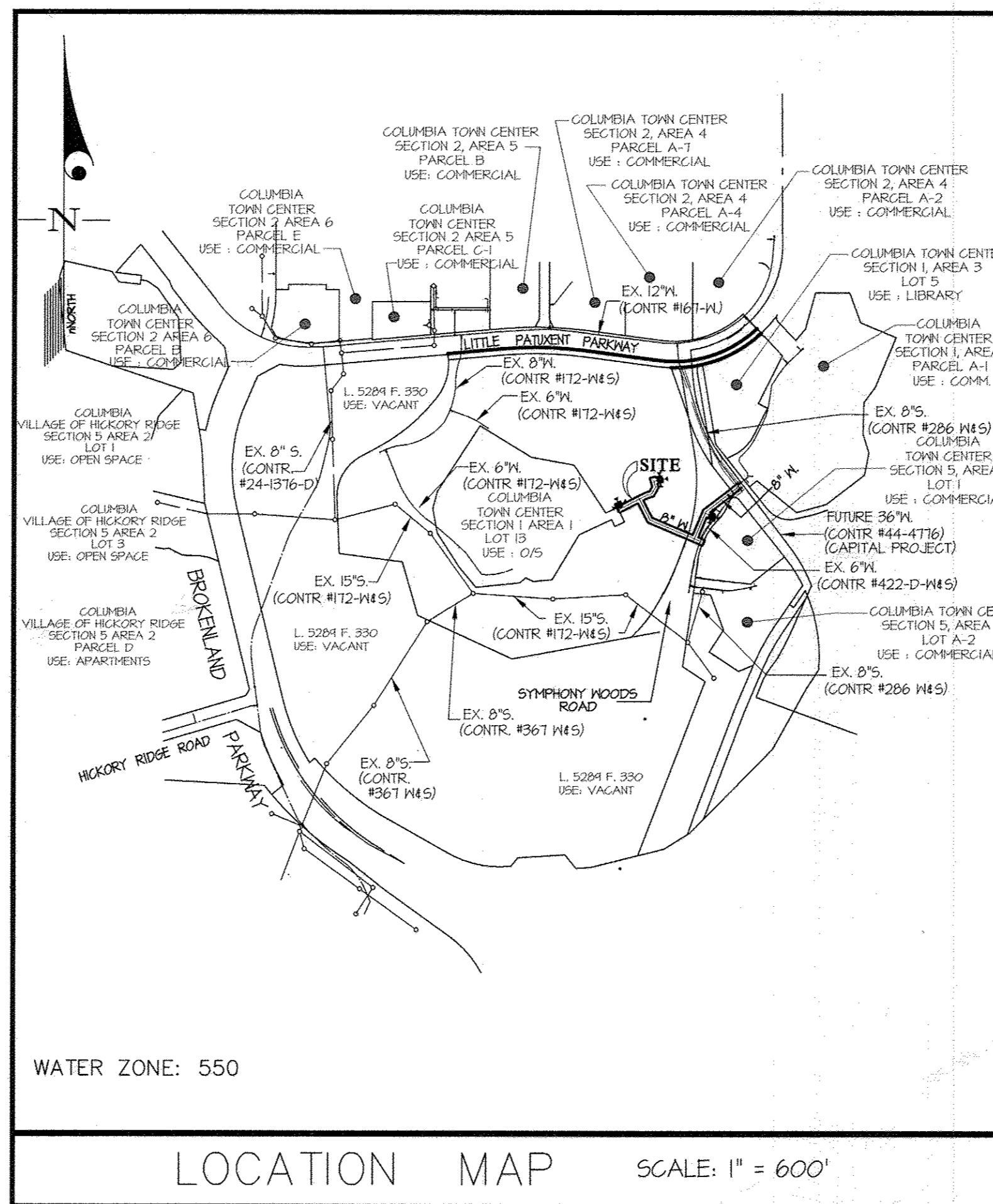
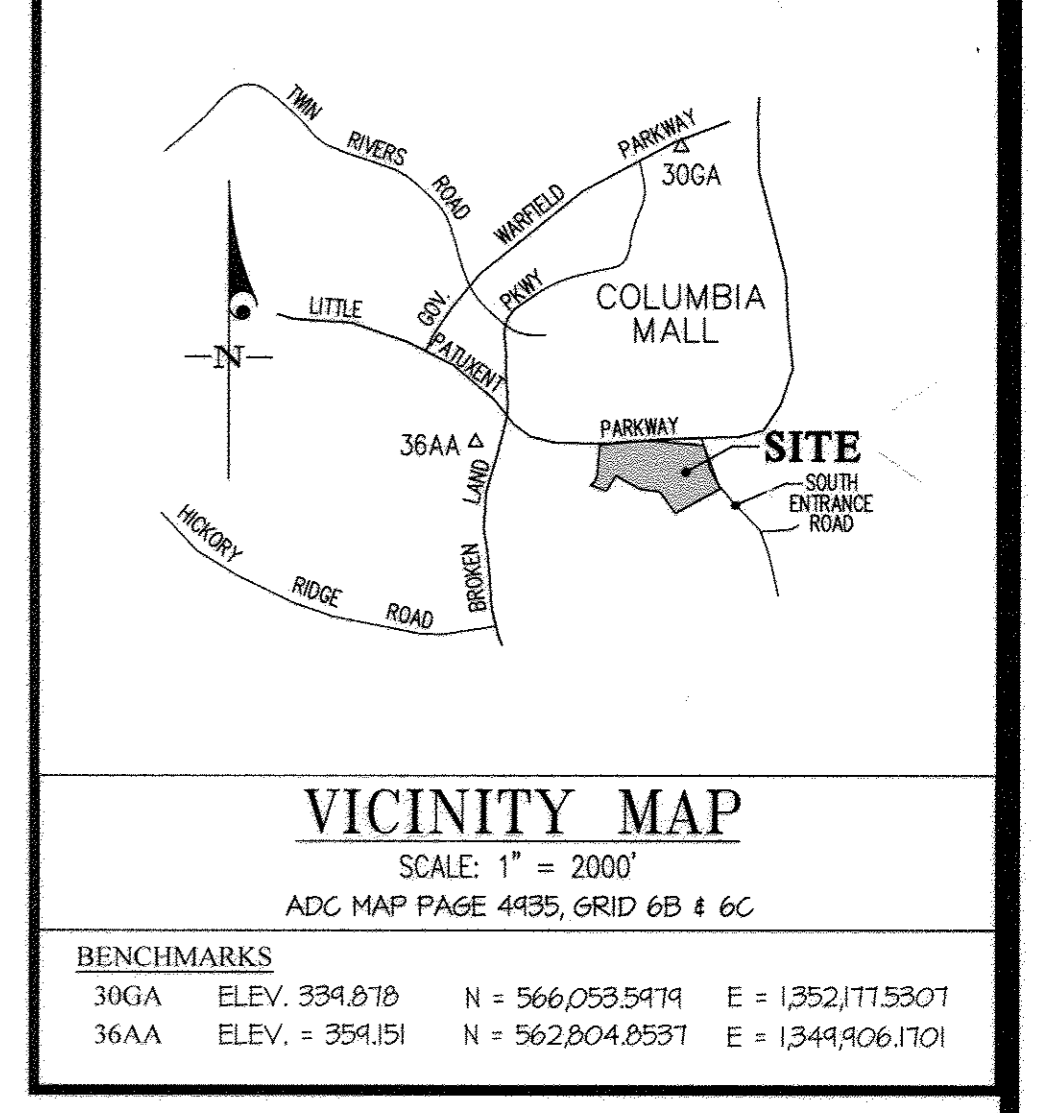


