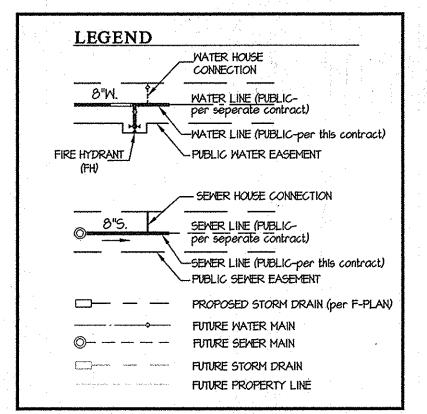
| • | Q | UANTITIES | | |
|--|---------------------------------------|------------|--------------|---------------------------|
| ······································ | OLIANITITICO | AS-BUILT | | |
| ITEMS | QUANTITIES ESTIMATED | QUANTITIES | TYPE | MANUFACTURER/ SUPPLIER |
| | | | | |
| 12" D.I.P. WATER MAIN | 1,985 L.F. | 2037 L.F. | CL 54 | Atlantic States |
| 8" D.I.P. WATER MAIN | 561 L.F. | 563 L.F. | CL 54 | ATLANTIC STATES |
| 6" D.I.P. WATER MAIN | 341 L.F. | 338 L.F. | CL 54 | ATLANTIC STATES |
| 1 1/2" WHC | 888 L.F. | 1104 L.F. | TYPE K | MUCLLER INDUSTRIES |
| 12" Yalve | · · · · · · · · · · · · · · · · · · · | 2 | GATE | AMERICAN FLOW |
| 12"x8" TEE | I EA. | I EA. | NJ | TYLER /UNION |
| 12"x6" TEE | I EA. | 1 EA. | MJ | TYLER UNION |
| 12"x6" FHT | 3 EA. | 2. 巨人, | LM | TYLER/UNION |
| 12" 1/8 HB | 2 EA. | 2 EA. | LW | TYLER JUNION |
| 12" I/I6 HB | 8 EA. | G EA. | мЈ | TYLER/UNION |
| 8" VALVE | | 1 EA. | GATE | AMERICAN FLOW |
| 8"x6" TEE | I EA. | 1 EA. | МЗ | TYLER/UNION |
| 8" I/16 HB | I EA. | I EA. | MJ | TYLER/UHION |
| 8"x6" FHT | I EA. | 2 EA. | MJ | TYLER UNION |
| 6" VALVE | | C EA. | GATE | AMERICAN FLOW |
| 8" SEWER MAIN DIP | | 354 L.F. | CLASS 54 DIP | ATLANTIC STATES |
| 8" SEWER MAIN | 2250 L.F. | 211G L.F. | PVC | NORTH AMERICAN |
| SEWER MANHOLES | 19 EA. | 20 EA. | PRE - CAST | ATLANTIC CONCRETE |
| PIRE HYDRANTS | 4 EA. | 4 EA. | CENTURION | MUELLER INPUSTRIES |
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| NAME OF UTILITY CON | TO MOTOD A | ay d son | | |



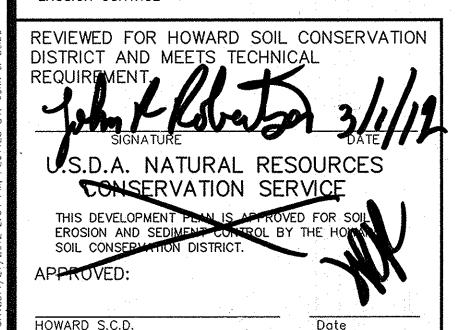
SHEET INDEX - WATER & SEWER TITLE SHEET - WATER & SEWER PLAN - WATER & SEMER PLAN 4 - WATER & SEMER PROFILES 5 - WATER & SEWER PROFILES

AS-BUILT DATE:.

