

General Notes

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY, THE HOWARD COUNTY PLUMBING CODE, PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE OR AS SPECIFIED.
2. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE BASED SOLELY ON AVAILABLE RECORDS. CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES THAT MAY BE IMPACTED BY THE WORK. MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
4. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
5. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING, CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING PUBLIC RIGHT-OF-WAY, EXISTING PAVING, EXISTING CURB AND GUTTER, EXISTING UTILITIES, ETC. SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. THE EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUN SURVEY WITH MAXIMUM OF 2' CONTOUR INTERVALS PREPARED BY DUVALL & ASSOCIATES, P.A. DATED JUNE 2004. TOPD COMBINED WITH PLANS OF RECORD.
7. ONSITE WATER IS PUBLIC PER CONTRACT R-3369.
8. SEWER ONSITE IS PRIVATE AND CONNECTS TO PUBLIC SEWER BUILT UNDER CONTRACT 24-3968D. DRAINAGE AREA IS LITTLE PATUXENT.
9. THE SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING ANALYSIS FOR THIS PROJECT WAS MADE BY HILLIS CARNES ASSOCIATES.
10. ALL FILL AREAS SHALL BE COMPACTED AS DETERMINED AND VERIFIED IN ACCORDANCE WITH GEOTECHNICAL ENGINEER.
11. REGIONAL STORMWATER MANAGEMENT IS PROVIDED IN A POND SYSTEM LOCATED ON ADJACENT LOT 15 (DPW FILE F-97-98).
12. THERE ARE NO WETLANDS ON THIS SITE.
13. THERE ARE NO FLOODPLAINS ON THIS SITE.
14. OPERATING EXISTING VALVES, SWITCHES, SERVICES OR START UP OF NEW SERVICES SHALL BE COORDINATED WITH THE OWNERS REPRESENTATIVE. THE BUILDINGS WILL BE PROVIDED WITH A SPRINKLER SYSTEM.
15. TRENCH COMPACTION FOR STORM DRAINS WITHIN THE ROAD OR STREET RIGHT OF WAY LIMITS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL IV, STD. NO. G-2.01.
16. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
17. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS.
18. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WATER, SEWER, AND ROOF DRAIN CONNECTIONS WITH THE MECHANICAL DRAWINGS.
19. EXISTING UTILITIES ARE BASED ON A COMBINATION OF PLANS OF RECORD AND FIELD RUN DATA.
20. THE CONTRACTOR SHALL MAINTAIN 2.0 FEET MINIMUM PROTECTIVE COVER OVER ALL UTILITIES DURING CONSTRUCTION.
21. THERE ARE NO KNOWN CEMETARIES OR BURIAL GROUNDS ON THIS SITE. HOWEVER, UPON DISCOVERY OF ANY EVIDENCE OF BURIAL OR GRAVES, THE DEVELOPER WILL BE SUBJECT TO SECTION 16.1305 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
22. ALL FILL SLOPES, EXCEPT THOSE ASSOCIATED WITH LANDSCAPE BEHINDING, SHALL BE MONITORED DURING PLACEMENT BY THE PROJECT GEOTECHNICAL ENGINEER.
23. PAVING MARKINGS TO BE "TRAFFIC WHITE".
24. CONTRACTOR SHALL MAINTAIN A MINIMUM 2 FOOT BENCH BEHIND CURB AND GUTTER IN FILL AREAS.
25. ALL FIRE LINE PIPING SHALL MEET THE REQUIREMENTS OF THE NFPA PIPE SHALL BE UL LISTED, FM APPROVED AND MEET THE ANWA STANDARDS FOR FIRE PROTECTION USE. FITTINGS SHALL HAVE PRESSURE CLASS RATINGS COMPATIBLE WITH THE PIPE USED.
26. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4 FEET OF COVER OVER THE PRIVATE WATER MAIN SHOWN HEREON UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE ALL CRUMPS OR VERTICAL BENDS NECESSARY TO MAINTAIN CLEARANCES WITH OTHER UTILITIES.
27. THE CONTRACTOR SHALL INSPECT THE SITE TO DETERMINE IF ANY TREES, PAVING OR STRUCTURES ARE TO BE REMOVED. PRIOR TO PLACING A BID ON THOSE ITEMS, THE CONTRACTOR SHALL CLEAR THE CONSTRUCTION AREA OF ALL EXISTING TREES, PAVING, STRUCTURES, ETC., UNLESS NOTED ON PLAN.
28. THE SUBJECT PROPERTY IS ZONED NEW TOWN - EMPLOYMENT CENTER INDUSTRIAL PER COMPREHENSIVE ZONING PLAN DATED 2-2-04.
29. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLANDS, STREAMS OR THEIR REQUIRED BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.
30. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
31. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT IN THE AMOUNT OF \$ 53,400.00 FOR 122 SHADE TREES, 112 EVERGREEN TREES.
32. THIS PROJECT IS EXEMPT FROM THE REQUIREMENTS OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY VIRTUE OF SECTION 16.1202(b)(1)(iv) WHICH PROVIDES THAT A PLANNED UNIT DEVELOPMENT (NEW TOWN) WHICH HAS PRELIMINARY PLAN APPROVAL AND 50% OR MORE OF THE LAND RECORDED AND SUBSTANTIALLY DEVELOPED PRIOR TO 12/31/92 IS EXEMPT.
33. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
34. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLAN COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 2243002 & 2443001 WERE USED FOR THIS PROJECT.
35. THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY WELLS AND ASSOCIATES DATED AUGUST 27, 2004.
36. ALL EXTERIOR LIGHTING SHALL COMPLY WITH SECTION 134, ZONING REGULATIONS. LIGHTING DETAIL AND PRELIMINARY LIGHTING DATA SHOWN ON THIS SHEET.
37. A DEVIATION OF STANDARDS WAS AUTHORIZED TO PERMIT SETBACKS OF LESS THAN 10 FEET FROM THE PROPERTY LINE TO THE PROPOSED DRIVE ASLE OPPOSITE THE NORTHEAST CORNER OF BUILDING A AND FROM THE PROPERTY LINE TO THE 10 SPACE PARKING BAY LOCATED SOUTHEAST OF BUILDING C.

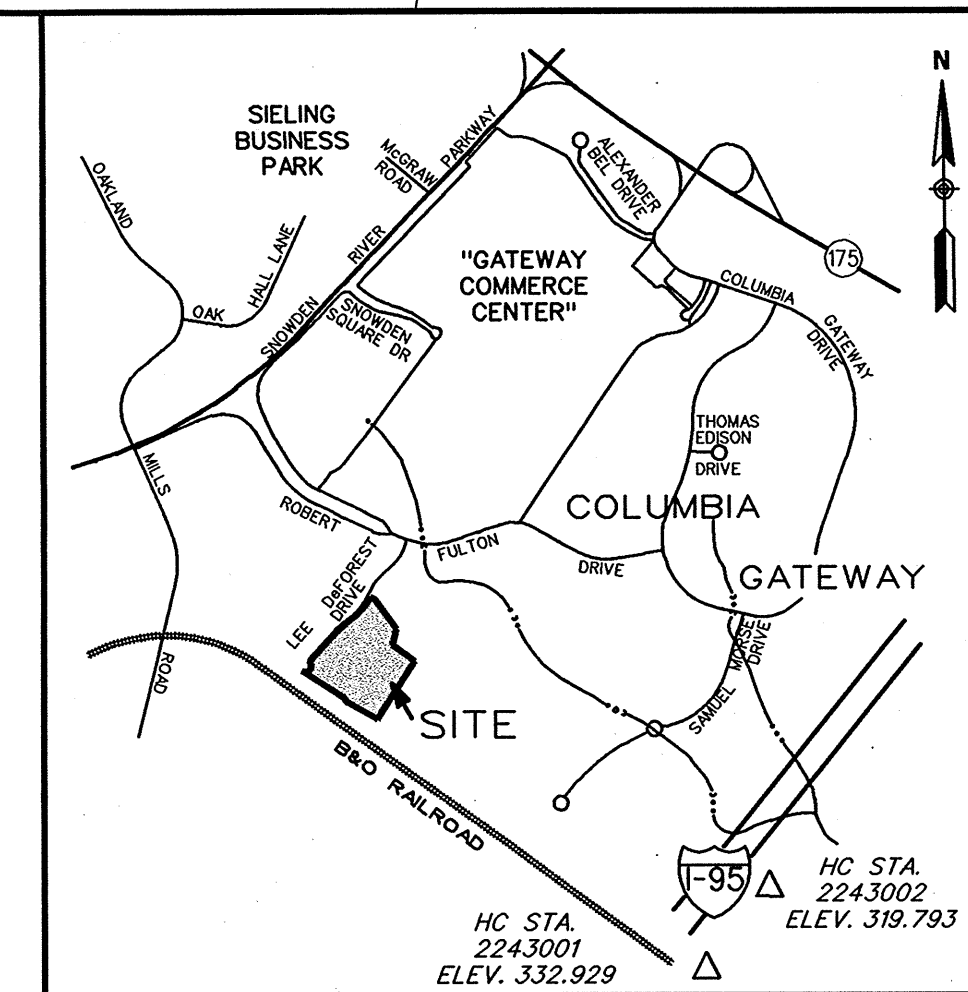
Site Development Plan for Proposed Offices

