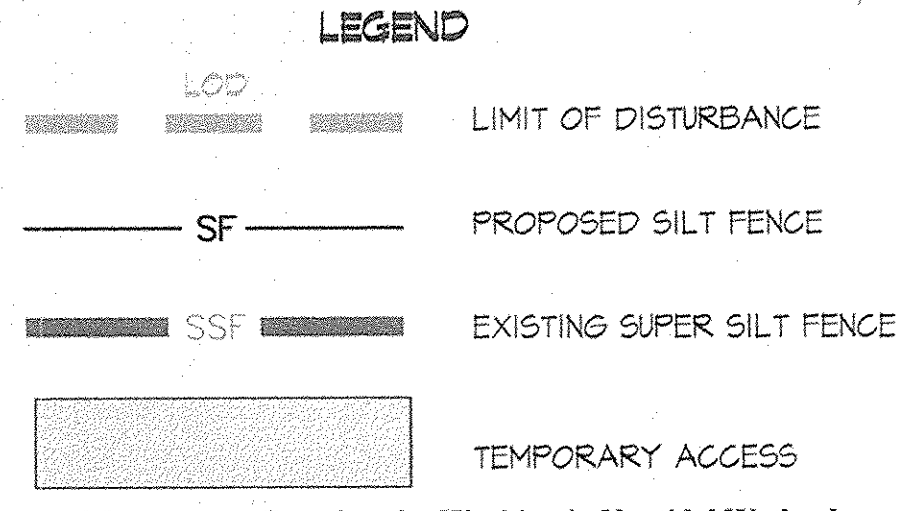
GLW FILE #03006
03006-FWS-01-PROF.dwg



SEDIMENT CONTROL NOTES

1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (410) 319-1855.
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES AND PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS, SO2, TEMPORARY SEEDING AND MULCHING (SEC. 6). TEMPORARY STABILIZATION WITH MULCH ALONE, CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS:

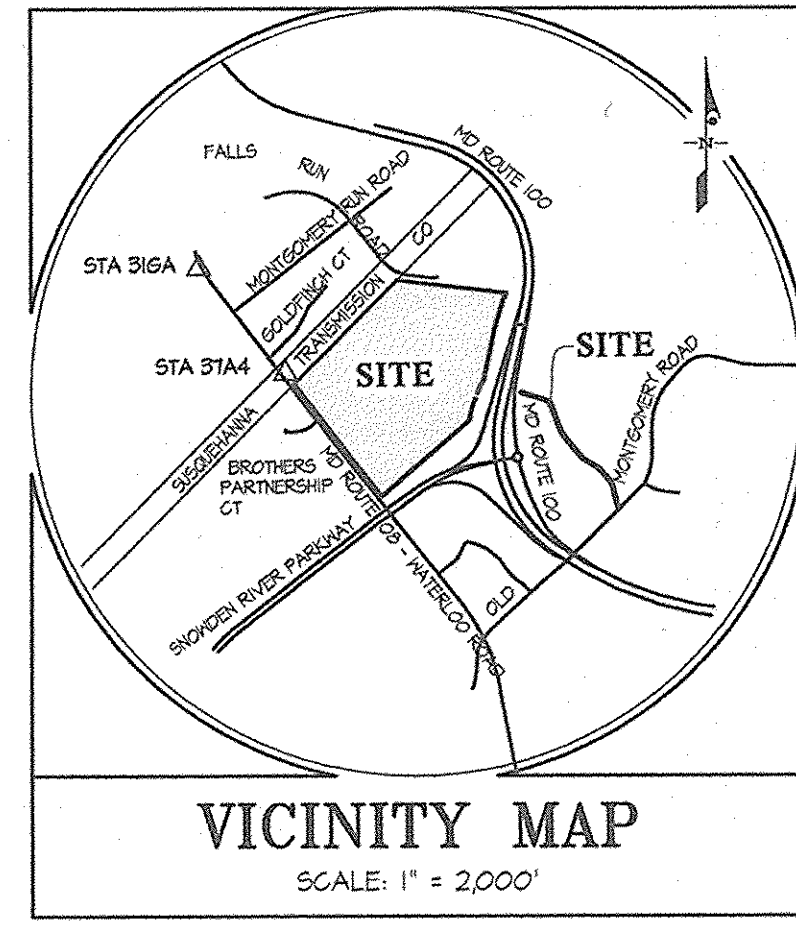
TOTAL AREA OF SITE	0.42 ACRES±
AREA DISTURBED	0.42 ACRES±
AREA TO BE ROOFED OR PAVED	N/A ACRES±
AREA TO BE VEGETATIVELY STABILIZED	0.42 ACRES±
TOTAL CUT	N/A CU. YDS.
TOTAL FILL	N/A CU. YDS.
WASTE BORROW AREA	N/A
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPA SEDIMENT CONTROL INSPECTOR.
10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO 3 PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



Best Management Practices for Working in Nontidal Wetlands, Wetland Buffers, Waterways, and 100-year Floodplains

1. No excess fill, construction material, or debris shall be stockpiled or stored in nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
2. Place material in a location and manner which does not adversely impact surface or subsurface water flow into or out of nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
3. 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.
4. 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.
5. Repair and maintain any serviceable structure or fill so there is no permanent loss of nontidal wetlands, nontidal wetland buffers, waterways, or permanent modification of the 100-year floodplain in excess of that loss under the originally authorized structure or fill.
6. Rectify any nontidal wetlands, nontidal wetland buffers, waterways, or 100-year floodplain temporarily impacted by any construction.
7. All stabilization in the nontidal wetlands and nontidal wetland buffers shall consist of the following species: annual Ryegrass (*Lolium multiflorum*), Millet (*Setaria italica*), Barley (*Hordeum sp.*), Oats (*Avena sp.*), and/or Rye (*Scaevola sp.*). 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.
8. After installation has been completed, make post-construction grades and elevations the same as the original grades and elevations in temporary impacted areas.
9. 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.
10. Stormwater runoff from impervious surfaces shall be controlled to prevent the washing of debris into the waterway.
11. 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.