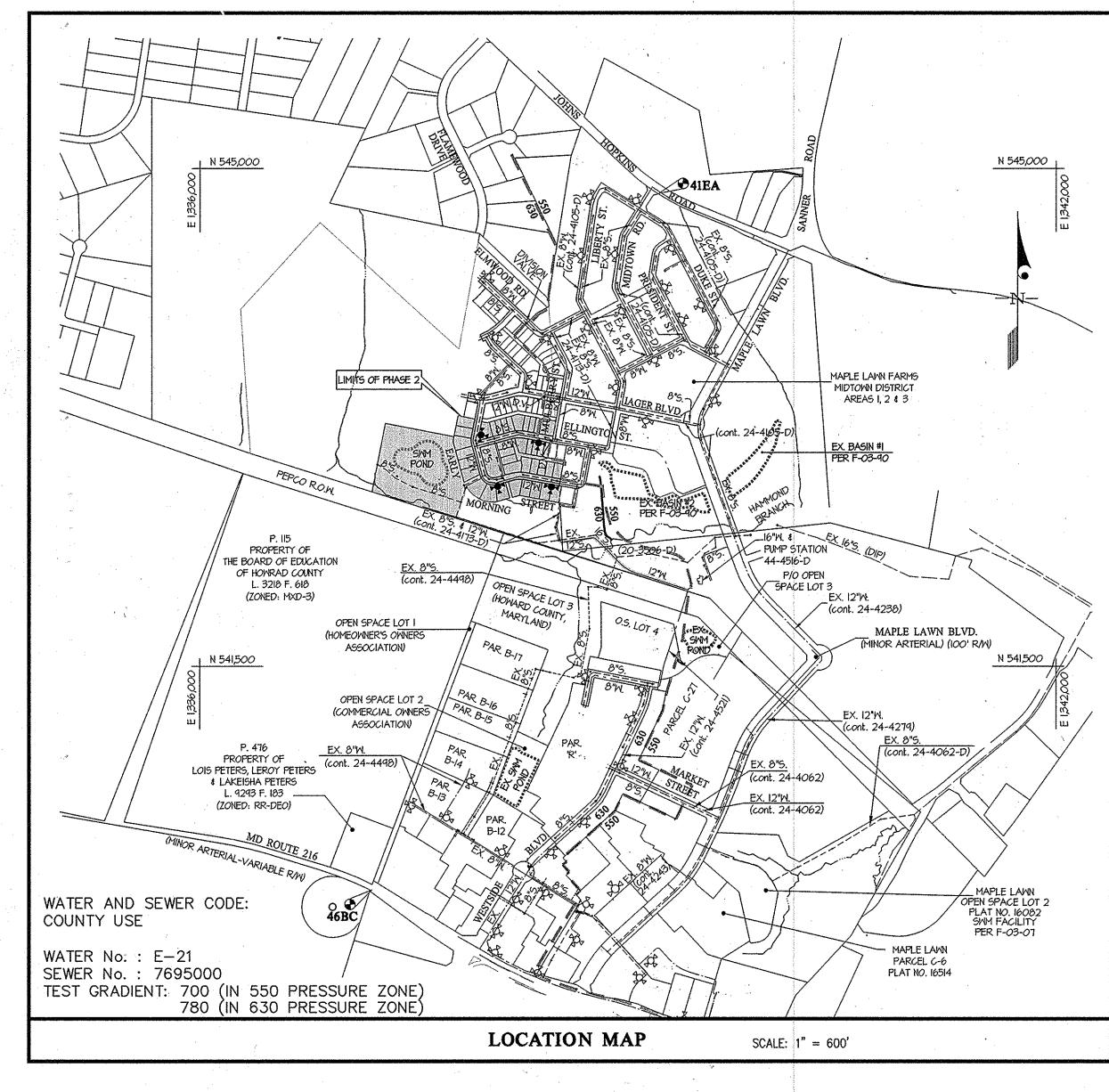
11-13-12

DRAFTING DIV.

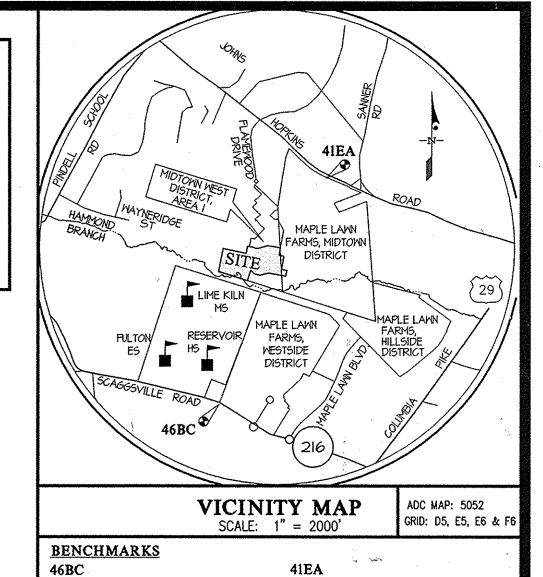
SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH ROAD DRAWINGS F 12-30 FOR SEDIMENT AND EROSION CONTROL



CONTRACT No. 24-4702-D MAPLE LAWN FARMS MIDTOWN WEST DISTRICT - AREA 1 (PHASE II) HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS



RESIDENTIAL TYPE OF BUILDING NUMBER OF W.H.C.'s SEWER SHED PUMPING STATION



ELEV. = 472.16 ELEV. = 407.05 N = 539,925.13 E=1,337,205,77 N = 544,025.81 E= 1,339,217,44 STANDARD DISC ON CONCRETE MONUMENT STANDARD DISC ON CONCRETE MONUMENT

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.

2. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED DURING MARCH 1997 BY 3DI. 3. HORIZONTAL AND VERTICAL SURVEY CONTROLS:

GENERAL NOTES

THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO.46BC AND NO. 4IEA. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE STANDARD DISCS ON

4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

5. CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-O" 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.

6. 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 YOLUME IV ON THE JOB.

7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL A 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.

8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

1-800-252-1133 BGE (CONTRACTOR SERVICES)... 410-637-8713 BGE (EMERGENCY).. 410-685-0123 BUREAU OF UTILITIES .. 410-313-4900 410-795-1390 COLONIAL PIPELINE CO.. 1-800-257-7777

STATE HIGHWAY ADMINISTRATION...... 410-531-5533 1-800-743-0033 / 410-224-9210 9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.

IO. 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.

II. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(A) OF THE HOWARD

ALL WATER MAINS SHALL BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED. 2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.

3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.

5. 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.

6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM 7. TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP WATER MAINS IN ACCORDANCE WITH THE HOWARD

1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.

2. ALL MANHOLES SHALL BE 4'-OA INSIDE DIAMETER UNLESS OTHERWISE NOTED. 3. FORCE MAINS SHALL BE D.I.P. ONLY.

4. MANHOLES SHOWN WITH 124 AND 164 WALLS ARE FOR BRICK MANHOLES ONLY.

5. 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'-64 ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED

6. HOUSE(S) WITH THE SYMBOL @C.N.S.A INDICATES THAT THE CELLAR CANNOT BE SERVED.

PREPARED FOR: GREENEBAUM DEVELOPMENT, INC. SUITE 300 WOODHOLME CENTER 1829 REISTERSTOWN ROAD BALTIMORE, MD 21208 ATTN: MARK BENNETT 410-484-8400

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

Sthe Clem CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

DATE LA C LYCADO/DRANNACS/09001/NS/FINAL/PHASE 2 (24-4702-0)/09001-PHASE 2 FINS-CS.dng DES. DEV DRN. KLP CHK. DEV

GLW GUTSCHICK LITTLE & WEBER, P.A. 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: 301-421-4186