SDP 05-058

Parcel U-10

Columbia Gateway

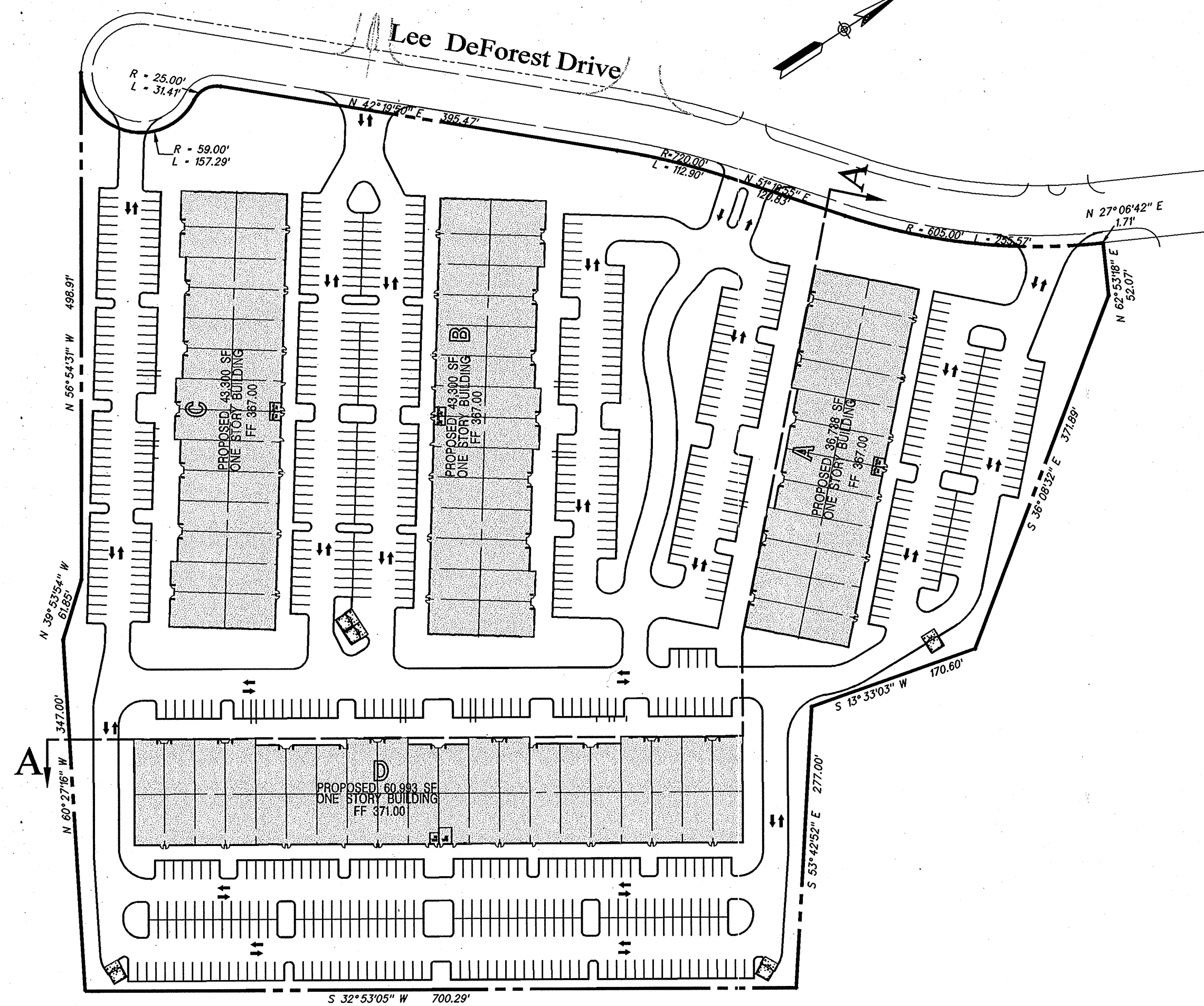
Howard County, Maryland



Vicinity Map

Scale 1" = 2000'
 COORDINATES AND BEARINGS ARE REFERRED TO THE SYSTEM OF COORDINATES ESTABLISHED IN THE MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROLS STATIONS: NAD 83. ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM-NVD 29 AND ARE BASED ON THE FOLLOWING HOWARD COUNTY SURVEY CONTROL STATIONS: (TRANSLATED METERS TO FEET).

2443002 ELEV. 319.793
 2443001 ELEV. 332.929



Proposed Layout
 Scale 1" = 100'

Site Analysis Data Chart

1. GENERAL SITE DATA
 CURRENT PLAT REFERENCE 17356 + 17357 F-05-039
 PRESENT ZONING NT (PER COMPREHENSIVE ZONING PLAN, DATED 2-2-04) NT-EC,IND.
 APPLICABLE DPZ FILE REFERENCES: S 85-55, ZB 969M, WP 93-48, WP 01-118, F 95-177, F 96-76, F 98-69, F 99-34, F 00-74, FDP PHASE 236-A-1 & F 01-189, PLATS 19961, 19962 AND 199963 F-01-189, F-05-039

PROPOSED USE: FOUR SINGLE STORY OFFICE BUILDINGS TOTTALING 184,331 SF
 NO. OF OCCUPANTS 369 ESTIMATED
 PROPOSED WATER: PUBLIC
 PROPOSED SEWER: PUBLIC
 WATER AND SEWER CONTRACT NUMBER 24-4255-D
 TAX ACCOUNT NUMBER 16-214418

2. AREA TABULATION
 TOTAL PROJECT AREA: 16.2546 ACRES
 AREA OF THIS PLAN SUBMISSION: 16.2546 ACRES
 TOTAL DISTURBED AREA: 16.40 ACRES
 FLOOR AREA RATIO: 184,331 SF (ULT.) GROSS FLOOR AREA = 0.260
 16.2546 ACRES

BUILDING COVERAGE TO SITE: 184,331 SF (ULT.) GROUND FLOOR AREA (4,232 acres) = 26.0% of gross area
 16.2546 ACRES

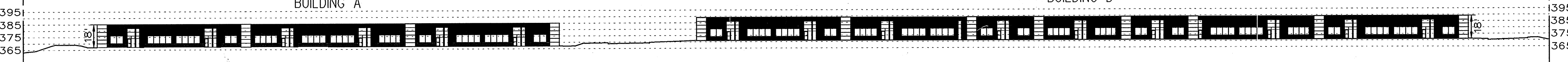
OPEN AREA PROVIDED: 5.21 acres = 32% of site area
 (AREA OF SITE MINUS BUILDING, DRIVEWAYS, PARKING LOTS) 16.2546 ACRES

3. OPEN SPACE DATA: N/A OPEN SPACE PROVIDED AS PART OF APPROVED SUBDIVISION

4. PARKING SPACE DATA
 PARKING REQUIRED: PER AMENDED FINAL DEVELOPMENT PLAN - COLUMBIA GATEWAY SECTION 2 PHASE 236-A-1
 184,331 SF @ 2 SPACES PER 1,000 SF OF NET LEASED AREA = 369 SPACES
 PARKING PROVIDED:
 TOTAL INCLUDES 748 SPACES PROVIDED
 723 STANDARD SPACES @ 9' X 18'
 17 STANDARD HANDICAP SPACES @ 21' X 18' TWO SIDE BY SIDE
 8 VAN ACCESSIBLE HANDICAP SPACES @ 24' X 18' TWO SIDE BY SIDE

PROPERTY LINE

PROPERTY LINE



Section A-A through Site
 Scale 1" = 50' Horz. & Vert.

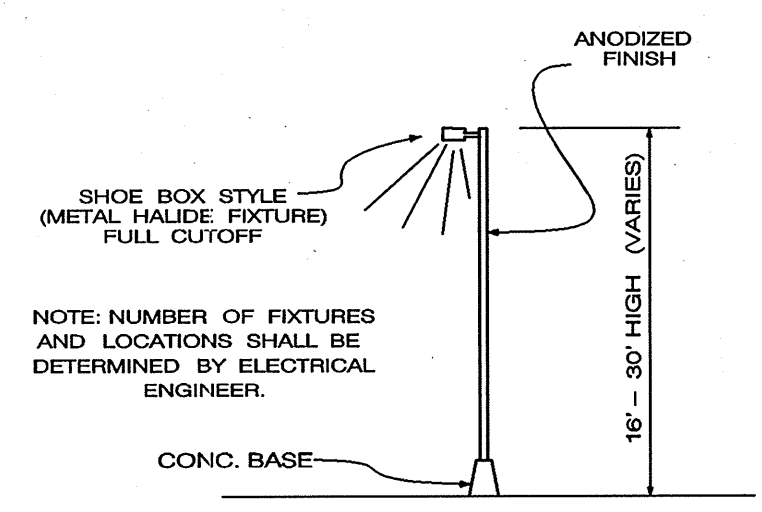
APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 12/08/04

| | |
|--|-----------------|
| APPROVED FOR PUBLIC (OR PRIVATE) WATER AND PUBLIC (OR PRIVATE) SEWERAGE SYSTEMS: | |
| N/A | Date |
| County Health Officer Howard County Health Department | |
| APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING | |
| <i>[Signature]</i> Chief, Development Engineering Division MK | 5/10/05 Date |
| <i>[Signature]</i> Chief, Division of Land Development | 5/19/05 Date |
| <i>[Signature]</i> Director | 5/13/05 Date |

| ADDRESS CHART | |
|---------------|-------------------------|
| Building | Street Address |
| A | 7221 Lee DeForest Drive |
| B | 7225 Lee DeForest Drive |
| C | 7227 Lee DeForest Drive |
| D | 7223 Lee DeForest Drive |

| PERMIT INFORMATION CHART | | | |
|--------------------------------------|-----------------------|-------------------------|---------------------------|
| Subdivision Name Columbia Gateway | Section /Area 2 | Lot /Parcel No. U-10 | Tax Parcel No. 6067.03 |
| Plat or Liber/Folio 17356 + 17357 | Grid # 12 | Zoning NT-EC,IND | Tax Map No. 6th |
| Water Code E 06 | Sewer Code 4900000 | | |