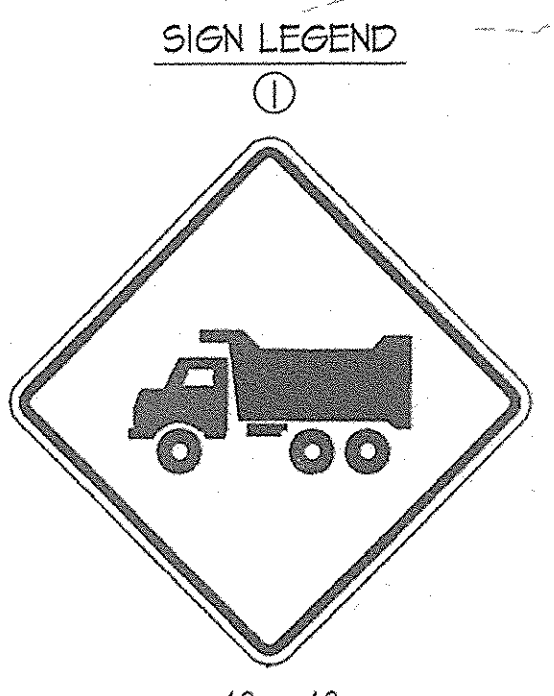


FOR NOTES AND DETAILS FOR TEMPORARY ACCESS CULVERT AND UTILITY CROSSING SEE 8 OF 8.

FOR NOTES AND DETAILS FOR TEMPORARY ACCESS CULVERT AND UTILITY CROSSING SEE 8 OF 8.

FOR NOTES AND DETAILS FOR TEMPORARY ACCESS CULVERT AND UTILITY CROSSING SEE 8 OF 8.

- SIGNING NOTES:**
1. SIGNS TEMPORARILY ERECTED AT THE SIDE OF THE ROAD SHALL BE MOUNTED AT A HEIGHT OF AT LEAST 7 FEET MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVING.
 2. ALL SIGN POSTS USED FOR TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE MOUNTED ON PRESSURE TREATED 4" x 4" x 12' WOODEN POSTS.
 3. SIGNS SHALL BE 12" TO 18" FROM EDGE OF SIGN TO CURBLINE.
 4. ALL SIGN LOCATIONS WITHIN THE PUBLIC RIGHT OF WAY SHALL BE APPROVED BY THE HOWARD COUNTY TRAFFIC DIVISION PRIOR TO ANY INSTALLATIONS.



48 x 48 MILL-10 (1)

GLW FILE #03006
03006-FWS-01SEC.dwg

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

John R. Whitton 5/15/07
HOWARD S.C.D. DATE

Jim Meyer 5/15/07
NATURAL RESOURCES CONSERVATION SERVICE DATE

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD."

Robert C. Anderson 5/15/07
Signature of Developer/Builder Date

ENGINEER'S CERTIFICATE

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Michael J. Trapp 5/15/07
Signature of Engineer Date

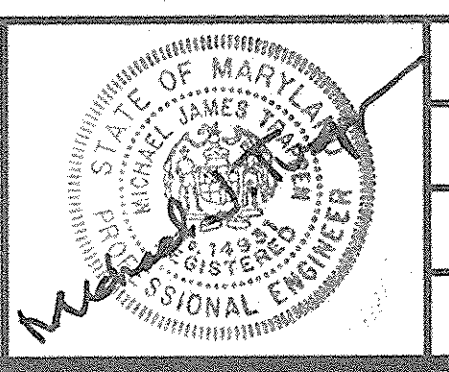
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Chief, Bureau of Utilities
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