| QUANTITIES | | | | |
|---|----------------------|------------|----------------|-----------------------|
| ITEMS | QUANTITIES ESTIMATED | AS-BUILT | | |
| | | QUANTITIES | TYPE | MANUFACTURER/SUPPLIER |
| 6" WATER MAIN (C900 DR18 FVG) | 120 LF | 120 LF | C-900 PVC | NATIONAL PIPE |
| 8" WATER MAIN (C900 DR18 FVG) | 959 LF | 959 LF | C-900 PVC | NATIONAL PIPE |
| 4" WATER MAIN (C900 DR18 FVG) | 9 LF | 9 LF | C-900 PVC | NATIONAL PIPE |
| 8" x 8" CROSS | 2 EA | 2 EA | DIP | STAR PIPE |
| 8" x 6" T.S.V. | 1 EA | 1 EA | SPAINLESS IRON | MUELLER |
| 8" V. | 8 EA | 8 EA | DIP | MUELLER |
| 8" x 1/2" H.B. | 2 EA | 2 EA | DIP | STAR PIPE |
| 8" x 1/2" H.B. | 1 EA | 1 EA | DIP | STAR PIPE |
| 8" x 1/2" H.B. | 1 EA | 1 EA | DIP | STAR PIPE |
| 8" CAP | 4 EA | 4 EA | DIP | STAR PIPE |
| 8" x 6" REDUCER | 1 EA | 1 EA | DIP | STAR PIPE |
| 8" x 6" F.H.T. | 3 EA | 3 EA | DIP | STAR PIPE |
| 8" 10" HDC | 1 EA | 1 EA | PVC | CERTANTEED |
| 8" 15" HDC | 1 EA | 1 EA | PVC | CERTANTEED |
| 8" 25" HDC | 1 EA | 1 EA | PVC | CERTANTEED |
| 8" 30" HDC | 5 EA | 5 EA | PVC | CERTANTEED |
| 8" 35" HDC | 1 EA | 1 EA | PVC | CERTANTEED |
| 8" x 4" TEE | 1 EA | 1 EA | DIP | STAR PIPE |
| 6" V. | 3 EA | 3 EA | DIP | MUELLER |
| 6" CAP | 1 EA | 1 EA | DIP | STAR PIPE |
| 6" x 4" H.B. | 2 EA | 2 EA | DIP | STAR PIPE |
| 4" CAP | 1 EA | 1 EA | DIP | STAR PIPE |
| 4" V. | 1 EA | 1 EA | DIP | MUELLER |
| FIRE HYDRANTS | 3 EA | 3 EA | CENTURY | MUELLER |
| PAVING REPLACEMENT | 200 CY. | | | |
| NAME OF UTILITY CONTRACTOR: HIC CONTRACTORS | | | | |
| SURVEY AND DRAFTING DIV. | | CHECKBOX: | AS-BUILT DATE: | |



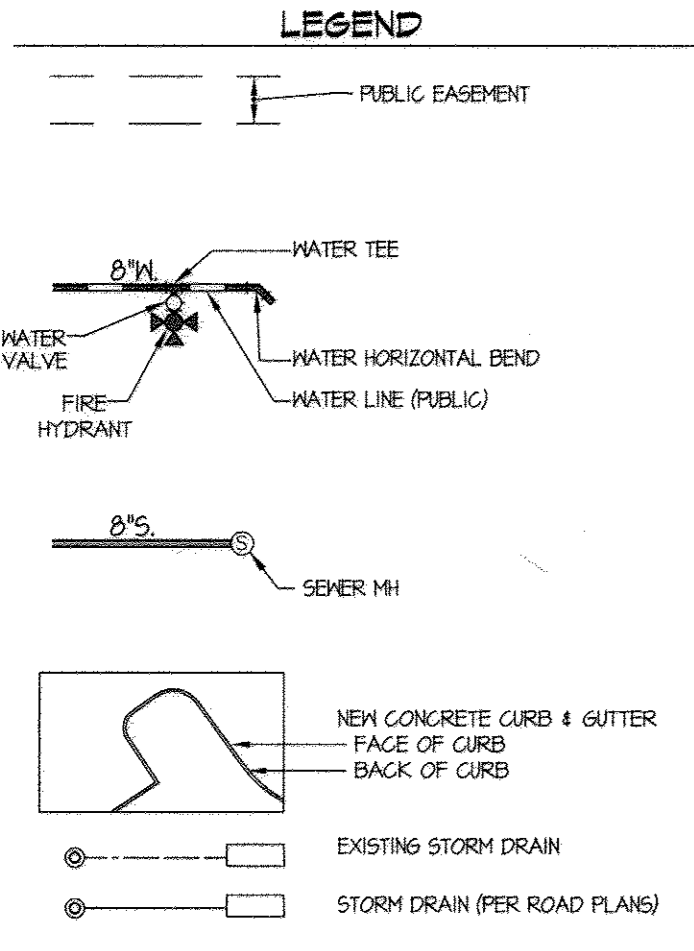
| | |
|-------------------------------|-----------------------------------|
| TYPE OF BUILDING | COMMERCIAL |
| NUMBER OF LOTS | 1 |
| NUMBER OF S.H.C.'s | 1 |
| NUMBER OF W.H.C.'s | 2 |
| AREA OF COMMERCIAL LOT/PARCEL | 36.23 AC. |
| SEWER SHED | MIDDLE PATUXENT |
| PUMPING STATION | LITTLE PATUXENT RECLAMATION PLANT |



GENERAL NOTES

- 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.
- Topographic field surveys were performed on December, 2008 by McKenzie SNYDER.
- Horizontal and Vertical Survey Controls:
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. 36AA and No. 300A.
All vertical controls are based on NAVD 88. Vertical controls provided on the drawings are (Engineering / Survey firm shall provide description of vertical control points, i.e., iron bars, cross cuts on concrete structures, etc.).
- 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 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 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 \oplus 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 shown on these plans:
 AT&T.....1-800-252-1133
 BGE (Construction Services).....410-637-8713
 BGE (Emergency).....410-685-0123
 Bureau of Utilities.....410-313-4800
 Colonial Pipeline Co.....410-785-1980
 Miss Utility.....1-800-251-7771
 State Highway Administration.....410-531-5533
 Verizon.....1-800-743-0095
- 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.
- 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 razing/lacking 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 18.14(a) of the Howard County Code.