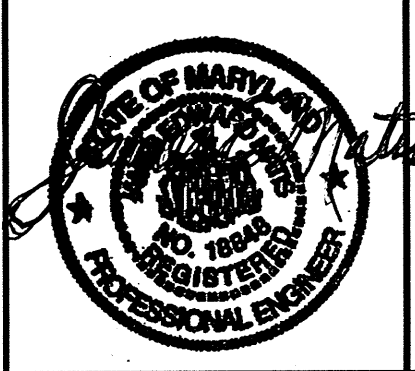
| SHEET INDEX | |
|-------------|---|
| SHEET | TITLE |
| C-1 | COVER SHEET |
| C-2 | SITE DEVELOPMENT PLAN SHEET 1 |
| C-3 | SITE DEVELOPMENT PLAN SHEET 2 |
| C-4 | SITE DETAILS |
| C-5 | SITE DETAILS SHEET 2 |
| C-6 | STORM WATER DRAINAGE AREA MAP & STORM DRAIN DETAILS |
| C-7 | WATER & SEWER PROFILES |
| C-8 | STORM DRAIN PROFILES |
| C-9 | STORM DRAIN PROFILES SHEET 2 |
| C-10 | SEDIMENT & EROSION CONTROL PLAN SHEET 1 |
| C-11 | SEDIMENT & EROSION CONTROL PLAN SHEET 2 |
| C-12 | SEDIMENT CONTROL DRAINAGE AREA MAP & DETAILS |
| C-13 | FINAL LANDSCAPE PLAN |
| C-14 | FINAL LANDSCAPE DETAILS |



| Lighting Data | | | |
|---------------|-----|---------------|--------------|
| Symbol | Qty | Description | Manufacturer |
| ■ | 39 | Standard 400W | |

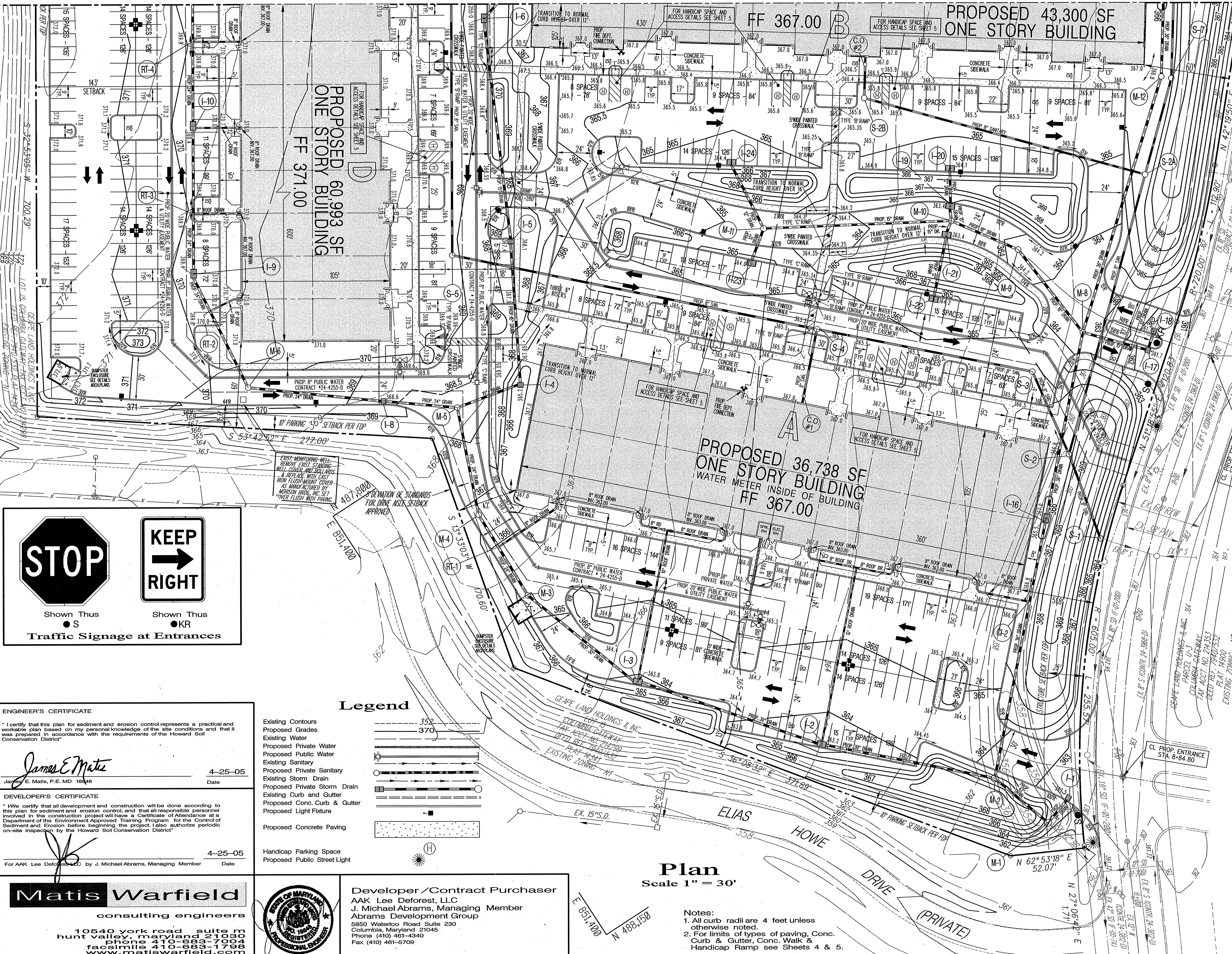
For informational purposes only. Site lighting shall be designed by electrical engineer. Location and types of fixtures, number of heads, pole heights subject to change but shall comply with Section 134 of the Howard County Zoning Regulations.

Matis Warfield
 consulting engineers
 10540 York Road Suite 100
 Hunt Valley, Maryland 21030
 phone 410-683-7004
 facsimile 410-683-1798
 www.matiswarfield.com



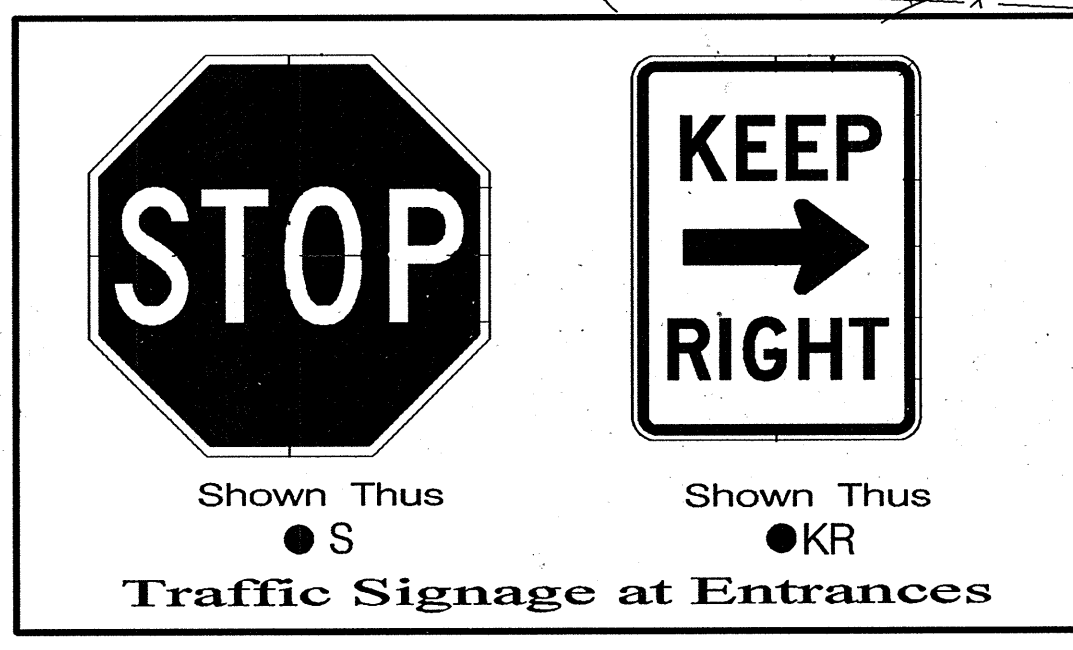
Developer / Contract Purchaser
 AAK Lee Deforest, LLC
 J. Michael Abrams, Managing Member
 Abrams Development Group
 5850 Waterloo Road Suite 230
 Columbia, Maryland 21045
 Phone (410) 461-4340
 Fax (410) 461-5709

Cover Sheet
Proposed Office Buildings
Parcel U-10
Columbia Gateway
 Howard County, Maryland
 Scale: As Shown
 April 25, 2005
 Sheet 1 of 14
 SDP 05-058



Lee DeForest Drive

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 12/08/04



ENGINEER'S CERTIFICATE

I 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 Soil Conservation District.