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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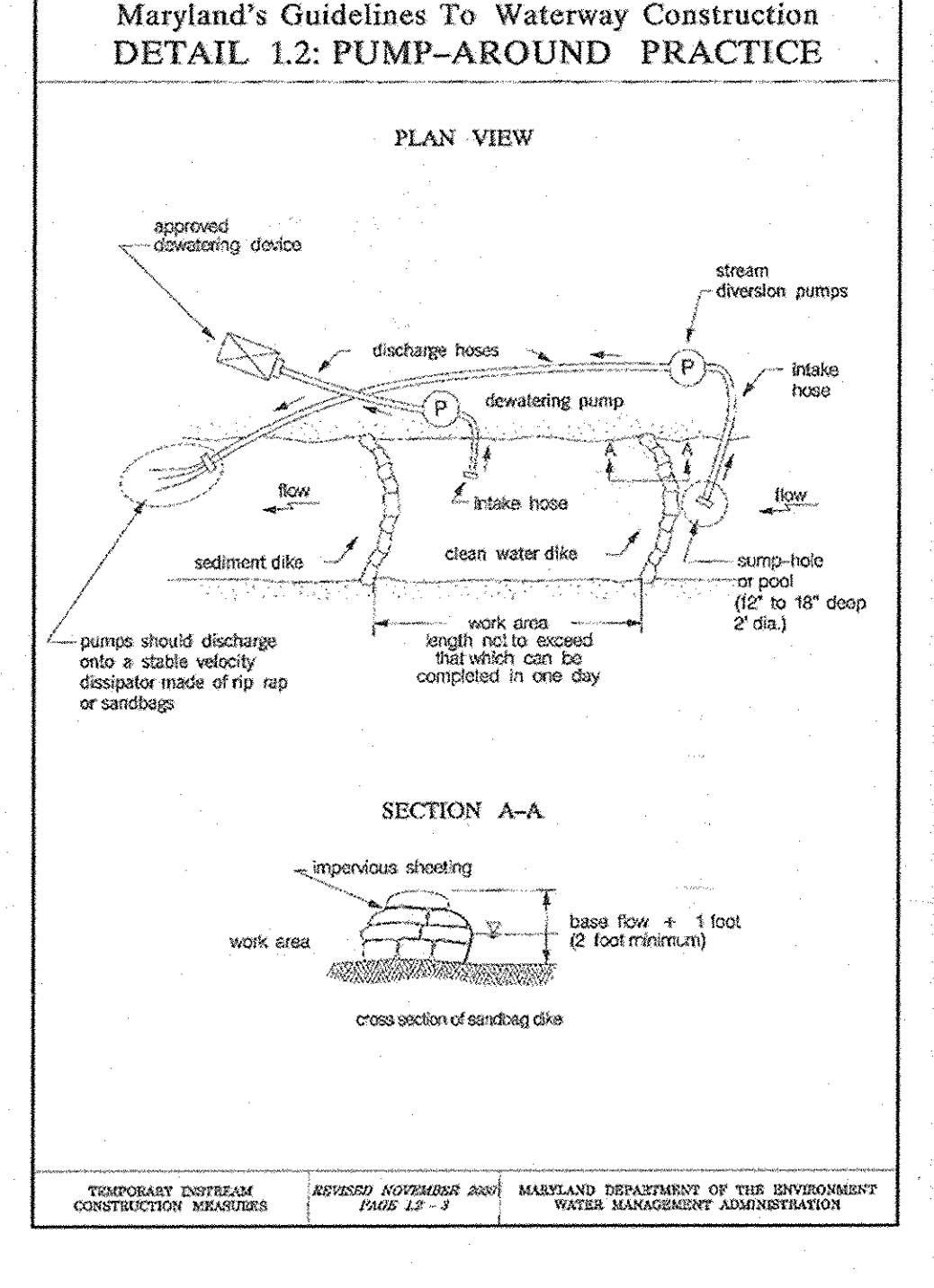
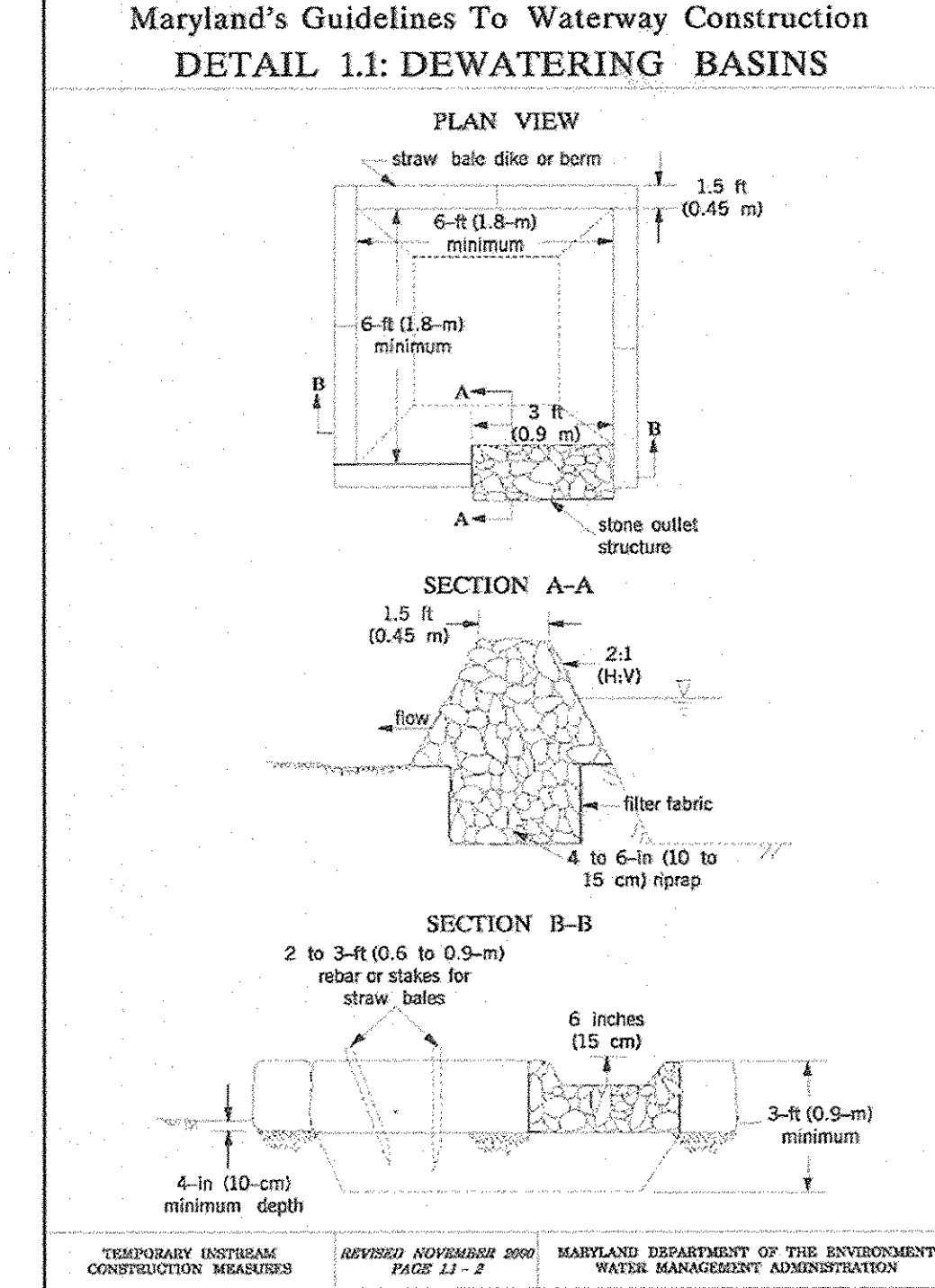