JANUARY

PROFESSIONAL CERTIFICATION WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12975 EXP. DATE: MAY 26, 2012



LEM A "QUANTITIES" TABLE DATE 600' SCALE MAP NO. 41 BLOCK NO. 15 & 21

WATER and SEWER TITLE SHEET

MAPLE LAWN FARMS CONTRACT No. 24-4702-D MIDTOWN WEST DISTRICT - AREA 1 (PHASE II) LOTS 39 thru 49, 52 thru 65, 67 thru 80

and OPEN SPACE LOTS 85 and thru 87 HOWARD COUNTY, MARYLAND ELECTION DISTRICT No. 5

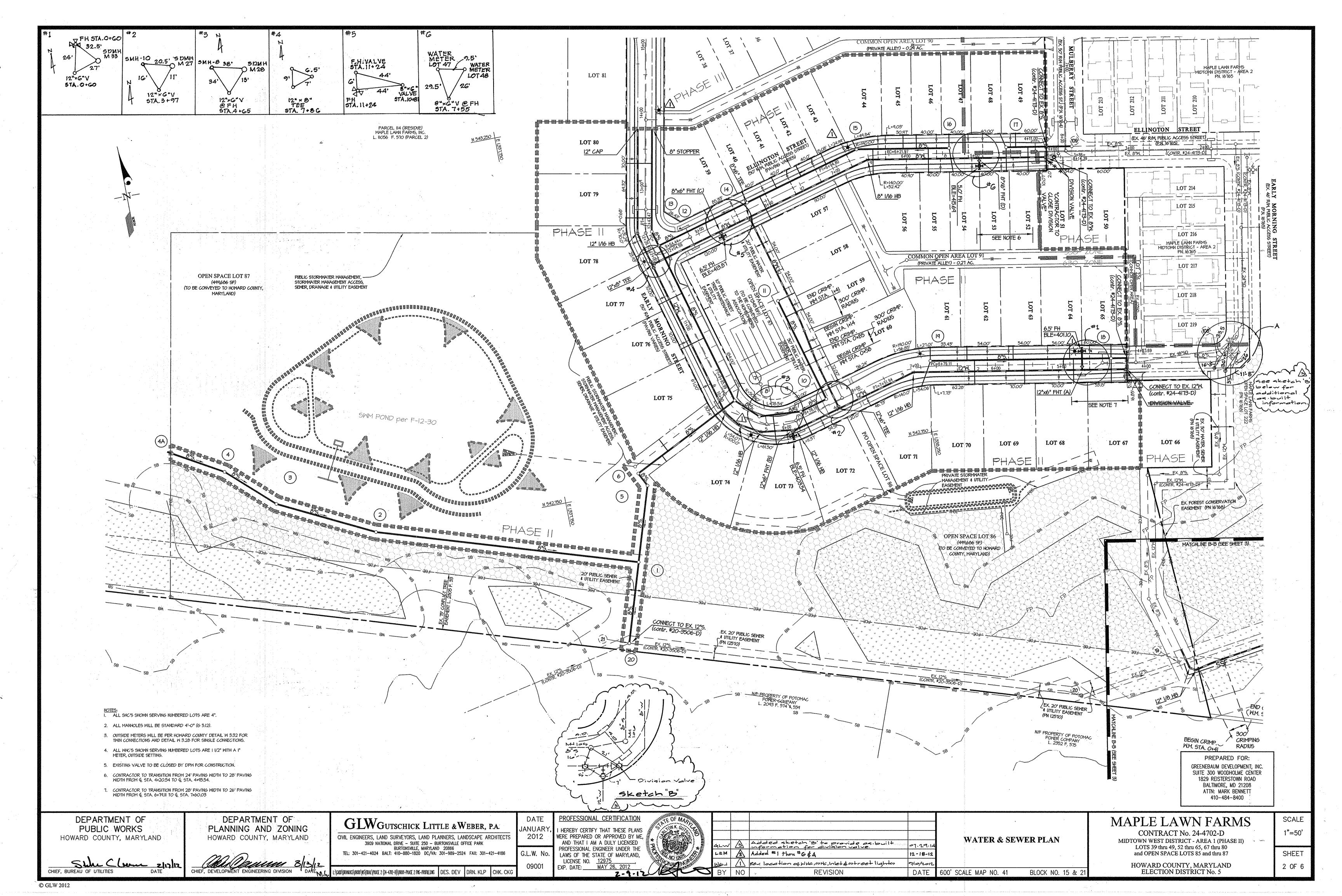
© GLW 2012

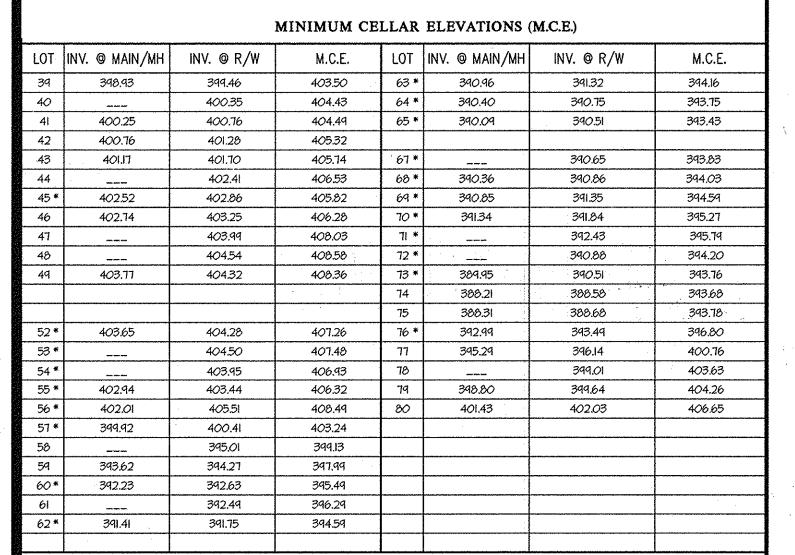
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1 OF 6