James E. Matz
James E. Matz, P.E. MD 18448
Date 4-25-05

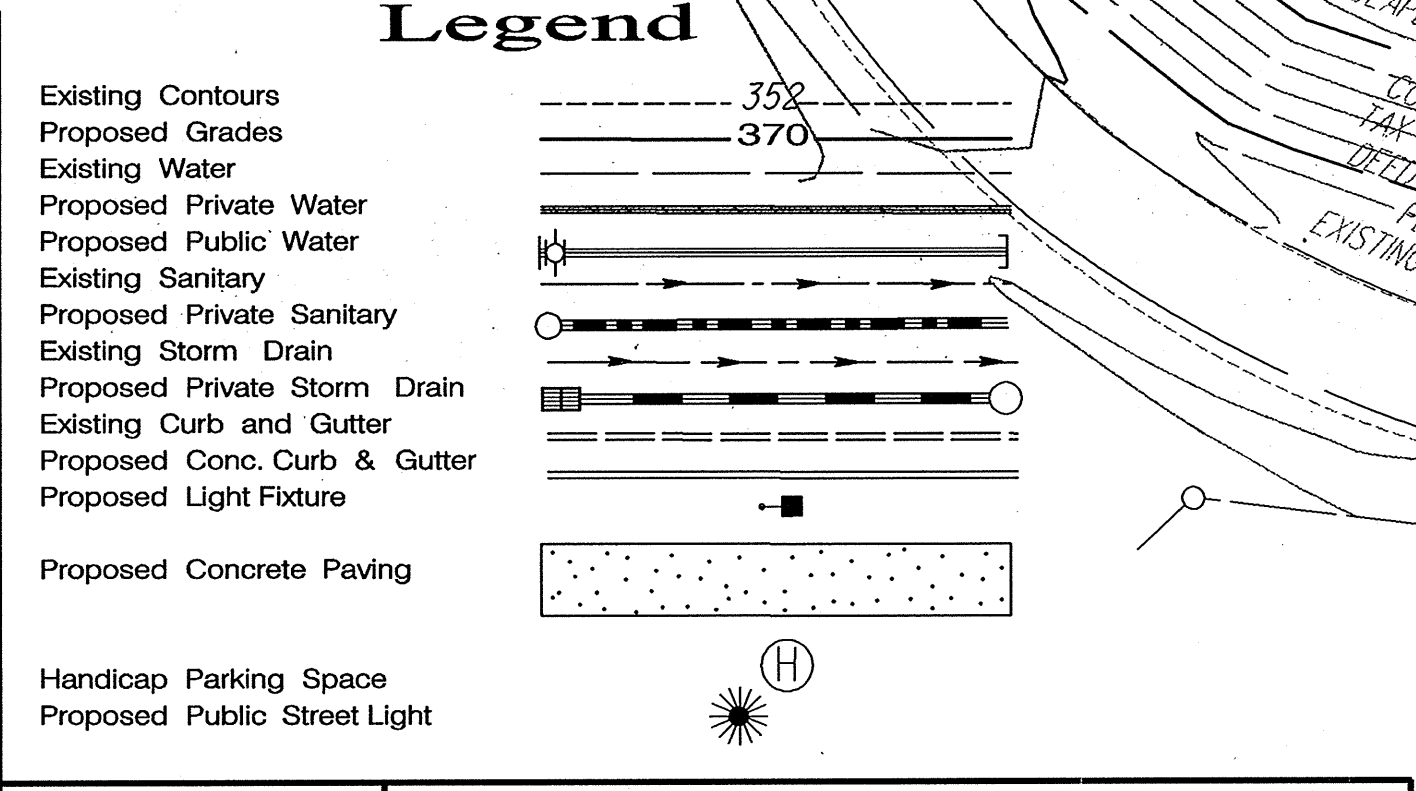
DEVELOPER'S CERTIFICATE

I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a 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 Howard Soil Conservation District.

J. Michael Abrams
For AAK Lee DeForest LLC by J. Michael Abrams, Managing Member
Date 4-25-05

Matis Warfield
consulting engineers

10540 York Road, Suite 100
Hunt Valley, Maryland 21086
Phone 410-683-7004
Facsimile 410-683-1798
www.matiswarfield.com



PROPOSED 60,993 SF ONE STORY BUILDING
FF 371.00

PROPOSED 43,300 SF ONE STORY BUILDING
FF 367.00

PROPOSED 36,738 SF ONE STORY BUILDING
WATER METER INSIDE OF BUILDING
FF 367.00

Plan
Scale 1" = 30'

Notes:

- All curb radii are 4 feet unless otherwise noted.
- For limits of types of paving, Conc. Curb & Gutter, Conc. Walk & Handicap Ramp see Sheets 4 & 5.

Reviewed for Howard SCD and meets Technical Requirements

USDA - Natural Resources Conservation Service Date

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT

Howard SCD Date

APPROVED FOR PUBLIC (OR PRIVATE) WATER AND PUBLIC (OR PRIVATE) SEWERAGE SYSTEMS:

County Health Officer Howard County Health Department Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Michael Matz 5/16/05
Chief, Development Engineering Division MK Date

Andy Dennis 5/17/05
Chief, Land Development Division Date

Patricia A. Coughlin 5/17/05
Director Date

ADDRESS CHART

| Building | Street Address |
|----------|-------------------------|
| A | 7221 Lee DeForest Drive |
| B | 7225 Lee DeForest Drive |
| C | 7227 Lee DeForest Drive |
| D | 7223 Lee DeForest Drive |

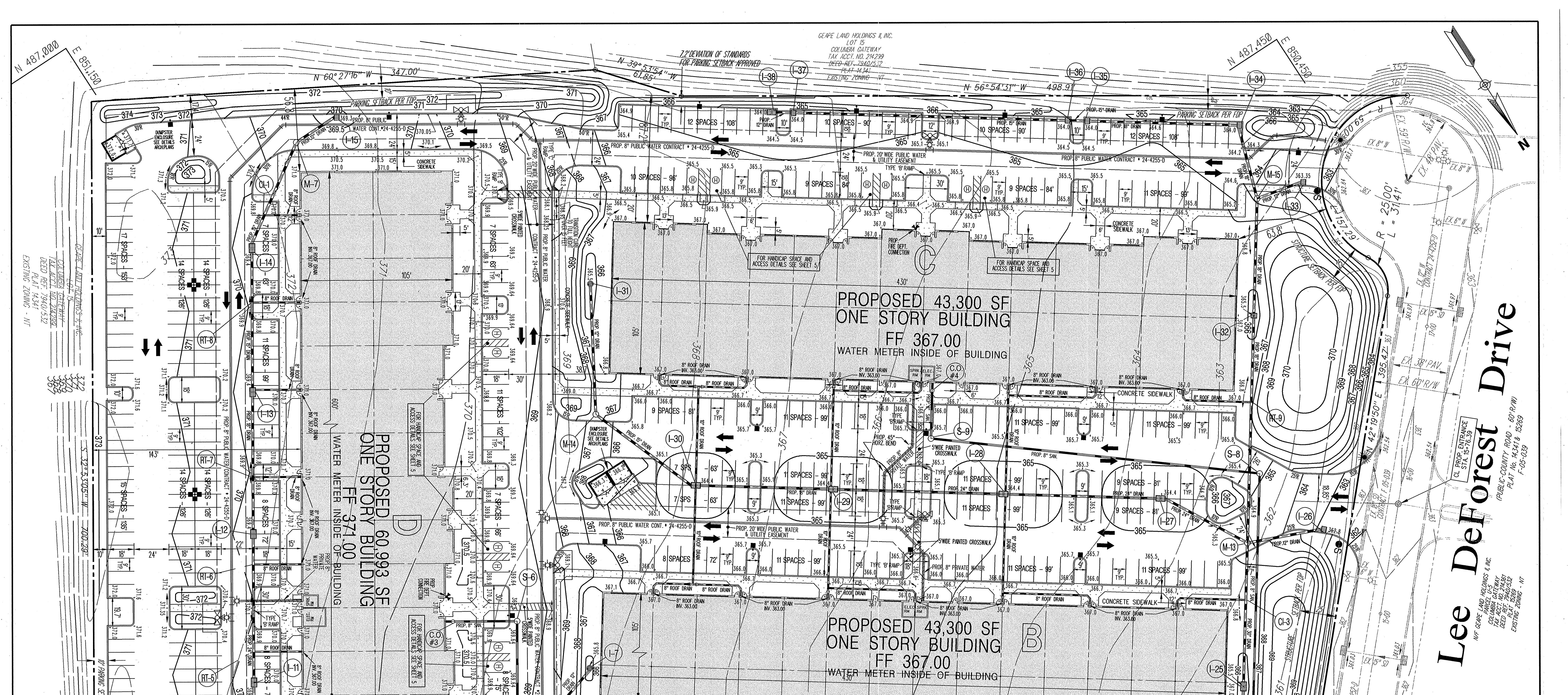
PERMIT INFORMATION CHART

| Subdivision Name | Section /Area | Lot /Parcel No. U-10 |
|--------------------|-------------------|----------------------|
| Columbia Gateway | 2 | |
| Plat or LiberFolio | Grid # | Zoning |
| 17356 + 17357 | 12 | NT |
| Water Code | Election District | Tax Parcel #21 |
| E 06 | 6th | 6067.03 |
| | Sewer Code | |
| | 4900000 | |

Site Development Plan
Proposed Offices
Parcel U-10
Columbia Gateway

Howard County, Maryland Scale: As Shown April 25, 2005 Sheet 2 of 14 SDP 05-058

SDP-05-058



MATCH LINE SEE SHEET 2 of 14

Legend

- Existing Contours
- Proposed Grades
- Existing Water
- Proposed Private Water
- Proposed Public Water
- Existing Sanitary
- Proposed Private Sanitary
- Existing Storm Drain
- Proposed Private Storm Drain
- Existing Curb and Gutter
- Proposed Conc. Curb & Gutter
- Proposed Light Fixture
- Proposed Concrete Paving
- Handicap Parking Space
- Proposed Public Street Light

Plan
Scale 1" = 30'

ENGINEER'S CERTIFICATE
I 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 Soil Conservation District.