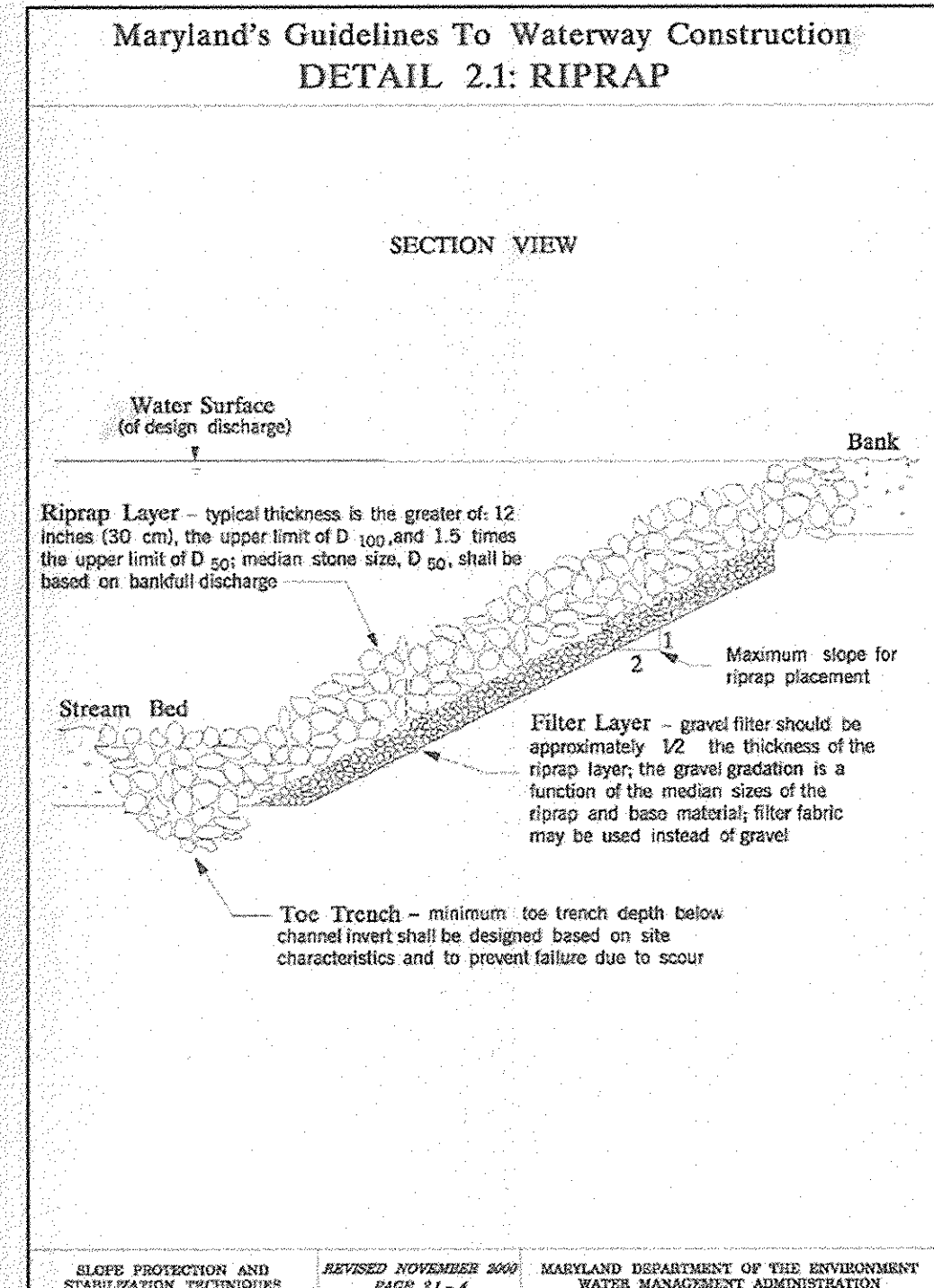
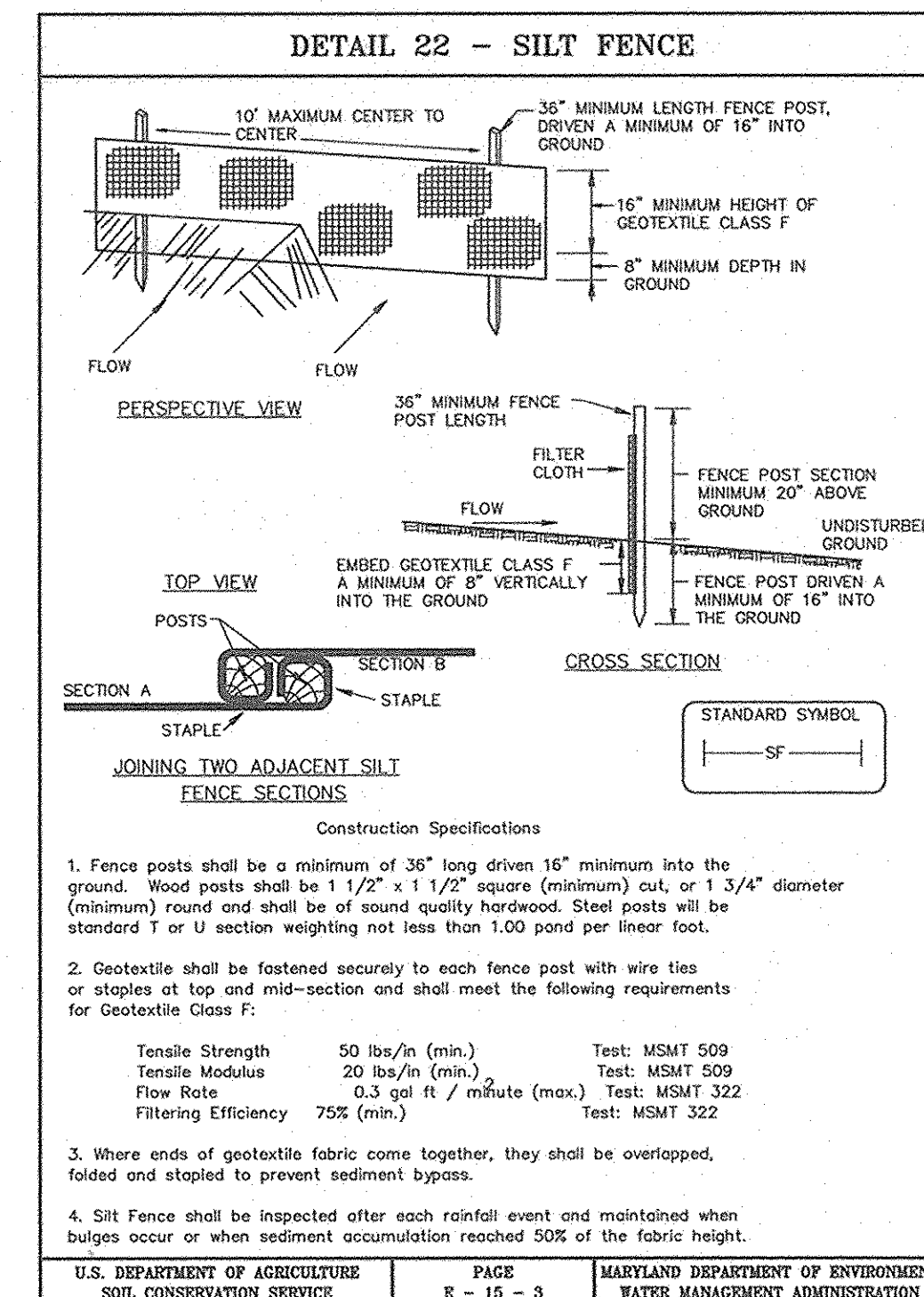
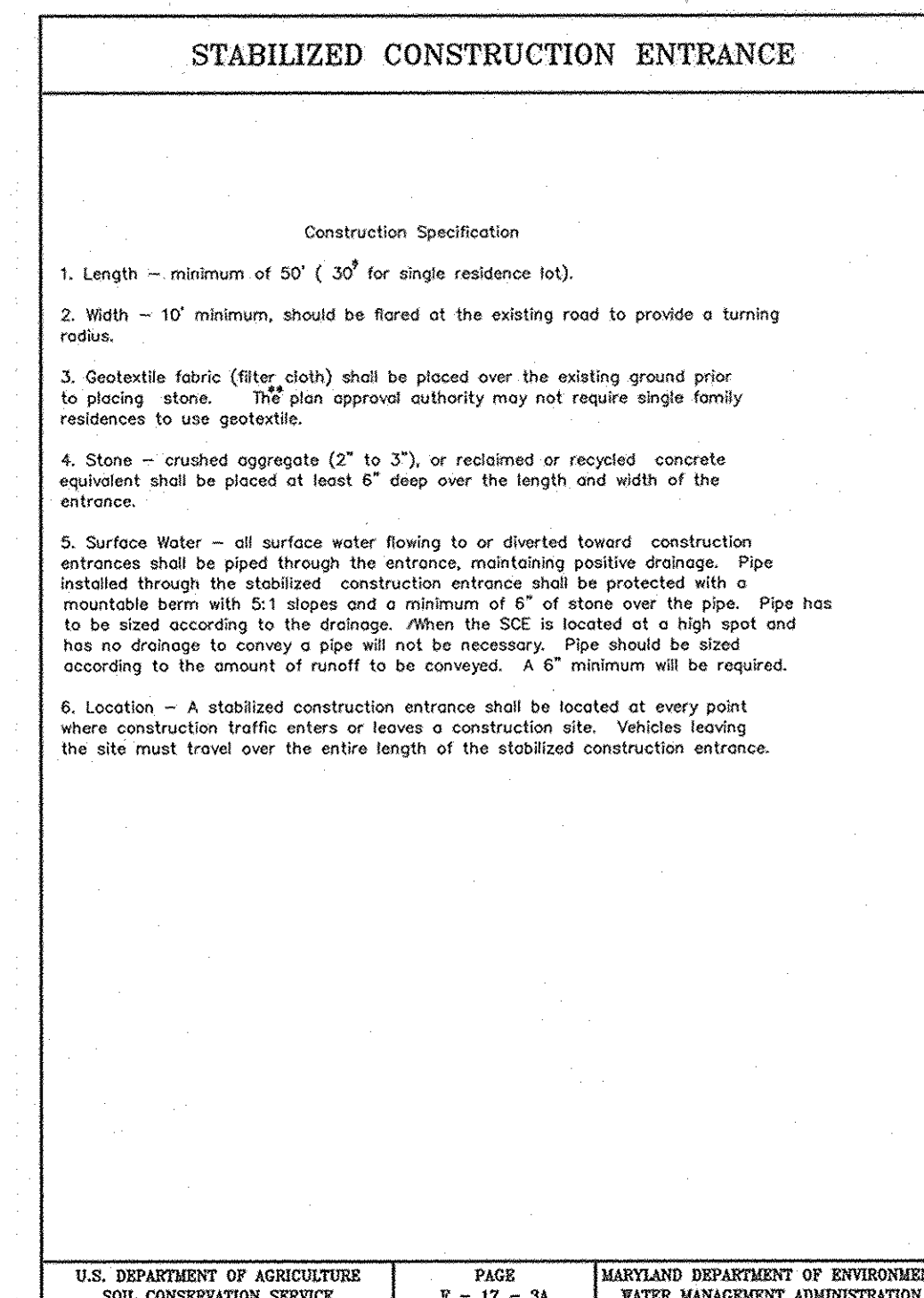