*-DENOTES SHO'S WHICH NEED TO BE RUN AT 1.0%. ALL OTHER SHO'S TO BE RUN AT 2.0%

| | | SEWER MANHO | LE INF | ORMATION | | |
|----|--------------|----------------|--------|--------------|----------------|--|
| МН | LOCA | LOCATION MH | | LOCATION | | |
| l | N 542,653.20 | E 1,337,830.81 | 14. | N 543,100.07 | E 1,338,065,53 | |
| 2 | N 542,760.10 | E 1,337,492.94 | 15 | N 543,142.59 | E 1,338,222.88 | |
| 3 | N 542,834.45 | E 1,337,383.95 | 16 | N 543,120.70 | E 1,338,344.95 | |
| 4 | N 542,915.75 | E 1,337,245.II | 17 | N 543,107.22 | E 1,338,420.II | |
| 5 | N 542,751.82 | E 1,337,862.00 | 18 | N 542,801.59 | E 1,338,504.16 | |
| 6 | N 542,770.13 | E 1,337,852.97 | 19 | N 542,844.31 | E 1,338,265.43 | |
| 7 | N 542,841.97 | E 1,337,998.55 | | | | |
| 8 | N 542,814.59 | E 1,338,026.84 | | | : | |
| 9 | N 542,810.51 | E 1,338,082.67 | | | : | |
| 10 | N 542,820.43 | E 1,338,119.35 | | | · | |
| II | N 542,962.56 | E 1,338,080.94 | | | | |
| 12 | N 543,065.63 | E 1,337,938.10 | | | : | |
| 13 | N 543,086.19 | E 1,337,432.55 | | | | |

| PRINCIPAL TO THE PART OF THE P | SER | EX. PRELIC FOREST CONSERVATION EASEMENT EASEMENT EASEMENT (PN 20348) EX. PRELIC FOREST CONSERVATION EASEMENT (EASEMENT (PN 20348)) EX. PRELIC FOREST CONSERVATION EASEMENT (EASEMENT (PN 20348)) EX. 20' PRELIC MATER (FN 20348) FIN 20346) EX. 20' PRELIC MATER (FN 20348) FOR CONNECT TO EX. 12"M. (CONT. #44-4521-D) EX. VALVE TO BE SHUT BY DPW FOR |
|--|---|--|
| | | N 542000 TE RESTRUCTION RESTRICTION RESTRI |
| | | 2. N 38.37 1 Sam On 19 19 19 19 19 19 19 19 19 19 19 19 19 |

| FITTING INFORMATION | | | | | | | |
|---------------------|---------------|--------------|----------------|--|--|--|--|
| W.M. STATION | FITTING | LOCATION | : | | | | |
| EARLY MORNING | STREET | | | | | | |
| 2+86 | 12" 1/16 HB | N 542,633.58 | E 1,338,240.82 | | | | |
| 3+97 | 12"x6" TEE | N 542,804.70 | E 1,338,133.96 | | | | |
| 4+62 | 12" 1/16 HB | N 542787.74 | E 1338071.21 | | | | |
| 5+08 | 12" 1/16 HB . | N 542,793.71 | E 1,338,025.06 | | | | |
| 5+40 | 12" 1/16 HB | N 542,809.76 | E 1,337,997.13 | | | | |
| 5+65 | 12" I/16 HB | N 542,828.86 | E 1,337,982.41 | | | | |
| 7+86 | 12"x8" TEE | N 543,042.34 | E 1,337,924.12 | | | | |
| 8+32 | 12" I/16 HB | N 543,087.60 | E 1,337,913.46 | | | | |
| | | | | | | | |
| | | : | | | | | |
| ELLINGTON STRE | ET | | | | | | |
| 9+04 | 8" 1/16 HB | N 543,126.19 | E 1,338,235.02 | | | | |
| 10+80 | 8"x6" TEE | N 543,080.16 | E 1,338,064.70 | | | | |
| i2+25 | 12"x8" TEE | N 543,042.34 | E 1,337,924.72 | | | | |
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| FITTING INFORMATION | | | | | | | |
|---------------------|-------------|--------------|----------------|--|--|--|--|
| W.M. STATION | FITTING | LOCATION | | | | | |
| WATERLINE 'A' | | | | | | | |
| 0+27 | 12" 1/8 HB | N 542,372.69 | E 1,338,528.12 | | | | |
| 0+36 | 12" I/8 HB | N 542,368.28 | E 1,338,536.17 | | | | |
| 2+61 | 12" 1/16 HB | N 542,401.36 | E 1,338,758.69 | | | | |
| 2+70 | 12" I/16 HB | N 542,399.17 | E 1,338,767.06 | | | | |

FIRE HYDRANT TEE INFORMATION LOCATION (A) N 542,793.69 E 1,338,463.24 (B) N 542,788.22 . E 1,338,067.45 (C) N 543,061.43 E 1,338,024.57

(D) N 543,099.84 E 1,338,381.96

PREPARED FOR: GREENEBAUM DEVELOPMENT, INC. SUITE 300 WOODHOLME CENTER 1829 REISTERSTOWN ROAD BALTIMORE, MD 21208 ATTN: MARK BENNETT 410-484-8400

DEPARTMENT OF DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

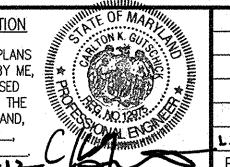
CHIEF, BUREAU OF UTILITIES

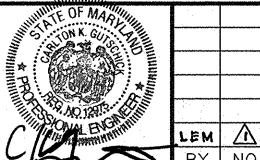
PLANNING AND ZONING HOWARD COUNTY, MARYLAND

| GLWGUTSCHICK LITTLE &WEBER, P.A. | |
|---|---|
| CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECT | S |
| 3909 NATIONAL DRIVE — SUITE 250 — BURTONSVILLE OFFICE PARK | |
| BURTONSVILLE, MARYLAND 20866 | |

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS
WERE PREPARED OR APPROVED BY ME,
AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MARYLAND,
LICENSE NO. 12975
EXP. DATE: MAY 26, 2012

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| LEM | \triangle | ADDED CTS | | 12-17-12 | | |
| Z A | NO | REVISION | | DATE | 600' SCALE MAP NO 41. | BLOCK NO 15 & |

FOR SEDIMENT CONTROL USE ONLY

MAPLE LAWN FARMS

CONTRACT No. 24-4702-D MIDTOWN WEST DISTRICT - AREA 1 (PHASE II)
LOTS 39 thru 49, 52 thru 65, 67 thru 80
and OPEN SPACE LOTS 85 and thru 87

EX. 30' PUBLIC WATER,
STORM DRAIN & UTIKITY
EASEMENT

SHEET 3 OF 6

SCALE

1"=50'

© GLW 2012

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EX. PUBLIC 100 YR
FLOODPLAIN, DRAINAGF
& UTILITY EASEMENT
(PN 16092)

1. sheet a of this plan set for detail of Mawa 1.2. 2. See F12.30 for sediment control devices.