DOWNTOWN COLUMBIA MERRIWEATHER-SYMPHONY WOODS NEIGHBORHOOD CONTRACT No. 24-4868-D PART OF OPEN SPACE LOT 23-PLAT NO. 22123 & PART OF OPEN SPACE LOT 9B-PLAT BOOK 15, PAGE 32 HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS



| SHEET INDEX | |
|----------------------------|--|
| 1 - COVER SHEET | |
| 2 - WATER & SEWER PLAN | |
| 3 - WATER & SEWER PROFILES | |
| 4 - SEDIMENT CONTROL PLAN | |

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SDP-14-073, SHEET 4 OF THIS PLAN & SECTION 308 OF THE SPECIFICATIONS.

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

APPROVED: *[Signature]* 3/12/15
HOWARD S.C.D. Date

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 2/12/15
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

[Signature] 3-18-15
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3509 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 FAX: 301-889-2524 FAX: 301-421-4196

DES. WSJ DRN. WSJ CHK. MJT

DATE JAN., 2015

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. 14931, EXP. DATE: MAY 21, 2016

G.L.W. No. 13043

| BY | NO | REVISION | DATE |
|-----|----|-----------------------------------|----------|
| KCI | 1 | AS-BUILT | 5-31-17 |
| gt | 2 | Revise Quantities Box | 9-29-16 |
| gt | 3 | Rev. Quantities | 07-10-16 |
| gt | 4 | REVISED QUANTITIES BOX | 1/12/16 |
| gt | 5 | Revise Location Plan & Quantities | 10-16-15 |

COVER SHEET

600' SCALE MAP NO. 36 BLOCK NO. 01

DOWNTOWN COLUMBIA
MERRIWEATHER-SYMPHONY WOODS NEIGHBORHOOD
CONTRACT No. 24-4868-D
PART OF OPEN SPACE LOT 23-PLAT NO. 22123 &
PART OF OPEN SPACE LOT 9B-PLAT BOOK 15, PAGE 32
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT NO. 5

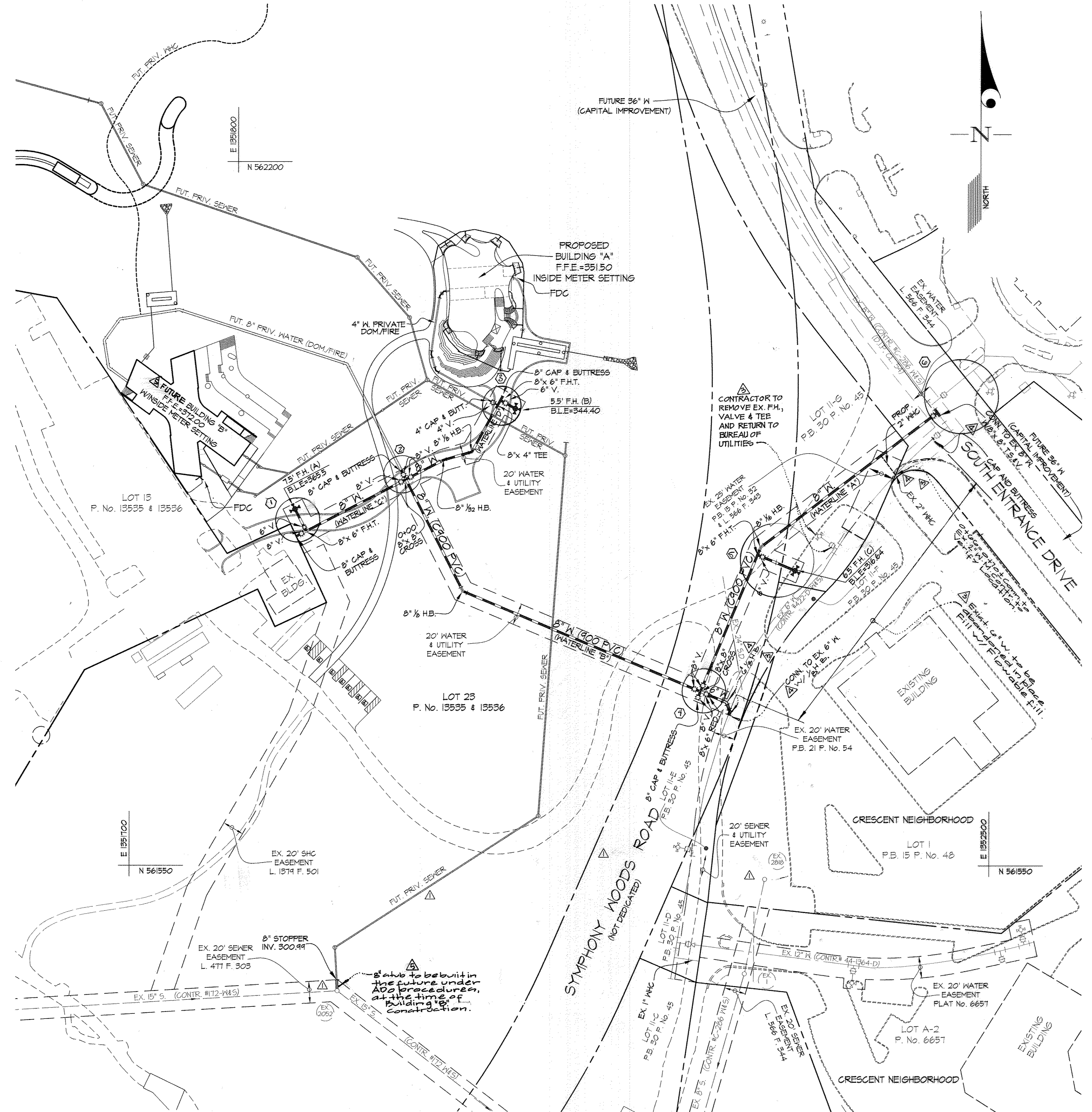
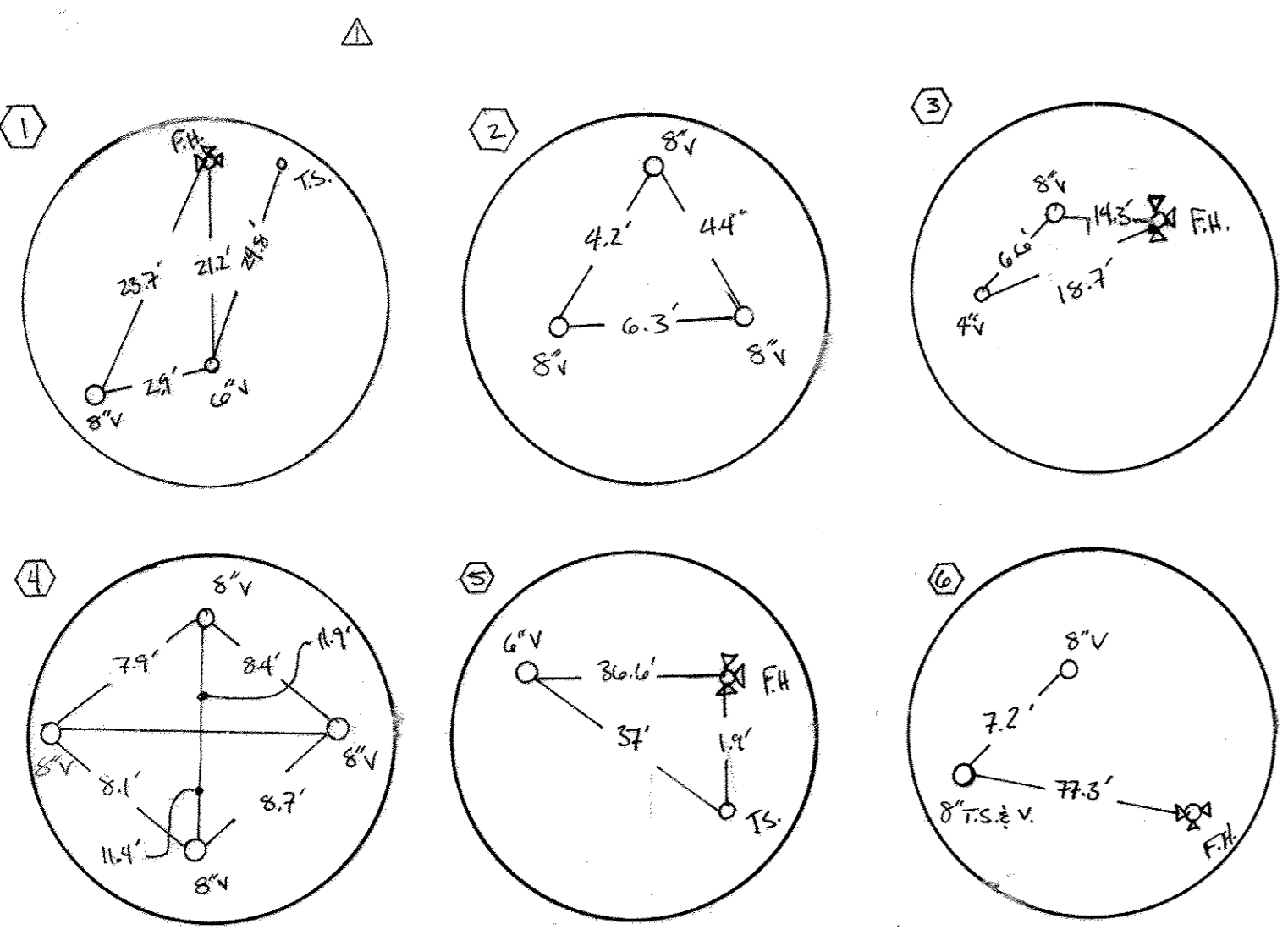
SCALE AS SHOWN
SHEET 1 OF 4