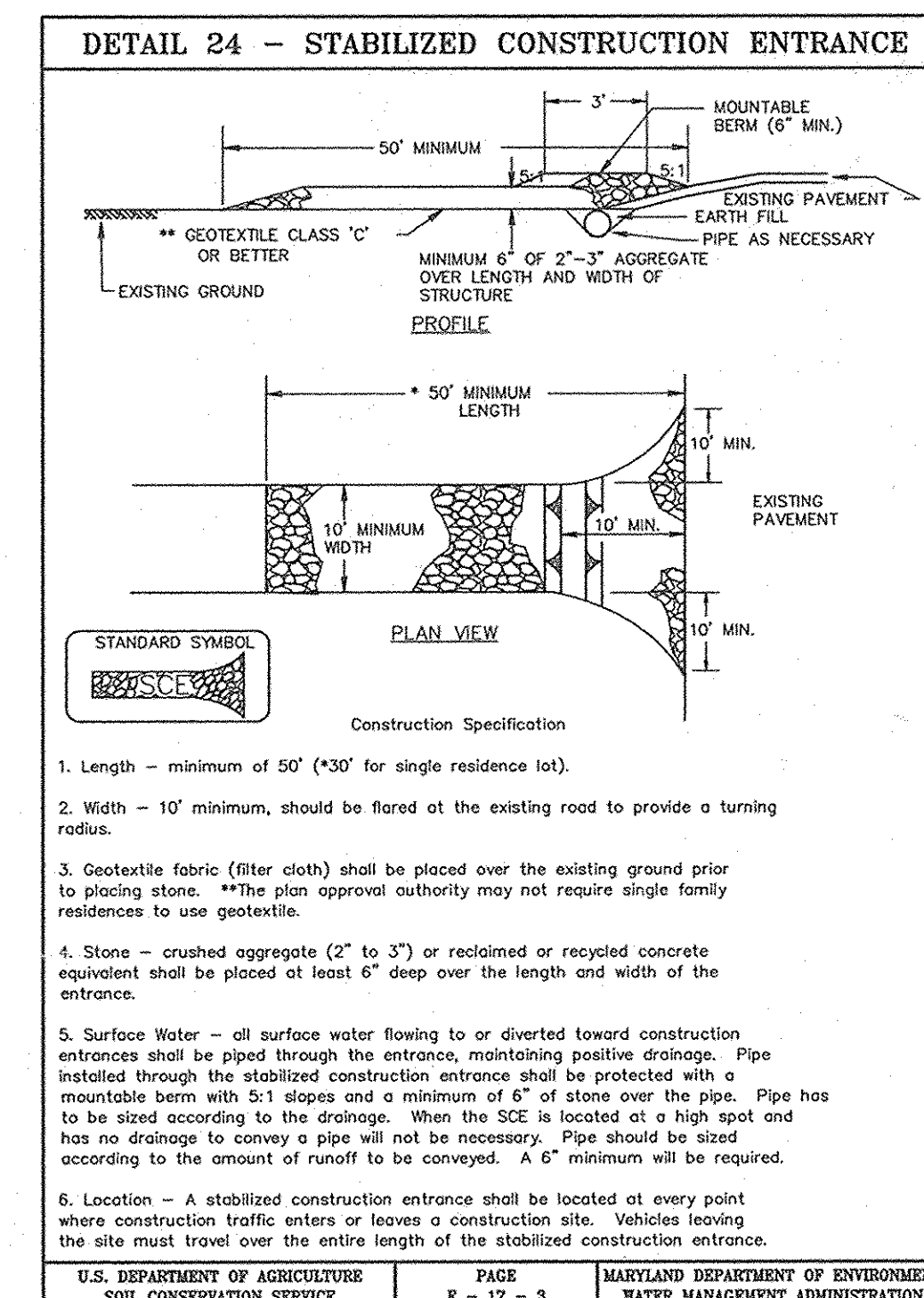
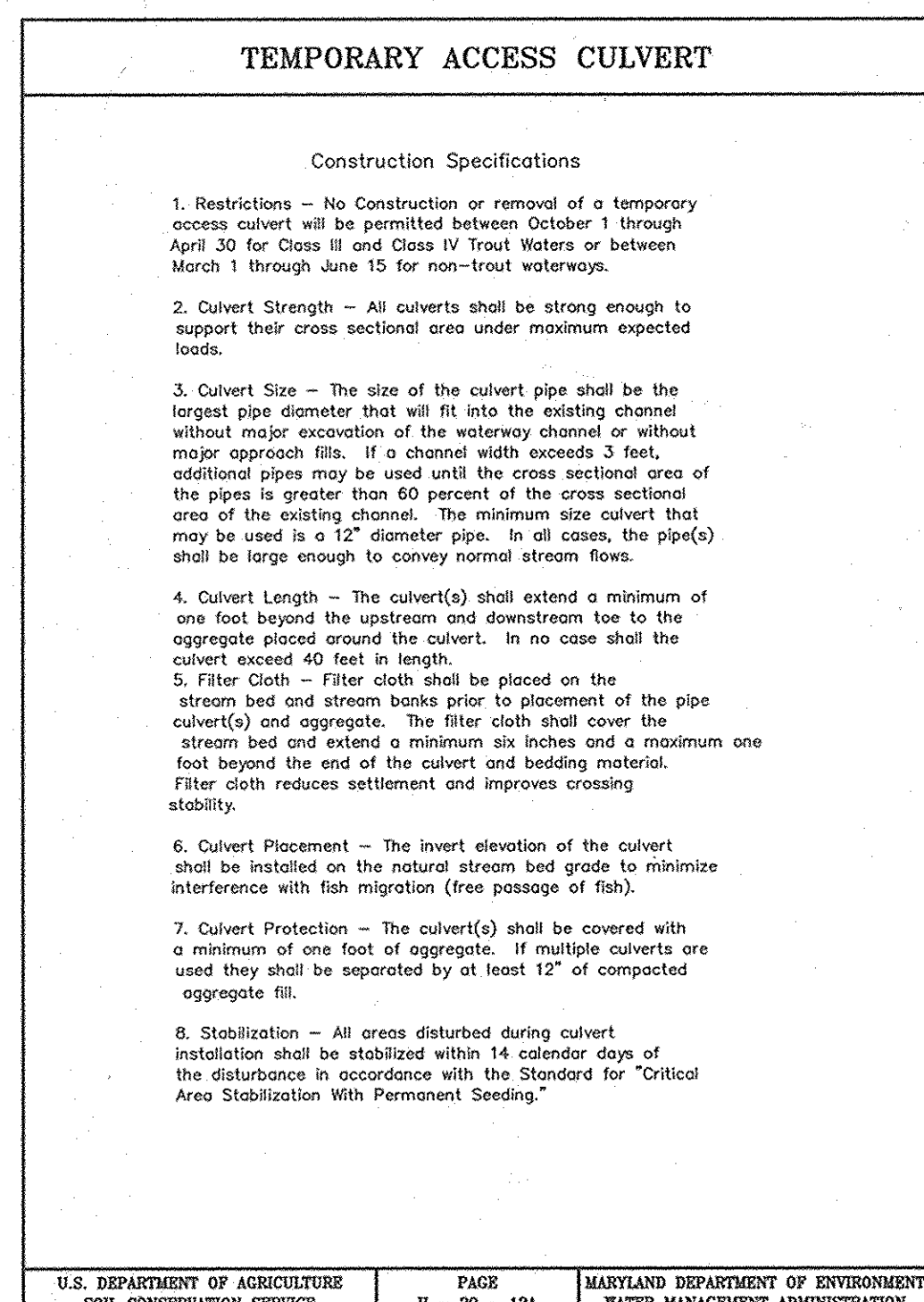