EX. 20' BUBLIC SENER/& UTILITY EASEMENT (PN 20348)

EX. PUBLIC FOREST CONSERVATION EASEMENT

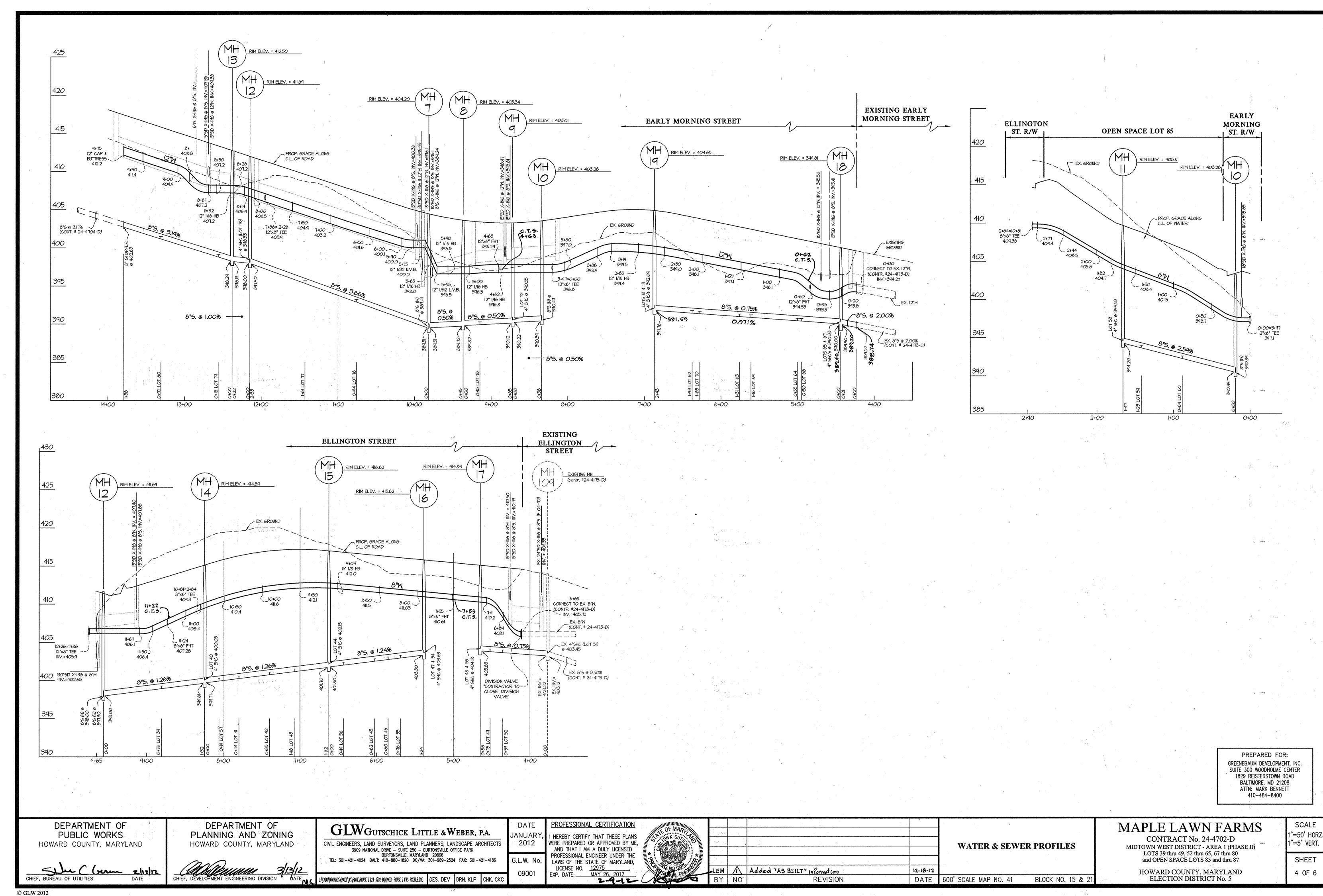
OPEN SPACE LOT 341 MAPLE LAWN FARMS HILLSIDE DISTRICT - AREA 4 (RN 20348)