PREPARED FOR:
INNER ARBOR TRUST
10630 LITTLE PATUXENT PARKWAY
CENTURY PLAZA, SUITE 315
COLUMBIA, MD 21044
ATTN: MICHAEL McCALL
410-740-0029

C:\CADD\DRAWINGS\1707\1707-1504\3\Drawings by G.W.M. - SEWER PLAN - FINAL - EAST - 1043 - WSJ - CS - 8/15
 L:\CADD\DRAWINGS\1707\1707-1504\3\Drawings by G.W.M. - SEWER PLAN - FINAL - EAST - 1043 - WSJ - CS - 8/15

| FIRE HYDRANT CHART | | | |
|--------------------|-------------------------|----------------|--|
| FH | NAD '83/'91 COORDINATES | | |
| A | N 561879.0685 | E 1351853.5242 | |
| B | N 561972.2310 | E 1352058.5319 | |
| C | N 561822.5264 | E 1352318.8475 | |

| FITTING CHART | | | |
|----------------|-------------------|-------------------------|----------------|
| STATION | FITTING | NAD '83/'91 COORDINATES | |
| WATER MAIN 'A' | | | |
| 0+00 | 8" x 8" T.S. & V. | N 561968.7626 | E 1352451.1400 |
| 2+06 | 8" x 1/2" H.B. | N 561844.2993 | E 1352286.9719 |
| 2+14 | 8" x 6" F.H.T. | N 561837.1428 | E 1352283.9671 |
| 3+51 | 8" x 8" CROSS | N 561710.7041 | E 1352230.9900 |
| WATER MAIN 'B' | | | |
| 0+00 | 8" x 6" T.S. & V. | N 561968.2851 | E 1352260.6267 |
| 0+32 | 8" x 8" CROSS | N 561710.7041 | E 1352230.9900 |
| 2+12 | 8" x 1/2" H.B. | N 561803.3838 | E 1352009.8194 |
| 3+88 | 8" x 8" CROSS | N 561906.5367 | E 1351956.6411 |
| 3+98 | 8" CAP | N 561915.4826 | E 1351952.1235 |
| WATER MAIN 'C' | | | |
| 0+00 | 8" x 8" CROSS | N 561906.5367 | E 1351956.6411 |
| 1+04 | 8" x 6" F.H.T. | N 561858.8710 | E 1351864.0713 |
| 1+15 | 8" CAP | N 561853.8293 | E 1351854.7078 |
| WATER MAIN 'D' | | | |
| 0+00 | 8" x 8" CROSS | N 561906.5367 | E 1351956.6411 |
| 0+39 | 8" x 1/2" H.B. | N 561924.5382 | E 1351911.5594 |
| 0+67 | 8" x 1/2" H.B. | N 561932.1820 | E 1352018.0727 |
| 1+16 | 8" x 4" TEE | N 561975.3662 | E 1352042.0046 |
| 1+21 | 8" x 6" F.H.T. | N 561979.8914 | E 1352044.5107 |
| 1+16 | 4" CAP | N 561980.2108 | E 1352033.2565 |
| 1+26 | 8" CAP | N 561983.6768 | E 1352046.6071 |



FOR WATER & SEWER PROFILES SEE SHEET 3 OF 4

PREPARED FOR:
INNER ARBOR TRUST
10630 LITTLE PATUXENT PARKWAY
CENTURY PLAZA, SUITE 315
COLUMBIA, MD 21044
ATTN: MICHAEL McCALL
410-740-0029

REVISED

DEPARTMENT OF
PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Michael McCall
CHIEF, BUREAU OF UTILITIES
DATE

DEPARTMENT OF
PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Michael McCall
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE

GLWGuttschick Little & Weber, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONVILLE OFFICE PARK
BURTONVILLE, MARYLAND 20868
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4188

DATE
JAN., 2016

G.L.W. No.
13043

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. 14931
EXP. DATE: MAY 21, 2016

DES. WsJ DRN. WsJ CHK. MJT

STATE OF MARYLAND
MICHAEL J. GUTTSCHICK
PROFESSIONAL ENGINEER
LICENSE NO. 14931
EXPIRES MAY 21, 2016

| BY | NO | REVISION | DATE |
|-----|--|----------|-----------|
| KIT | AS-BUILT | | 5-31-17 |
| gt | 8" sewer atub labeled future | | 8-29-17 |
| gt | Rev. com. waterline 18" to Ex. W. Ex. G.W. abandoned | | 0-17-2016 |
| mjt | Rev. ex. g.w. to be abandoned in place | | 4-1-2016 |
| mjt | COORDINATED WATERLINE D W/ ARCH | | 1/8/16 |
| mjt | REMOVE SEWER RUN FROM EX 2818, ADD SHC FROM 2052 | | 10/16/15 |