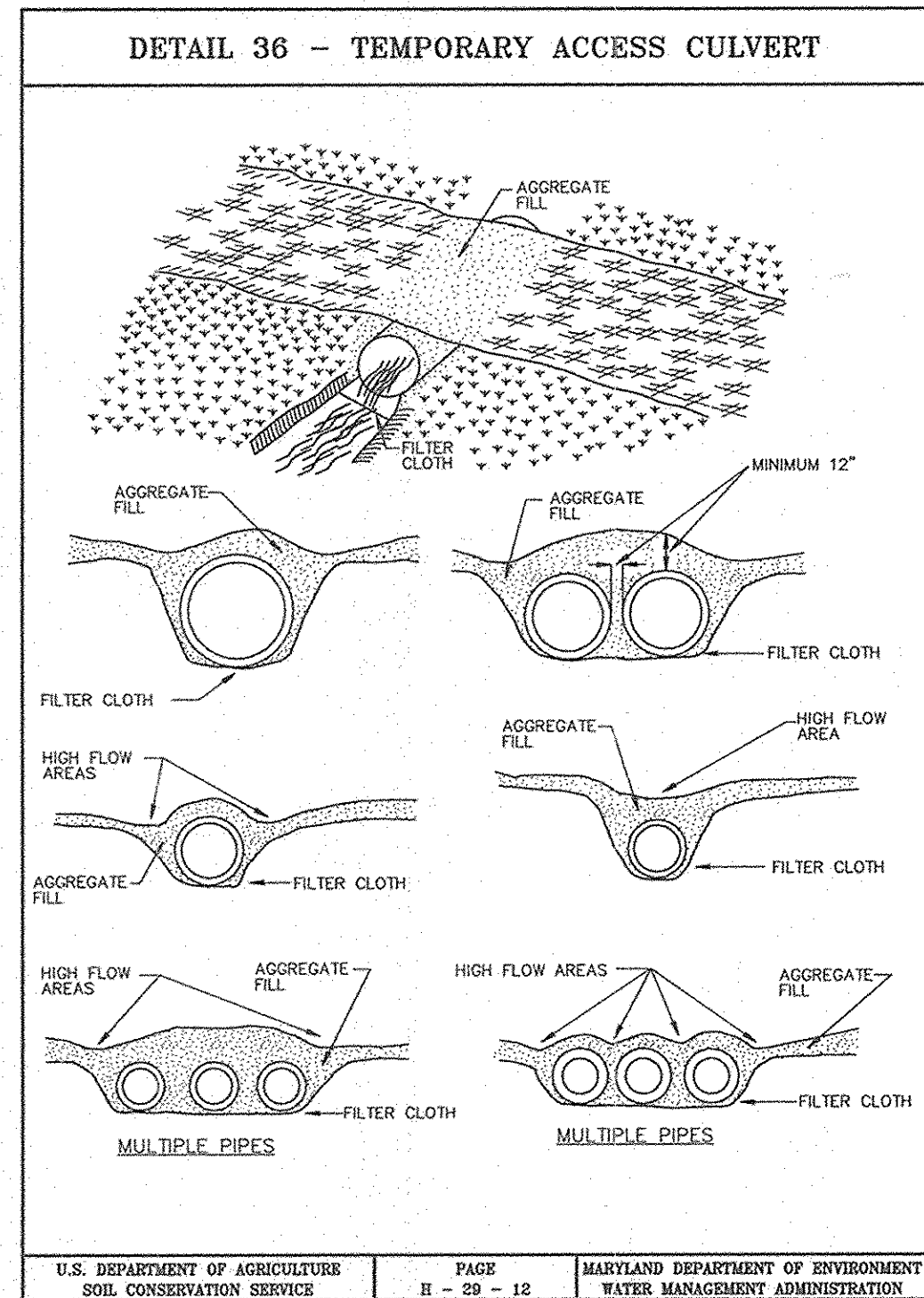
DES:	WJ				
DRN:	WJ				
CHK:	WJ				
MAY DATE:	2007				
BY:	NO	REVISION	DATE		