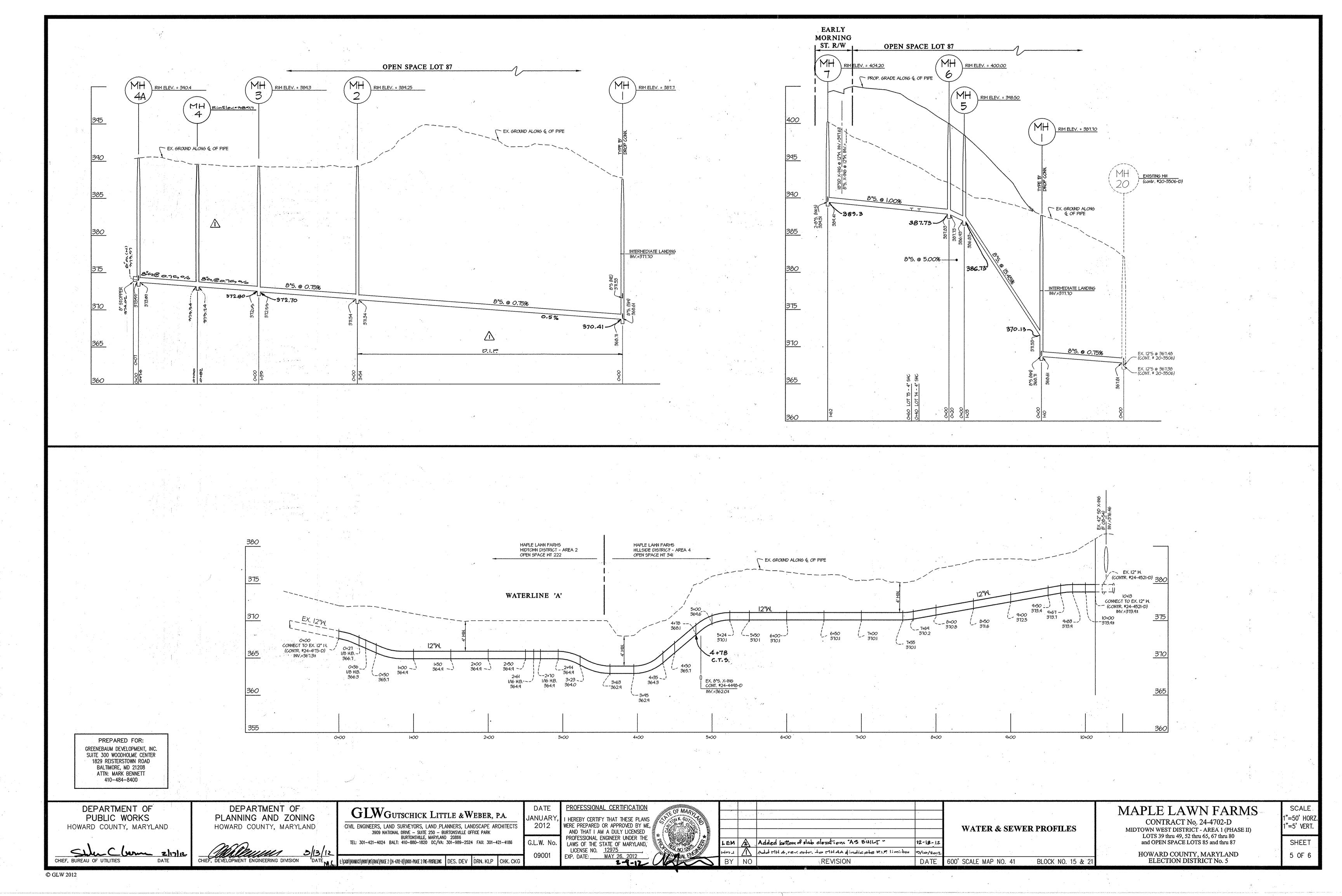
EX 20' PUBLIC WATER

UTILITY EASEMENT

CONSTRUCTION "