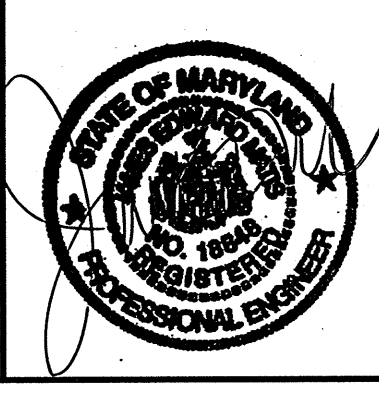
James E. Matis
James E. Matis, P.E. MD 18448
4-25-05
Date

DEVELOPER'S CERTIFICATE
We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a 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 Howard Soil Conservation District.

J. Michael Abrams
For AAK Lee Deforest, LLC by J. Michael Abrams, Managing Member
4-25-05
Date

Matis Warfield
consulting engineers

10540 York Road, Suite 100
Hunt Valley, Maryland 21031
Phone 410-883-7004
Facsimile 410-883-1798
www.matiswarfield.com



Developer/Contract Purchaser
AAK Lee Deforest, LLC
J. Michael Abrams, Managing Member
Abrams Development Group
5850 Waterloo Road Suite 230
Columbia, Maryland 21045
Phone (410) 461-4340
Fax (410) 461-5709

Notes:
1. All curb radii are 4 feet unless otherwise noted.
2. For limits of types of paving, Conc. Curb & Gutter, Conc. Walk & Handicap Ramp see Sheets 4 & 5.

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 12/09/04

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Howard County Planning Board
Chief, Development Division MK
Chief, Land Development Division
Director

5/16/05
5/19/05
7/15/05
Date

| ADDRESS CHART | |
|---------------|-------------------------|
| Building | Street Address |
| A | 7221 Lee DeForest Drive |
| B | 7225 Lee DeForest Drive |
| C | 7227 Lee DeForest Drive |
| D | 7223 Lee DeForest Drive |

| PERMIT INFORMATION CHART | | | |
|--------------------------|----------------|------------------|----------------|
| Subdivision Name | Section / Area | Lot / Parcel No. | U-10 |
| Columbia Gateway | 2 | U-10 | |
| Plat or LiberFolio | Grid # | Tax Map No. | Tax Parcel #21 |
| 17356 + 17357 | 12 | 42 | 6067.03 |
| Water Code | Sewer Code | | |
| E 06 | 4900000 | | |