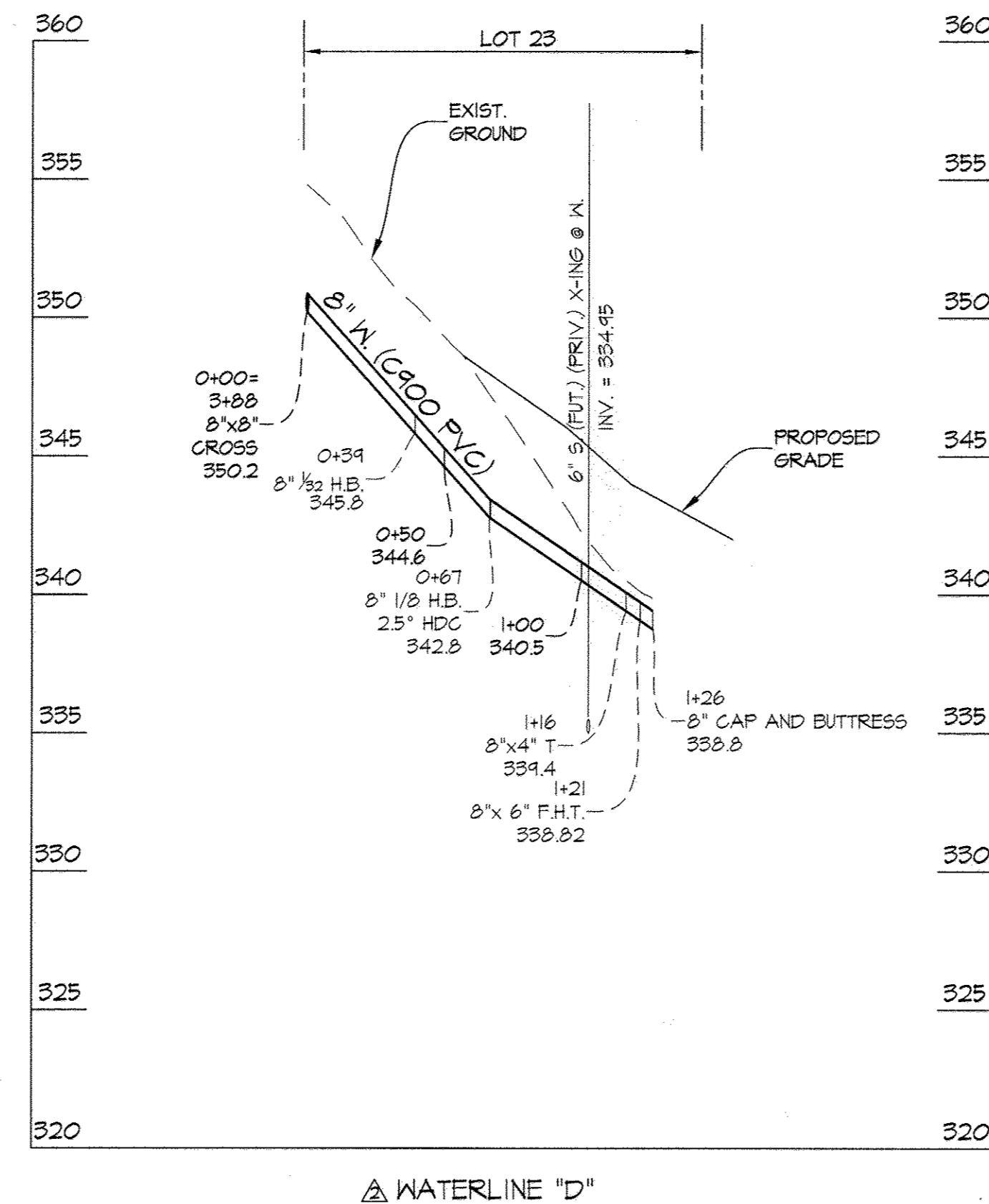
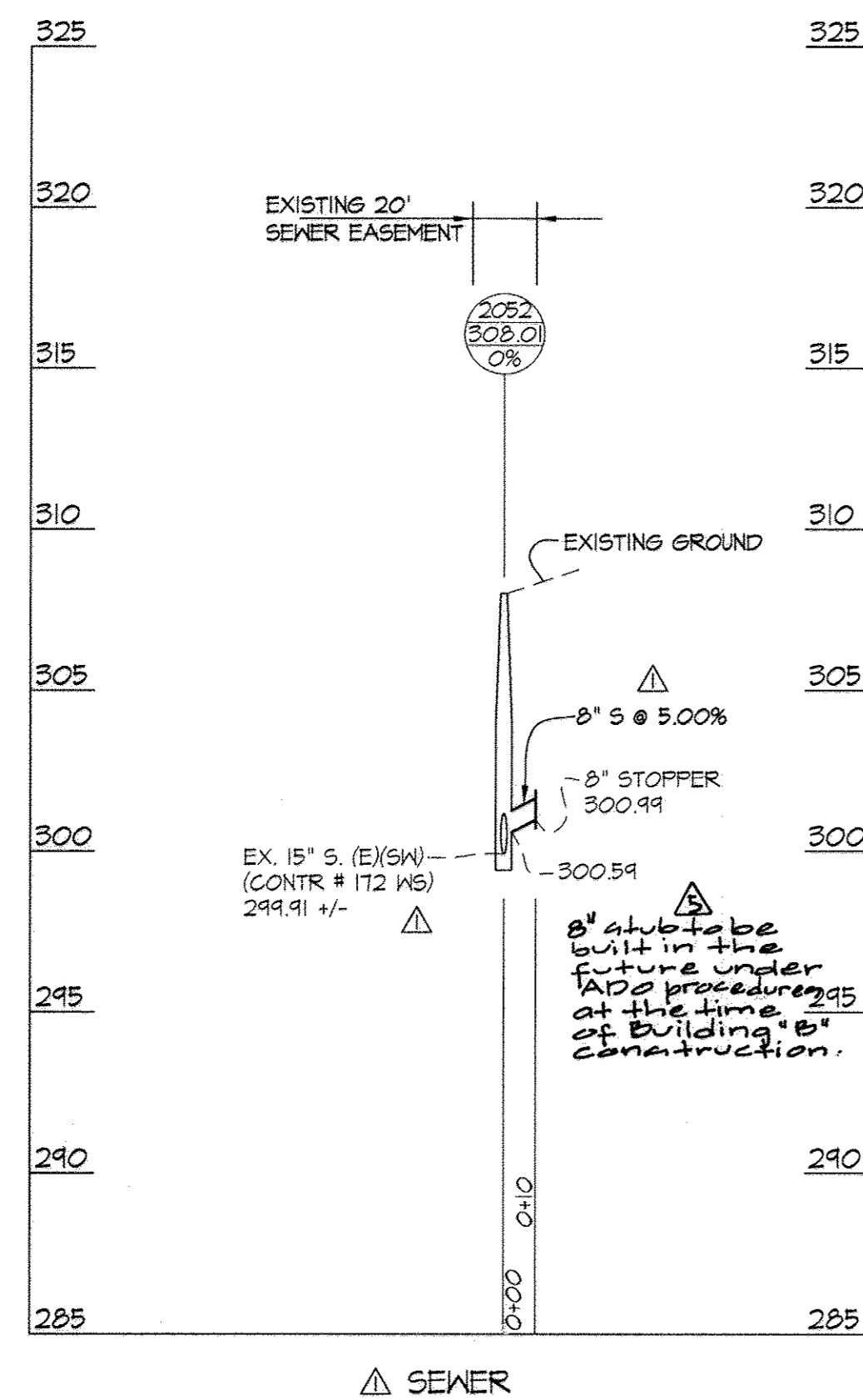
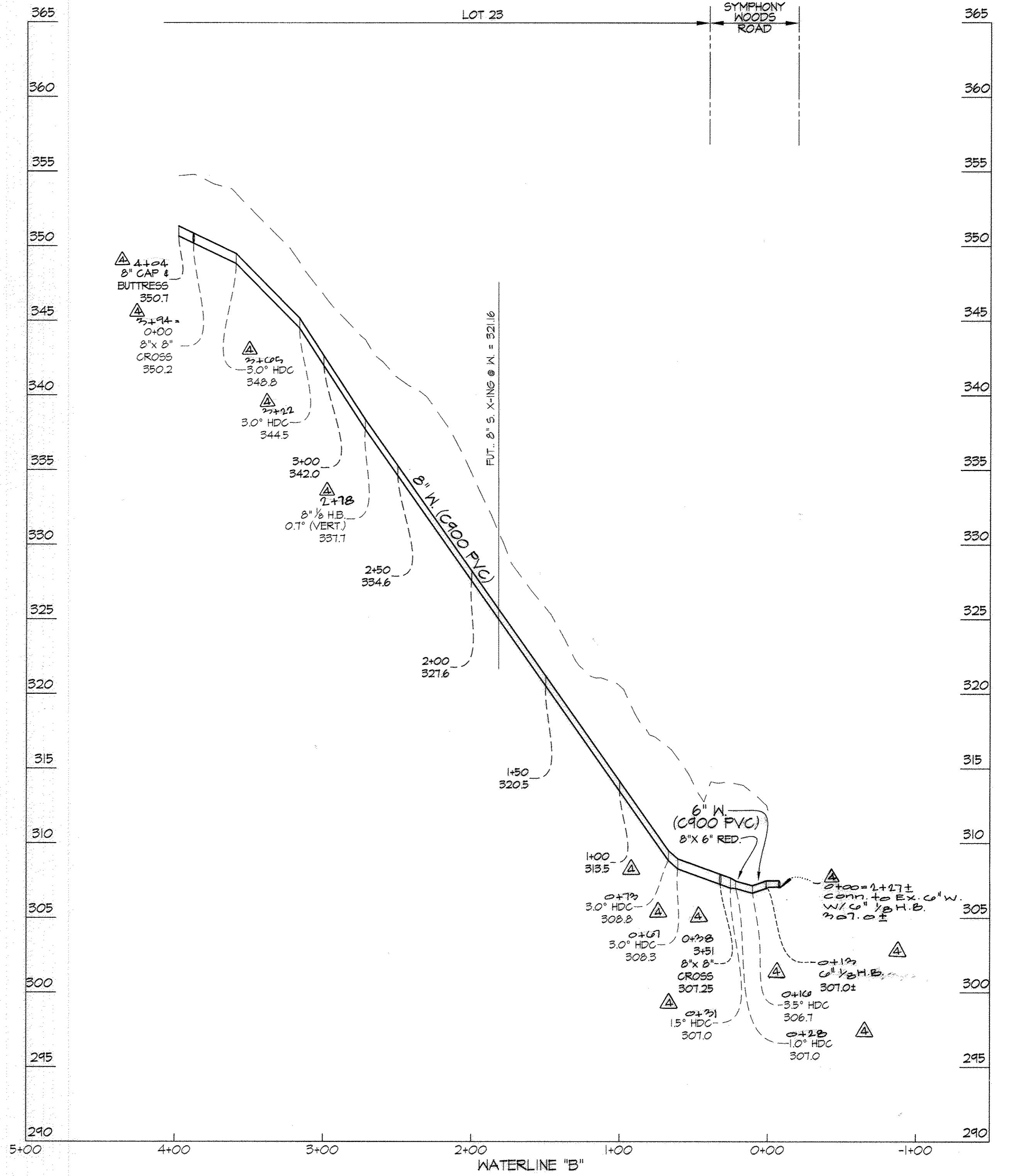