HOWARD COUNTY, MARYLAND ELECTION DISTRICT No. 5





| AS-BUILT INFORMATION | | | |
|---|--|--|--|
| WATER HOUSE SEWER HOUSE CONNECTION AS BUILT CONNECTION AS BUILT | | | |
| LOT ADDRESS LOCATION DIM. 1 LOCATION DIM. 2 LOCATION DIM. 1 LOCATION DIM. 2 | | | |
| 39 ELLINGTON STREET 59' TO LOT 575HC 47' TO LOT 40 WHC 37.5' TO LOT 39WHC 83.5' TO LOT WHO 40 18.5' TO LOT 41 5HC 43.5' TO LOT 57 5HC 20.5' TO LOT 39WHC 28' TO LOT 40 | MGWC 1.2: PUMP-AROUND PRACTICE | | |
| 41 18'TO LOT 42 SHC 22.5'TO LOT 41 SHC 22.5'TO LOT 41 WHC 55.5'TO LOT 57 SHC 42 14'TO LOT 43 SHC 26'TO LOT 42 SHC 26'TO LOT 42 WKC 36.5'TO LOT 43 SHC | 21 supportunit and control of the co | | |
| 43 16.5'TO LOT 44 SHC 32'TO LOT 43'SHC 32'TO LOT A3WHC 13.5'TO LOT 42 WHO 44 10.5'TO LOT 45 WHC 36'TO LOT 44 SHC 36'TO LOT 44 WHC 16.5'TO LOT 43 WHC | DESCRIPTION | Maryland's Guidelines To Waterway Construction DETAIL 1.2: PUMP-AROUND PRACTICE | |
| 45 25'TO LOT 45 SHC 10.5'TO LOT 44 WHC 25'TO LOT 45 WHC 17.5'TO LOT 46 SHC 46 18.5'TO LOT 47 SHC 50'TO LOT 4G SHC 30'TO LOT 4G WHC 19'TO LOT 47 SHC | The work should consist of installing a temporary pump around and supporting measures to divert flow around in- stream construction sites. | DETAIL 1.2. FOWF-AROUND FRACTICE | |
| 47 29.5 TO LOT 47 SHC 10'TO LOT 48 WHC 48'TO LOT 55 WHC 56'TO LOT 54 WHC 48 33.5'TO LOT 48 SHC 39'TO LOT 47 SHC 39'TO LOT 48 WHC 58'TO LOT 54 WHC | IMPLEMENTATION SEQUENCE Sediment control measures, pump-around practices, and associated channel and bank construction should be | PLAN VIEW | |
| 49 12' TO LOT 49 SHC 15.5' TO LOT 48 SHC 15.5' TO LOT 48 WHC 12' TO LOT 49 WHC 52 21,5' TO LOT 52 SHC 14' TO LOT 52 WHC 37.5' TO LOT 63 WHC | completed in the following sequence (refer to Detail 1.2): 1. Construction activities including the installation of erosion and sediment control measures should not begin | approved | |
| 53 II' TO LOT 53 SHC 37.5' TO LOT 52 SHC 11' TO LOT 53 WHC 54 44' TO LOT 55 WHC 36' TO LOT 47 WHC 27.5' TO LOT 54 WHC 20' TO LOT 55 WHC | until all necessary easements and/or right-of-ways have been acquired. All existing utilities should be marked in the field prior to construction. The contractor is responsible for any damage to existing utilities that may result from construction and should repair the damage at his/her own expense to the county's or utility company's satisfaction. | dewatering device stream diversion pumps | |
| 55 44 TO LOT 54 WHC 35 TO LOT 46 WHC 17 TO LOT 55 WHC 30 TO LOT 56 WHC 56 44 TO LOT 46 SHC 44 TO LOT 45 SHC 47 TO LOT 45 WHC 52 TO LOT 43 WHC | 2. The contractor should notify the Maryland Department of the Environment or WMA sediment control inspector at least 5 days before beginning construction. Additionally, the contractor should inform the local | discharge hoses | |
| 57 44' TO LOT 57 SHC 28' TO LOT 58 WHC 43.5' TO LOT 40 WHC 44.5' TO LOT 57 WHC | environmental protection and resource management inspection and enforcement division and the provider of local utilities a minimum of 48 hours before starting construction. 3. The contractor should conduct a pre-construction meeting on site with the WMA sediment control inspector, the | P dewatering pump intake hose | |
| 58 36 TO LOT 58 SHC 28' TO LOT 57 WHC 1C' TO LOT 59 WHC 25.5' TO LOT 59 SHC 59 16' TO LOT 58 SHC 13.5' TO LOT 59 SHC 60.5' TO LOT 58 WHC 13.5' TO LOT 59 WHC | county project manager, and the engineer to review limits of disturbance, erosion and sediment control requirements, and the sequence of construction. The contractor should stake out all limits of disturbance prior to the pre-construction meeting so they may be reviewed. The participants will also designate the contractor's " | flow flow | |
| 60 EARLY MORNING ST. 12.5' TO LOT GO SHC 43.5' TO LOT 59 SHC 12.5' TO LOT GO WHC 98.5' TO LOT 71 WHC 61 15' TO LOT 62 SHC 38.5' TO LOT 70 WHC 67.5' TO LOT 70 WHC 36.5' TO LOT GI WHC | staging areas and flag all trees within the limit of disturbance which will be removed for construction access. Trees should not be removed within the limit of disturbance without approval from the WMA or local authority. | intake hose | |
| 62 44 TO LOT TO WHC 34.5 TO LOT G3 5HC 15' TO LOT G1 WHC 34.5' TO LOT G2 WHC 63 11' TO LOT G35HC 49' TO LOT G95HC 45.5" TO LOT G9 WHC 11' TO LOT G3 WHC | 4. Construction should not begin until all sediment and erosion control measures have been installed and approved by the engineer and the sediment control inspector. The contractor should stay within the limits of the disturbance as shown on the plans and minimize disturbance within the work area whenever possible. | sediment dike clean water dike sump-hole or pool (12* to 18* deep | |
| 64 31'TO LOT 64 SHC 37.5'TO LOT 68 WHE 46.5 TO LOT 68 WHC 52.5'TO LOT 68 SHC 65 55'TO LOT 68 WHC 31.5'TO LOT 65 SHC 18.5'TO SMH -18 31.5' TO LOT 65 WHC | 5. Upon installation of all sediment control measures and approval by the sediment control inspector and the local environmental protection and resource management inspection and enforcement division, the contractor should begin work at the upstream section and proceed downstream beginning with the establishment of stabilized construction entrances. In some cases, work may begin downstream if appropriate. The sequence of | pumps should discharge length not to exceed onto a stable velocity that which can be dissipator made of rip rap completed in one day | |
| 67 EARLY MORNING ST. 16.5' TO LOT 67 SHC 28' TO SMH-18 28' TO SMH-18 16.5' TO LOT 67 WHE | construction must be followed unless the contractor gets written approval for deviations from the WMA or local | dissipator made of rip rap completed in one day or sandbags | |
| 68 23'TO LOT 68 SHC 45.5'TO LOT 69 SHC 52.5'TO LOT 64 SHC 23'TO LOT 68 WHC 69 27'TO LOT 69 SHC 43.5'TO LOT 70 SHC 45.5'TO LOT 68 WHC 49'TO LOT 63' WHC | the pump around removed from the channel. Work should not be conducted in the channel during rain events. 6. Sandbag dikes should be situated at the upstream and downstream ends of the work area as shown on the plans, | | |
| 70 42,5' TO LOT 62 SHC 66' TO LOT 71 SHC 11.5' TO LOT 70 WHC 43,5' TO LOT 69 WHC 71 73' TO LOT 71 SHC 87' TO LOT 72 SHC 39' TO SMH 19 66' TO LOT 70 WHC | and stream flow should be pumped around the work area. The pump should discharge onto a stable velocity dissipater made of riprap or sandbags. | SECTION A-A | |