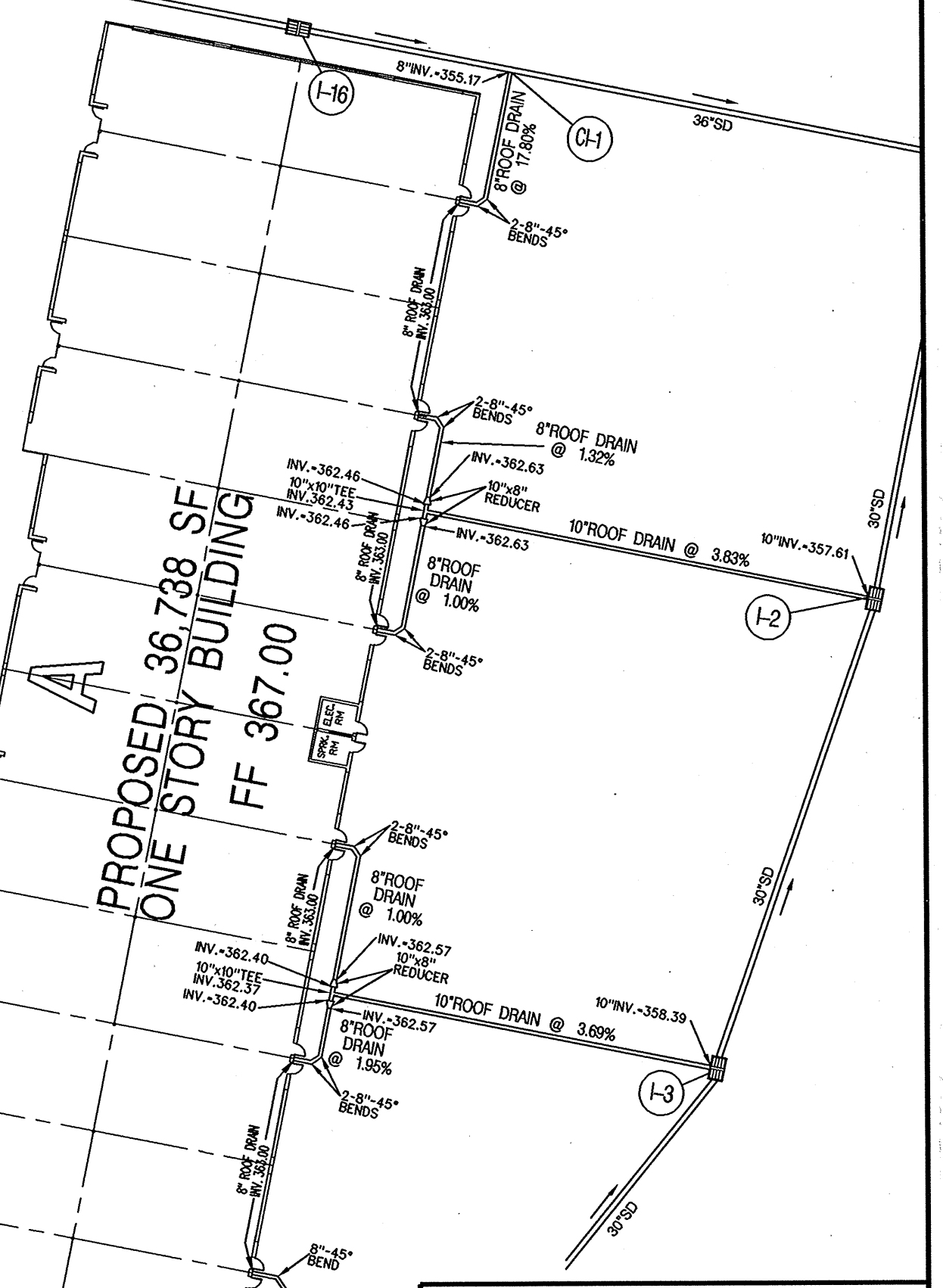
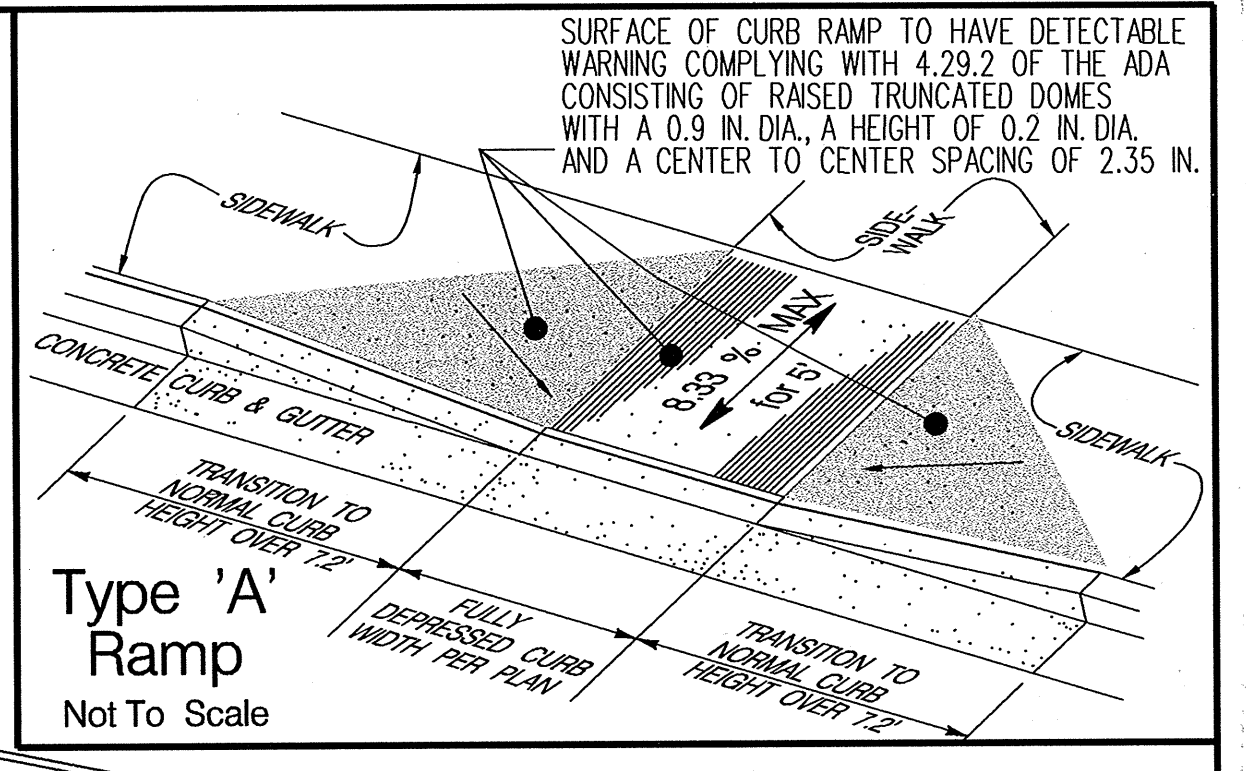
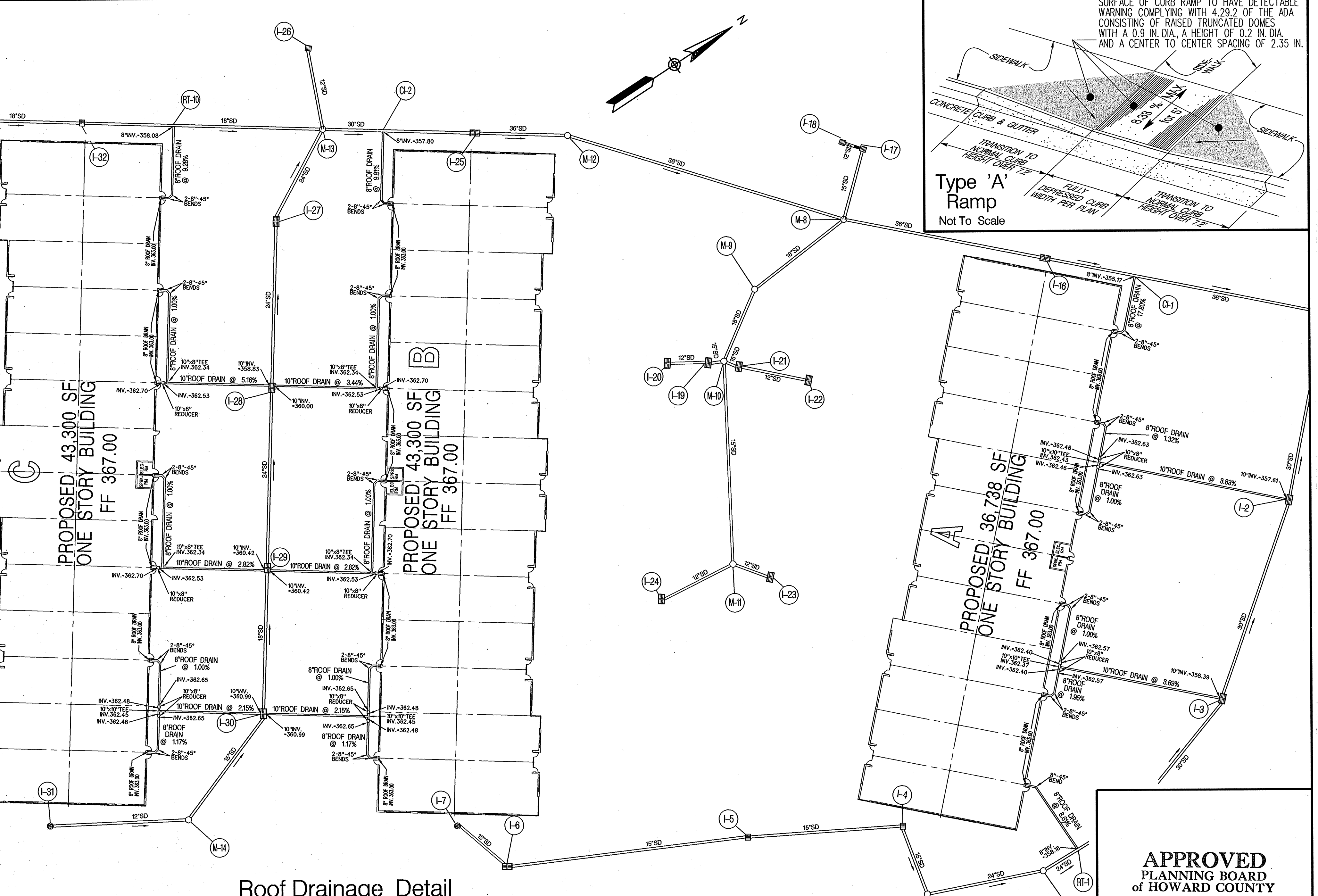