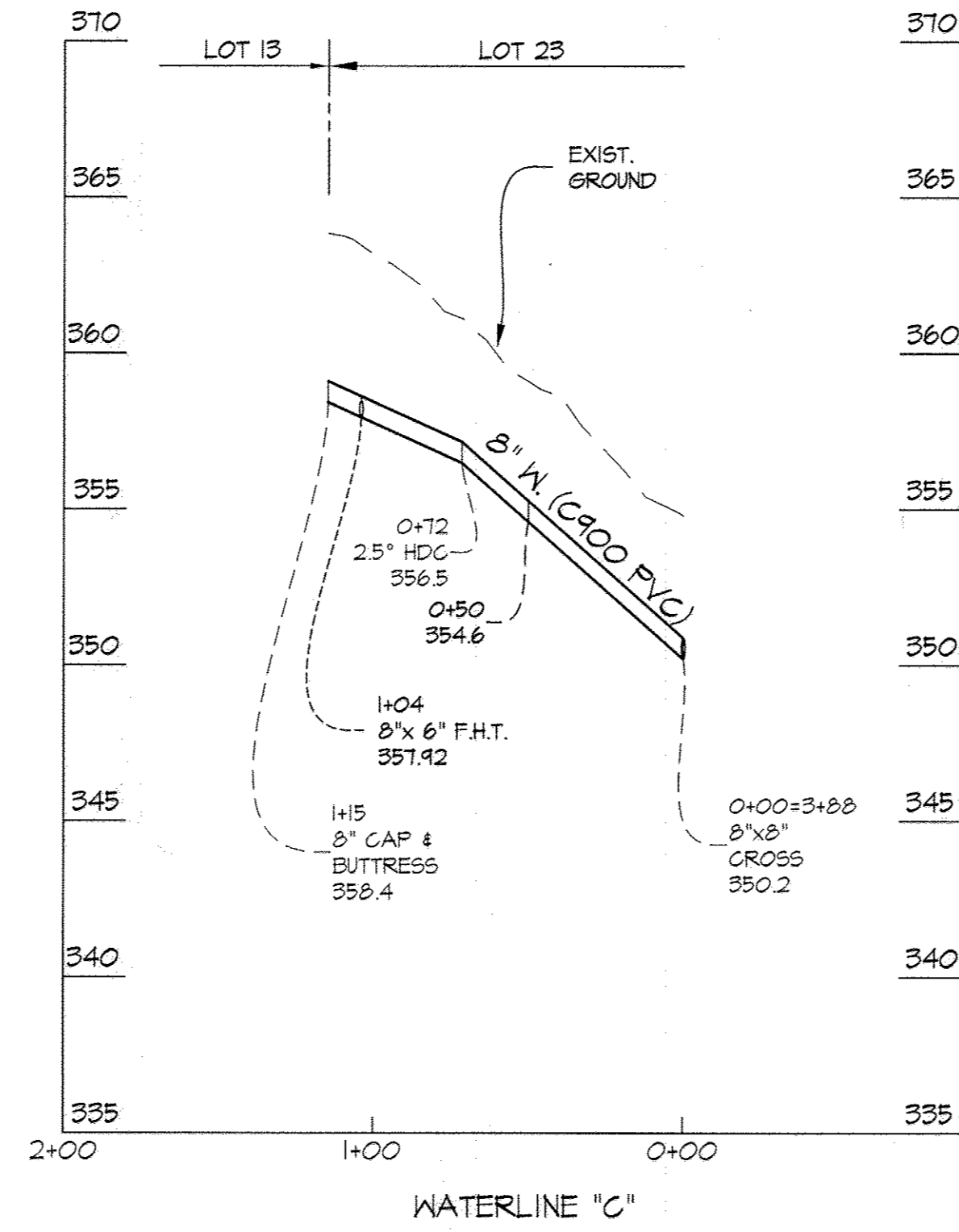
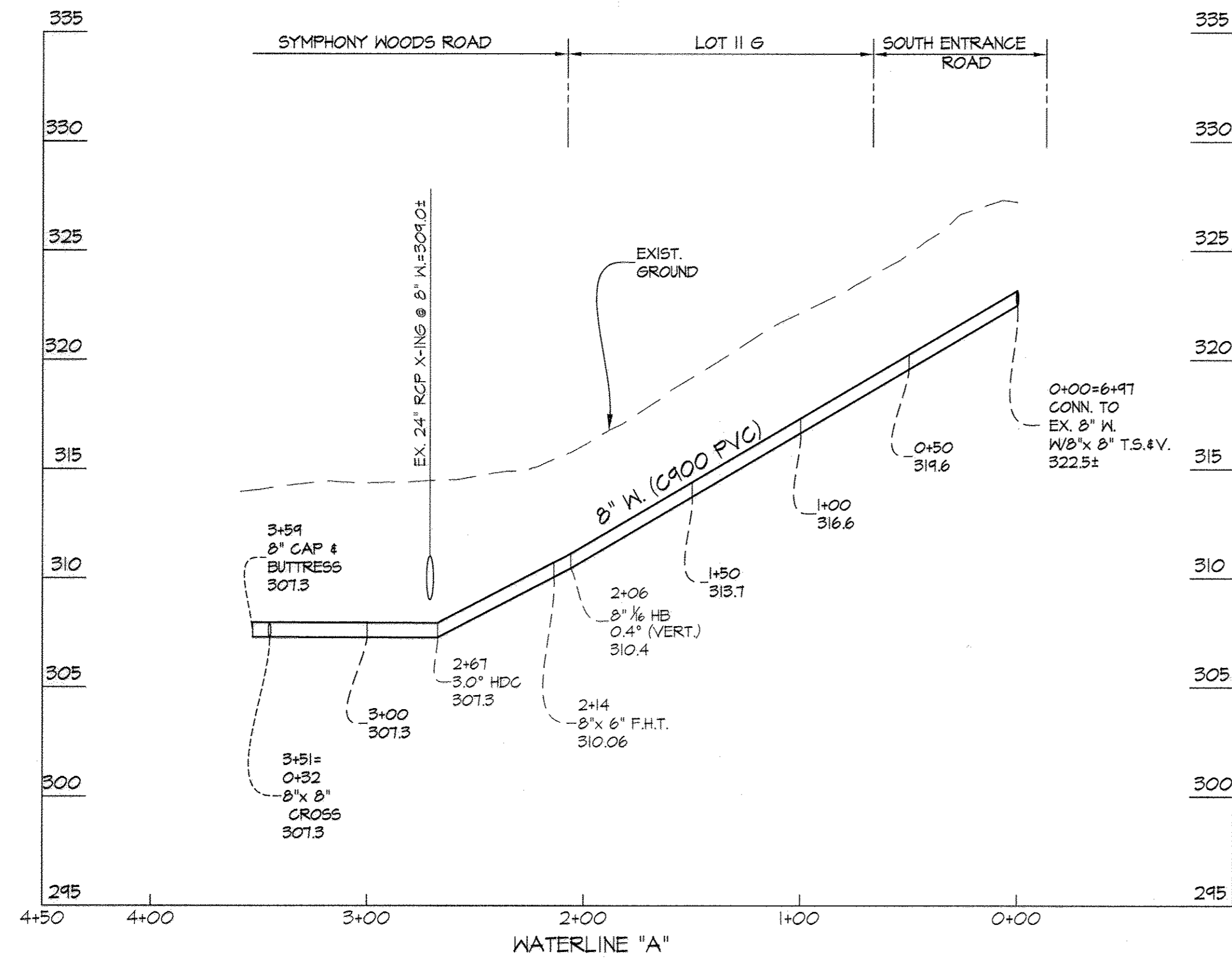
WATER & SEWER EXTENSION PLAN