| 72 22' TO LOT 72 SHC 68' TO LOT 73 SHC 67.5 TO LOT GIWHC 87' TO LOT 71 WHC 73 16' TO LOT 73 SHC 64.5' TO LOT 74 WHC 55.5' TO LOT 74 WHC 68' TO LOT 72 WHC | 7. Water from the work area should be pumped to a sediment filtering measure such as a dewatering basin, sediment bag, or other approved source. The measure should be located such that the water drains back into the channel below the downstream sandbag dike. | base flow + 1 foot | |
| 74 64.5' TO LOT 73 WHC 65.5' TO LOT 73 SHC 30' TO LOT 75 SHC 43' TO SMH -5 75 74' TO LOT 74WHC 60.5' TO LOT 76 SHC 30' TO LOT 74 SHC 54' TO SMH -5 | 8. Traversing a channel reach with equipment within the work area where no work is proposed should be avoided. If equipment has to traverse such a reach for access to another area, then timber mats or similar measures should | work area (2 foot minimum) | |
| 16 11' TO LOT 77 SHC 63' TO LOT 77 SHC 11' TO LOT 77 WHC 60.5' TO LOT 75 WHC 11' TO LOT 77 SHC 65.5' TO LOT 78 SHC 11' TO LOT 77 WHC 63' TO LOT 76 WHC | be used to minimize disturbance to the channel. Temporary stream crossings should be used only when necessary and only where noted on the plans or specified. (See Section 4, Stream Crossings, Maryland Guidelines to Waterway Construction). | cross section of sandbag dike | |
| 78 20'TO LOTTE SHC 36'TO LOTT9 SHC 20'TO LOTTE WHE 65.5'TO LOTTT WHE | 9. All stream restoration measures should be installed as indicated by the plans and all banks graded in accordance with the grading plans and typical cross- sections. All grading must be stabilized at the end of each day with seed and mulch or seed and matting as specified on the plans. | | |
| 79 26' TO LOT 79 SHC 49'TO LOT 80 SHC 26'TO LOT 79 WHC 36'TO LOT 78 WHC 80 12.5' TO LOT 80 SHC 54' TO LOT 79 WHC 12.5'TO LOT 80 WHC 49'TO LOT 79 WHC | 10. After an area is completed and stabilized, the clean water dike should be removed. After the first sediment flush, a new clean water dike should be established upstream from the old sediment dike. Finally, upon establishment of a new sediment dike below the old one, the old sediment dike should be removed. | | |
| | 11. A pump around must be installed on any tributary or storm drain outfall which contributes baseflow to the work area. This should be accomplished by locating a sandbag dike at the downstream end of the tributary or storm | TEMPORARY INSTREAM CONSTRUCTION MEASURES REVISED NOVEMBER 2000 PAGE 13 - 8 MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER MANAGEMENT ADMINISTRATION | |
| | drain outfall and pumping the stream flow around the work area. This water should discharge onto the same velocity dissipater used for the main stem pump around. | | |
| | 12. If a tributary is to be restored, construction should take place on the tributary before work on the main stem reaches the tributary confluence. Construction in the tributary, including pump around practices, should follow the same sequence as for the main stem of the river or stream. When construction on the tributary is completed, work on the main stem should resume. Water from the tributary should continue to be pumped around the | | |
| | work area in the main stem. 13. The contractor is responsible for providing access to and maintaining all erosion and sediment control devices | | |
| | until the sediment control inspector approves their removal. 14. After construction, all disturbed areas should be regraded and revegetated as per the planting plan. | | |
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| | ROM. | | |
| | I' EASEMENT I' EASEME | | |
| | PAVING WIDTH A B C D E | STANDARD CURB & GUTTER | |
| | | 1' (min.) COM DRAIN | |
| | GRASS GRASS | ROAD PAVING-11 I SIDEWALK | |
| | SIDEMALK SIDEMALK CURB & GUTTER | VALVE BOX SEWER MAIN | |
| | CURB & GUTTER | SEMER HOUSE CONNECTION | |
| | R.O.W. PAVING WIDTH A B C D E | MAIN WATER 6" VALVE LINE ALL SHC'S SHOWN SERVING NUMBERED LOTS ARE 4" DIA! | METER |
| | 50' 28' 4' 10' 1'-3" T'-9" 5' STORM DRAIN O | NOTE: REFER TO HO. CO. STANDARD WATER DETAILS FOR ADDITIONAL REQUIREMENTS | |
| | | | |
| | TYPICAL PAVING CROSS-SECTION W/ NO PARALLEL PARKING N.T.S. | TYPICAL ON SITE FIRE HYDRANT SETTING N.T.S. | |
| | | | |
| | ROM. IO' EASEMENT | NOTES: I. ALL SHO'S SHOWN SERVING NUMBERED LOTS ARE 4". | |
| | I' EASEMENT PAVING WIDTH | CURB STOP TO BE LOCATED 16" - 14" SIDEMAN | .32 FOR |
| | 4' 6' A B C D E F | WITHIN THE 16" FROM BACK OF CURB STOP I SIDEWALK AND EASEMENT CURB STOP I SIDEWALK AND EASEMENT CURB 4" SHC 4" SHC 4" SHC 4. ALL WHC'S SHOWN SERVING NUMBERED LOTS ARE 1 1/2" WITH | |
| | PARALLEL PARKING 4" | PROPOSED CURB SETTING. SETER, OUTSIDE SETTING. SEXISTING VALVE TO BE CLOSED BY DPW FOR CONSTRUCTION OF THE CONSTRUCTION OF T | |
| | GRASS CONTRACTOR OF THE PROPERTY OF THE PROPER | 1-1/2° WHC Z | |
| | SIDEWALK | PREPARED FOR: | |
| | CURB & GUTTER O WATER | METER VAULT TO BE LOCATED BETWEEN CURB AND SIDEWALK (SEE ST'D. DETAIL M 3.32) I' WHC/SHC I EASEMENT GREENEBAUM DEVELOPMENT, INC. SUITE 300 WOODHOLME CENTER 1829 REISTERSTOWN ROAD | |
| | R.O.M. PAVING WIDTH A B C D E F 50' 34' 4' 10' 1'-3* 7'-9* 5' 8' STORM DRAIN | EASEMENT 4' SIDEWALK BALTIMORE, MD 21208 ROW ATTN: MARK BENNETT | |
| | TYPICAL PAVING CROSS-SECTION W/ PARALLEL PARKING N.T.S. | 410-484-8400 | |
| DEPARTMENT OF DEPARTMENT OF | DATE DROCCCOMAL OFFICIATION AND BRIDE | SERVICE CONNECTION DETAIL N.T.S. | MAPIFIAWNIFARMS SCALE |
| PUBLIC WORKS PLANNING AND ZONING | JANUARY, I HEREBY CERTIFY THAT THESE PLANS | | MAPLE LAWN FARMS CONTRACT No. 24-4702-D SCALE AS SHOWN |
| HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND | CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 2012 WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE | WATER & SEWER NOTES & DET | AILS MIDTOWN WEST DISTRICT - AREA 1 (PHASE II) LOTS 39 thru 49, 52 thru 65, 67 thru 80 |
| Suchen ziria Malleman 3/13/12 | TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 G.L.W. No. LAWS OF THE STATE OF MARYLAND, | LEM A Added "AS BUILT" information 12-18-12 | and OPEN SPACE DOTS 85 and thrú 87 |
| CHIEF, BUREAU OF UTILITIES DATE CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE M.6 | L'(CADD)DRAIRNICS\DROUN)HIS\TRIANI PRIASE 2 (24-4702-0)\DROUN-PRIASE 2 FINS-PROFILEDING DES. DEV DRN. KLP CHK. CKG O9001 EXP. DATE: MAY 26, 2012 TO SHAPE | BY NO REVISION DATE 600' SCALE MAP NO. 41 BLOCK NO. 1 | HOWARD COUNTY, MARYLAND 5 & 21 ELECTION DISTRICT No. 5 6 OF 6 |
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