SEWER EXTENSION
SEDIMENT CONTROL
PLAN

600' SCALE MAP NO. 37 BLOCK NO. 142

SHIPLEY'S GRANT - PHASE 1
LOTS C-1 THRU C-62, OPEN SPACE LOTS C-63 THRU C-65
COMMON OPEN SPACE LOTS C-66 THRU C-69,
BUILDABLE PARCELS "A", "B" AND "C-70" THRU "C-72"
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 1
CONTRACT No. 14-4355-D TAX MAP: 37 B-1

SCALE AS SHOWN
SHEET 7 OF 9



PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCS OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY LOOSENED).

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 LBS/1000 SQUARE FEET) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (4 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 50-0-0 UNIFORM FERTILIZER (4 LBS/1000 SQ FT).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 LBS/1000 SQ FT) OF KEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1/2 TO 2 TONS PER ACRE (10 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GALL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 340 GALLONS PER ACRE (8 GALL/1000 SQ FT) FOR ANCHORING.

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

TEMPORARY SEEDING NOTES

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

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCS OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY LOOSENED).

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (8.2 LBS/1000 SQ FT). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF KEEPING LOVEGRASS (0.1 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1/2 TO 2 TONS PER ACRE (10 TO 90 LBS/1000 SQ FT) OF UNROTTED, NEED-FREE, SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GALL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT OR HIGHER, USE 340 GALLONS PER ACRE (8 GALL/1000 SQ FT) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT AND ARRANGE PRE-CONSTRUCTION MEETING WITH THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR (1 DAY).
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AT OLD MONTGOMERY ROAD. INSTALL SILT FENCE. ONLY DISTURB AS MUCH AREA AS NECESSARY ALONG THE ACCESS PATH PLACING ANY REMOVED MATERIAL UPWIND OF THE ACCESS PATH. INSTALL STREAM PUMP-AROUND THE WORK AREA AND DEWATER WORK AREA (1 WEEK).
- CONSTRUCT SEWER MAIN. DISTURB ONLY AS MUCH AREA AS CAN BE BACKFILLED AND STABILIZED IN ONE DAY (2 WEEKS).
- STABILIZE SEWER CONSTRUCTION AREA WITH GRASS SEED AND MULCH OR AS DIRECTED BY STATE HIGHWAY RESTORE THE ACCESS PATH TO BLEND WITH SURROUNDING GRADES AND STABILIZE WITH SEED AND MULCH OR AS DIRECTED BY STATE HIGHWAY (1 WEEK).
- UPON OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ALL REMAINING AREAS (2 DAYS).

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

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.

John K. Robertson 5/15/07
HOWARD S.C.D. DATE

Jim Mays 5/15/07
NATURAL RESOURCES CONSERVATION SERVICE DATE

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD."

Robert C. Anderson 5/9/07
Signature of Developer/Builder Date

ENGINEER'S CERTIFICATE

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Michael J. Troppan 5/9/07
Date

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John K. Robertson 5/16/07
BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Robert C. Anderson 5/16/07
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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



DES: _____					
DRN: _____					
CHK: <i>MT</i>					
DATE: MAY, 2007	BY: NO	REVISION:	DATE:	600' SCALE MAP NO. 37	BLOCK NO. 142

SEWER EXTENSION
SEDIMENT CONTROL
DETAIL SHEET

SHIPLEY'S GRANT - PHASE 1
LOTS C-1 THRU C-62, OPEN SPACE LOTS C-63 THRU C-65
COMMON OPEN SPACE LOTS C-66 THRU C-69,
BUILDABLE PARCELS "A", "B" AND "C-70" THRU "C-72"
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT NO. 1
CONTRACT No. 14-4355-D TAX MAP: 37 B-1

SCALE AS SHOWN
SHEET 8 OF 9