600' SCALE MAP NO. 36 BLOCK NO. 01

DOWNTOWN COLUMBIA
MERRIWEATHER-SYMPHONY WOODS NEIGHBORHOOD
CONTRACT No. 24-4868-D
PART OF OPEN SPACE LOT 23-PLAT NO. 22123 &
PART OF OPEN SPACE LOT 98-PLAT BOOK 15, PAGE 32
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 5

SCALE
1" = 50'

SHEET
2 OF 4



PROFILE SCALES:
 HORZ. 1" = 50'
 VERT. 1" = 5'

FOR WATER & SEWER PLAN SEE SHEET 2 OF 3

PREPARED FOR:
 INNER ARBOR TRUST
 10630 LITTLE PATUXENT PARKWAY
 CENTURY PLAZA, SUITE 315
 COLUMBIA, MD 21044
 ATTN: MICHAEL MCCALL
 410-740-0029

REVISED

L:\CADD\DRAWINGS\10721\10630-SEWER\DWG-FINAL-EASTV\2014-MS-3.dwg
 DATE: 10/16/15 11:58 AM LAST SAVER: JAW/2015 11:58 AM PLOTTED: 8/1/2016 10:58 AM

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DATE: 2-11-16

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 DATE: 2-11-16

GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 350 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20886
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE: JAN., 2016
 G.L.W. No. 13043