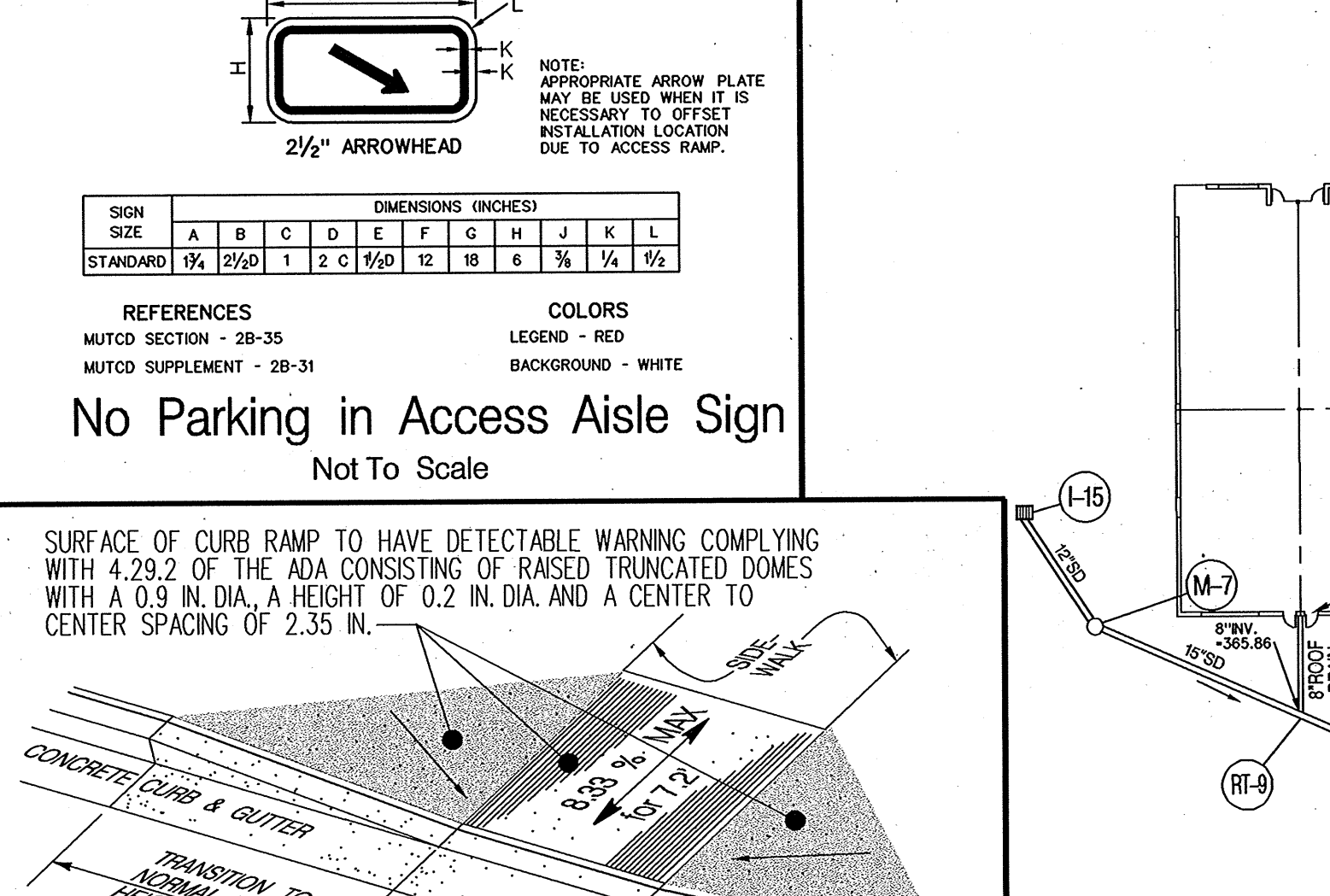
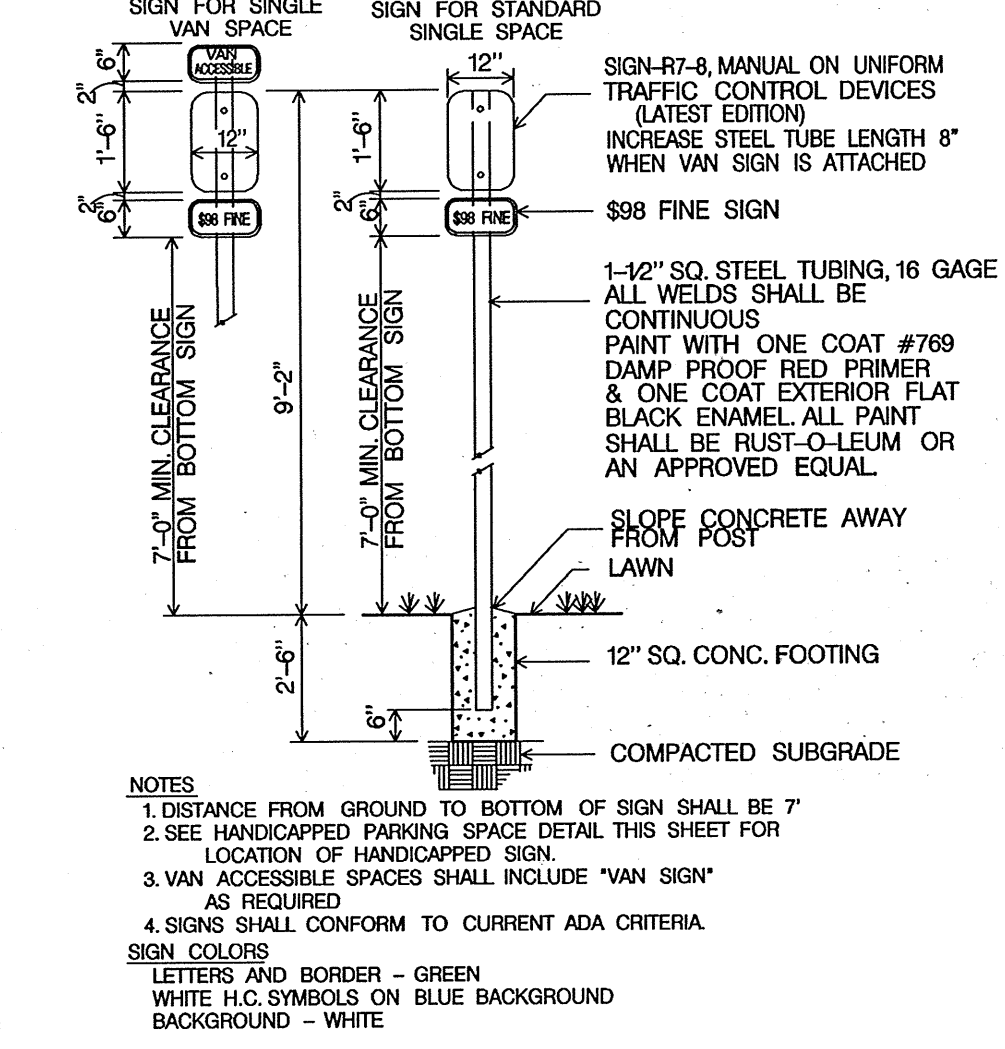
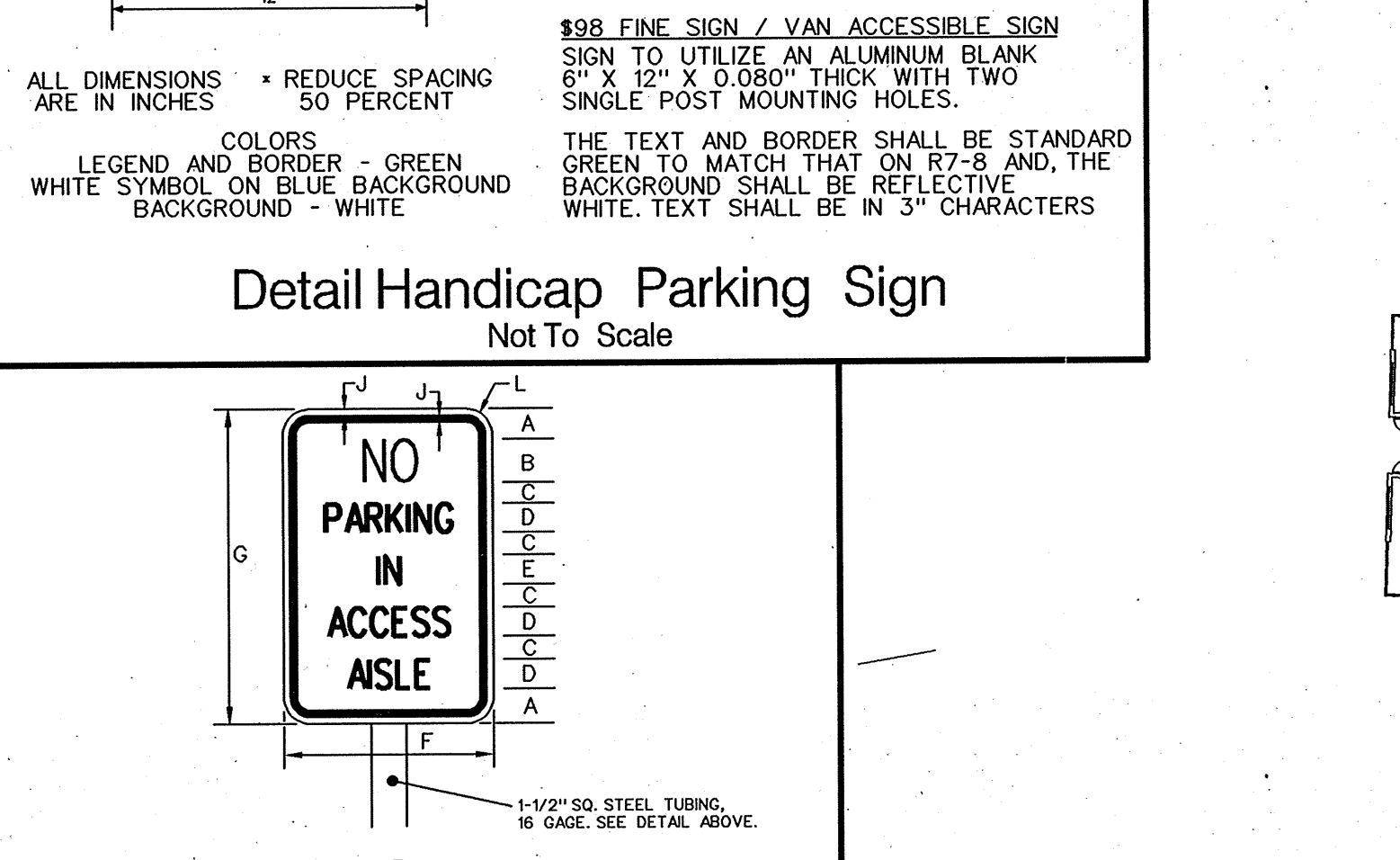
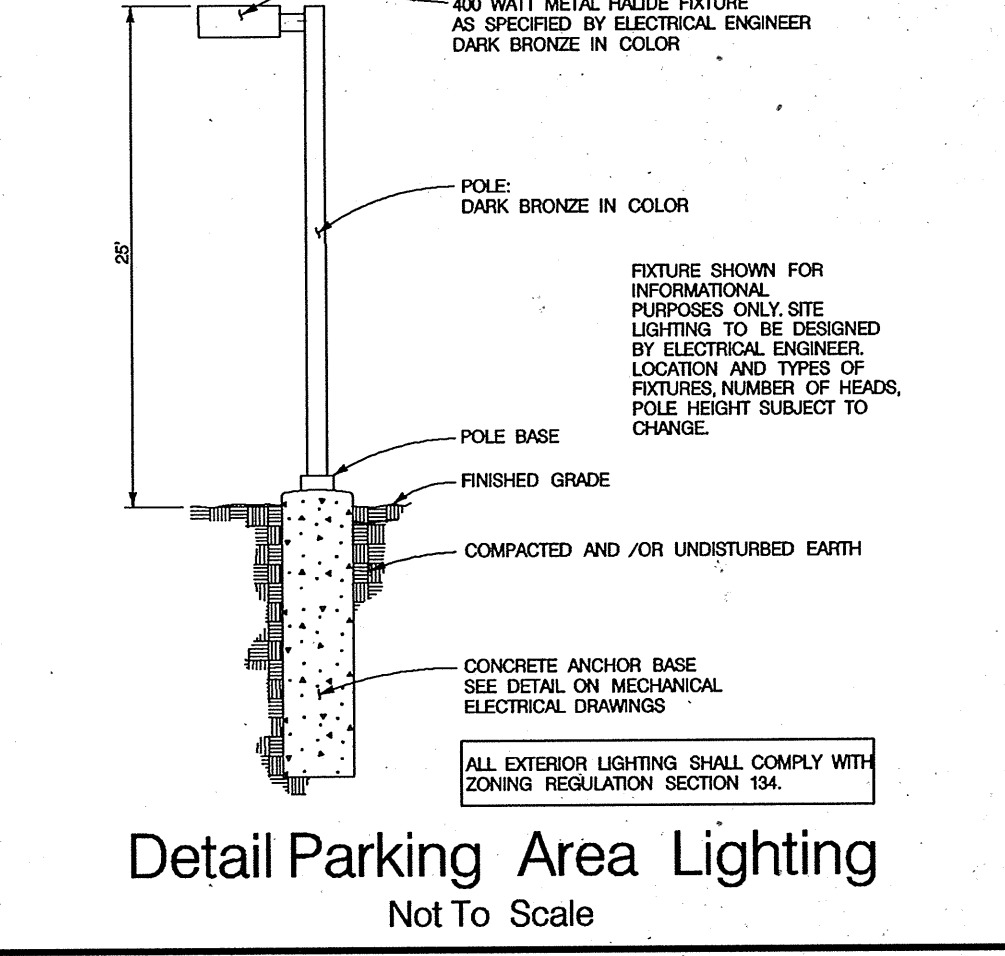