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. 14931
 EXP. DATE: MAY 21, 2016



| BY | NO | REVISION | DATE |
|-----|----|--|----------|
| jt | 1 | 8" sewer atub labeled future | 2-19-17 |
| jt | 2 | Rev. Conn. waterline 'B' to Ex. c.w. | 6-17-16 |
| mjt | 3 | COORDINATED WATERLINE D W ARCH | 1/8/16 |
| mjt | 4 | REMOVE SEWER RUN FROM EX 2818, ADD SHG FROM 2052 | 10/16/15 |
| BY | NO | REVISION | DATE |

WATER & SEWER PROFILES
 600' SCALE MAP NO. 36 BLOCK NO. 01

DOWNTOWN COLUMBIA
 MERRIWEATHER-SYMPHONY WOODS NEIGHBORHOOD
 CONTRACT No. 24-4868-D
 PART OF OPEN SPACE LOT 23-PLAT NO. 22123 &
 PART OF OPEN SPACE LOT 9B-PLAT BOOK 15, PAGE 32
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 5

SCALE AS SHOWN
 SHEET 3 OF 4

B-4.4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION
DEFINITION: TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.
PURPOSE: TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.
CRITERIA: 1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1...
TEMPORARY SEEDING SUMMARY TABLE: HARNESS ZONE: 6b, SEED MIXTURE: APPLICATION, SPECIES, RATE, SEEDING DATES, SEEDING DEPTHS, FERTILIZER RATE, LIME RATE.

B-4.2 STANDARD AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS
DEFINITION: THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.
PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.
CRITERIA: A. SOIL PREPARATION: 1. TEMPORARY STABILIZATION... 2. PERMANENT STABILIZATION...
B. TOPSOILING: 1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL... 2. TOPSOIL SALVAGED FROM AN EXISTING SITE... 3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES...

B-4.3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING
DEFINITION: THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.
PURPOSE: TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.
CRITERIA: A. SEEDING: 1. SPECIFICATIONS... 2. APPLICATION...
B. MULCHING: 1. MULCH MATERIALS (IN ORDER OF PREFERENCE)... 2. APPLICATION...

B-4.5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION
DEFINITION: TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.
PURPOSE: TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.
CRITERIA: A. SEED MIXTURES: 1. GENERAL USE... 2. TURFGRASS MIXTURES...
B. SOD: 1. GENERAL SPECIFICATIONS... 2. SOD INSTALLATION... 3. SOD MAINTENANCE...

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...
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 HOWARD COUNTY STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL...
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN...
4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 1, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

ENGINEER'S CERTIFICATE
"I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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 COUNTY SOIL CONSERVATION DISTRICT."
ENGINEER'S SIGNATURE: [Signature] DATE: [Date]

DEVELOPER'S/BUILDER'S CERTIFICATE
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
SIGNATURE OF DEVELOPER/BUILDER: [Signature] DATE: [Date]

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.
HOWARD S.C.D. DATE: [Date]

SITE ANALYSIS
TOTAL AREA OF SITE: 0.71 ac.
AREA DISTURBED: 0.71 ac.
AREA TO BE ROOFED OR PAVED: 0.01 ac.
AREA TO BE VEGETATIVELY STABILIZED: 0.01 ac.
TOTAL CUT: 0 c.y.
TOTAL FILL: 0 c.y.
OFF-SITE WASTE/BORROW AREA LOCATION: N/A

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
3/12/15
CHIEF, DEVELOPMENT ENGINEERING DIVISION

PERMANENT SEEDING SUMMARY
HARNESS ZONE: 6b
SEED MIXTURE: BB (Tall Fescue)
Table with columns: No., SPECIES, APPLICATION, SEEDING DATES, SEEDING DEPTHS, FERTILIZER RATE, LIME RATE.
Table with columns: No., SPECIES, RATE, SEEDING DATES, SEEDING DEPTHS, FERTILIZER RATE, LIME RATE.

DATE: JAN. 2015
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, 14931.
G.L.W. No. 13043
EXP. DATE: MAY 21 2016

DETAIL E-3 SUPER SILT FENCE
STANDARD SYMBOL: SF
CONSTRUCTION SPECIFICATIONS:
1. INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART...
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE STEEL POSTS WITH WIRE TIES OR HANG NAILS...
3. FASTEN WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH SILE TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION...
4. WARE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE
STANDARD SYMBOL: SCE
CONSTRUCTION SPECIFICATIONS:
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN...
2. PAVE SURFACE WATER FLOWING TO OR DIVERTED THROUGH THE SILE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE...
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE...
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

VICINITY MAP
SCALE: 1" = 2000'
ADC MAP PAGE 4435, GRID 6B & 6C
BENCHMARKS:
30GA ELEV. 334.878 N = 566,053.5414 E = 1352,171.5301
36AA ELEV. = 354.151 N = 562,204.8537 E = 1349,406.1701

DETAIL E-3 SUPER SILT FENCE
CONSTRUCTION SPECIFICATIONS:
1. INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART...
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE STEEL POSTS WITH WIRE TIES OR HANG NAILS...
3. FASTEN WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH SILE TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION...
4. WARE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE
CONSTRUCTION SPECIFICATIONS:
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN...
2. PAVE SURFACE WATER FLOWING TO OR DIVERTED THROUGH THE SILE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE...
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE...
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

PLAN SCALE: 1"=50'
VICINITY MAP showing site location relative to COLUMBIA MALL, SYMPHONY WOODS ROAD, and CRESCENT NEIGHBORHOOD. Includes site boundaries, easements, and existing structures.

LEGEND
SF - SILT FENCE
--- --- LIMIT OF DISTURBANCE
SCE - STABILIZED CONSTRUCTION ENTRANCE
--- --- EXIST. PAVING
SEQUENCE OF CONSTRUCTION
1. Arrange pre-construction meeting with the Sediment Control Inspector and obtain the Grading Permit. 1 DAY
2. Install stabilize construction entrance and super silt fence. 1 DAY
3. Install utilities. Place trench excavation materials uphill of trench. See Sediment Control Notes number 10 for additional requirements. Stabilize areas with grass seed and mulch. 2 WEEKS
4. When all areas drain to the sediment controls have been stabilized and permission has been granted by the Sediment Control Inspector, remove those sediment controls. Stabilize the remaining areas landscaping, seed and mulch. 1 WEEK

PREPARED FOR:
INNER ARBOR TRUST
10630 LITTLE PATUXENT PARKWAY
CENTURY BLAZA, SUITE 315
COLUMBIA, MD 21044
ATTN: MICHAEL MCCALL
410-740-0029

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE: 3/12/15
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
DATE: 3/12/15
CHIEF, DEVELOPMENT ENGINEERING DIVISION

GLWGutschick Little & Weber, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTSMVILLE OFFICE PARK
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-889-2524 FAX: 301-421-4198

DATE: JAN. 2015
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, 14931.
G.L.W. No. 13043
EXP. DATE: MAY 21 2016

SCALE: AS SHOWN
SHEET: 4 OF 4

WATER EXTENSION
SEDIMENT CONTROL
PLAN

REMOVE POWER OUTFALL AND SEDIMENT CONTROLS

REVISION: 10.10.15

DATE: 600' SCALE MAP NO. 36 BLOCK NO. 01

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