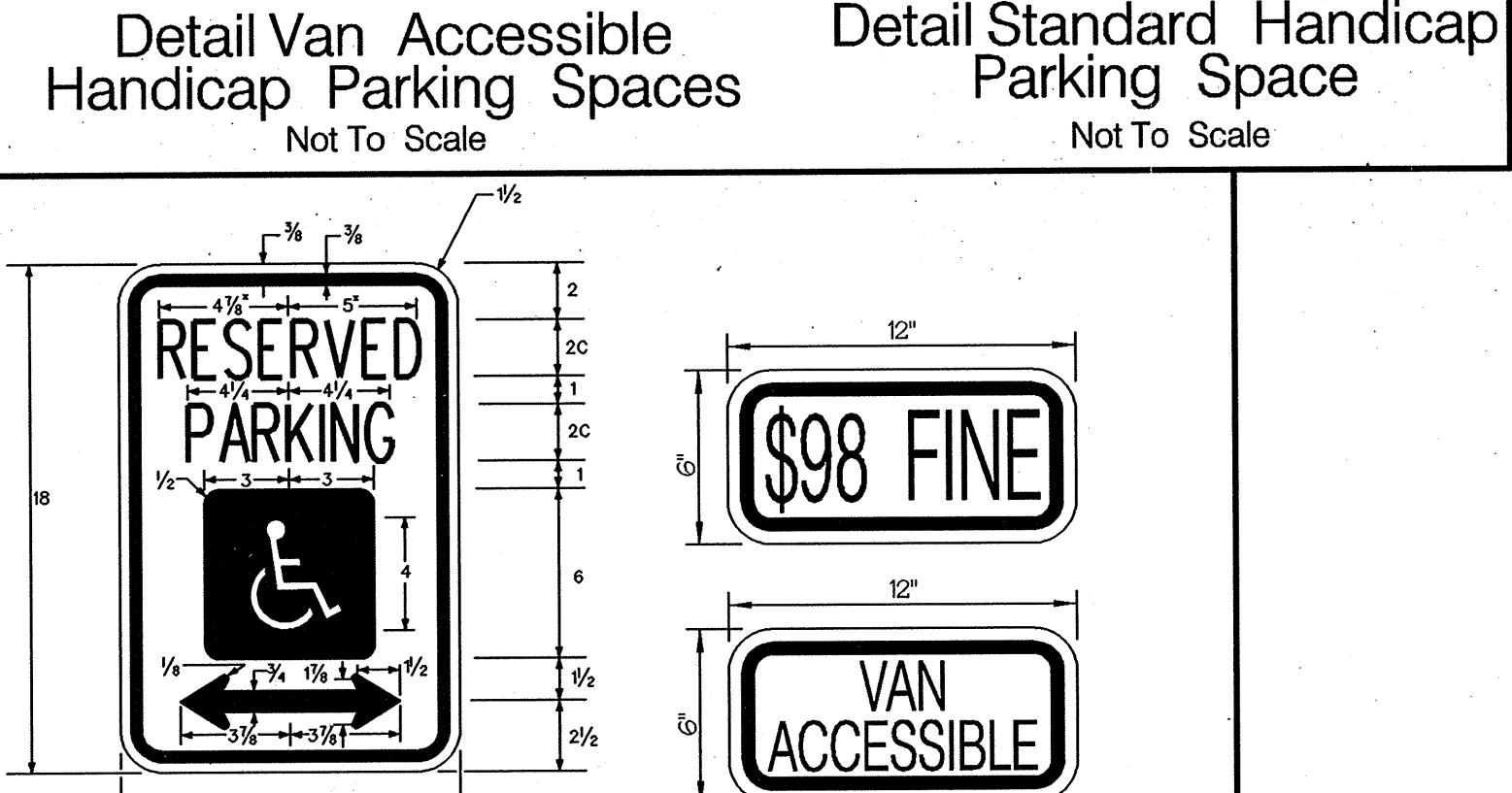
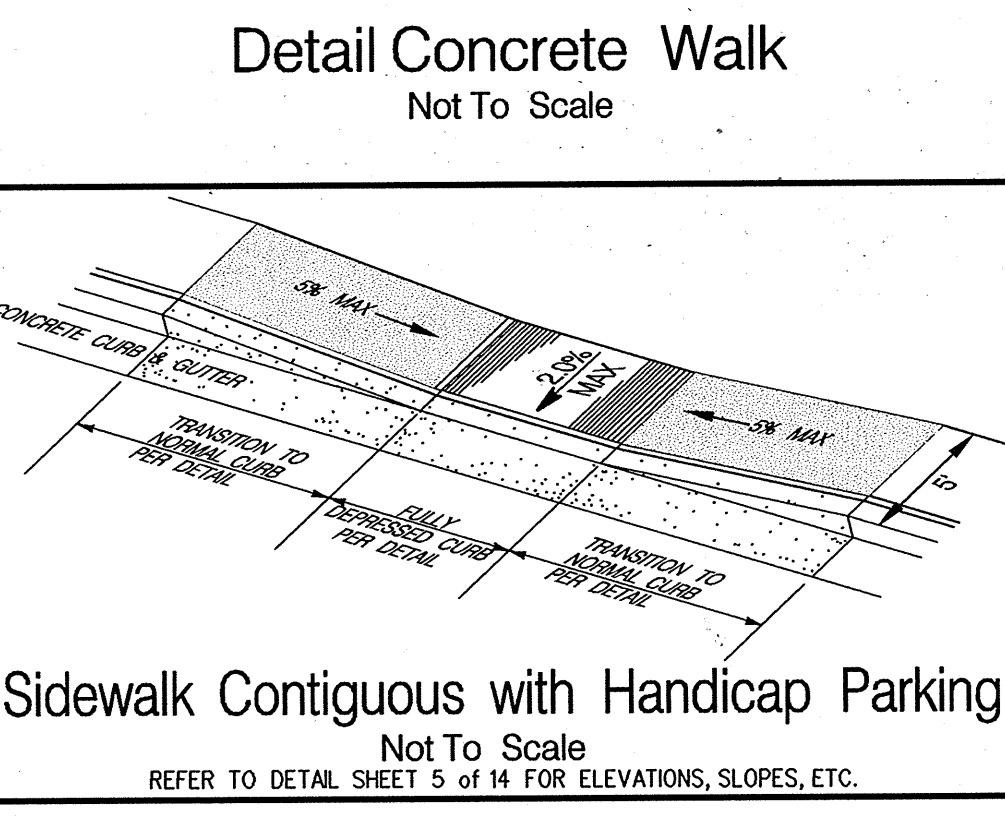
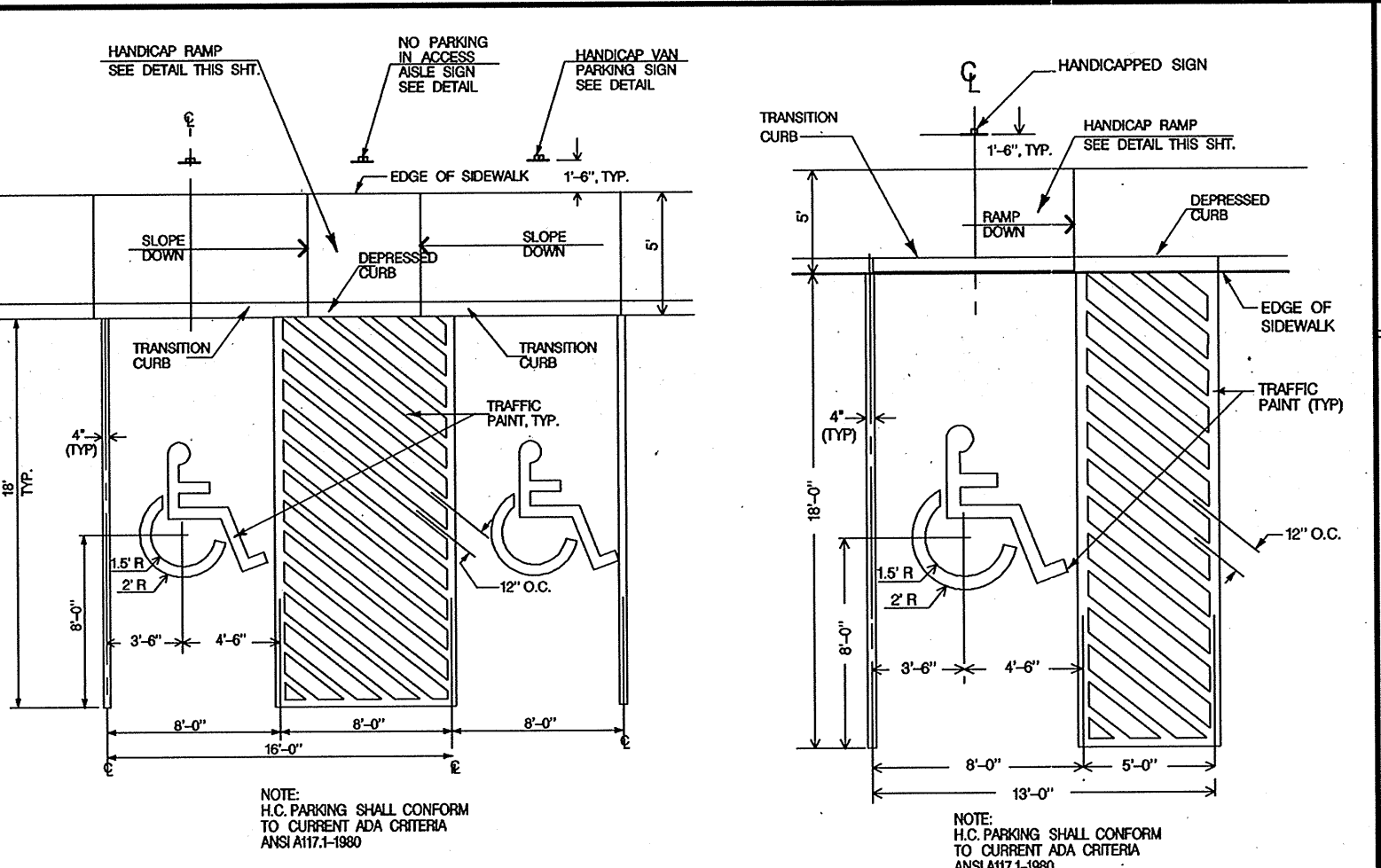
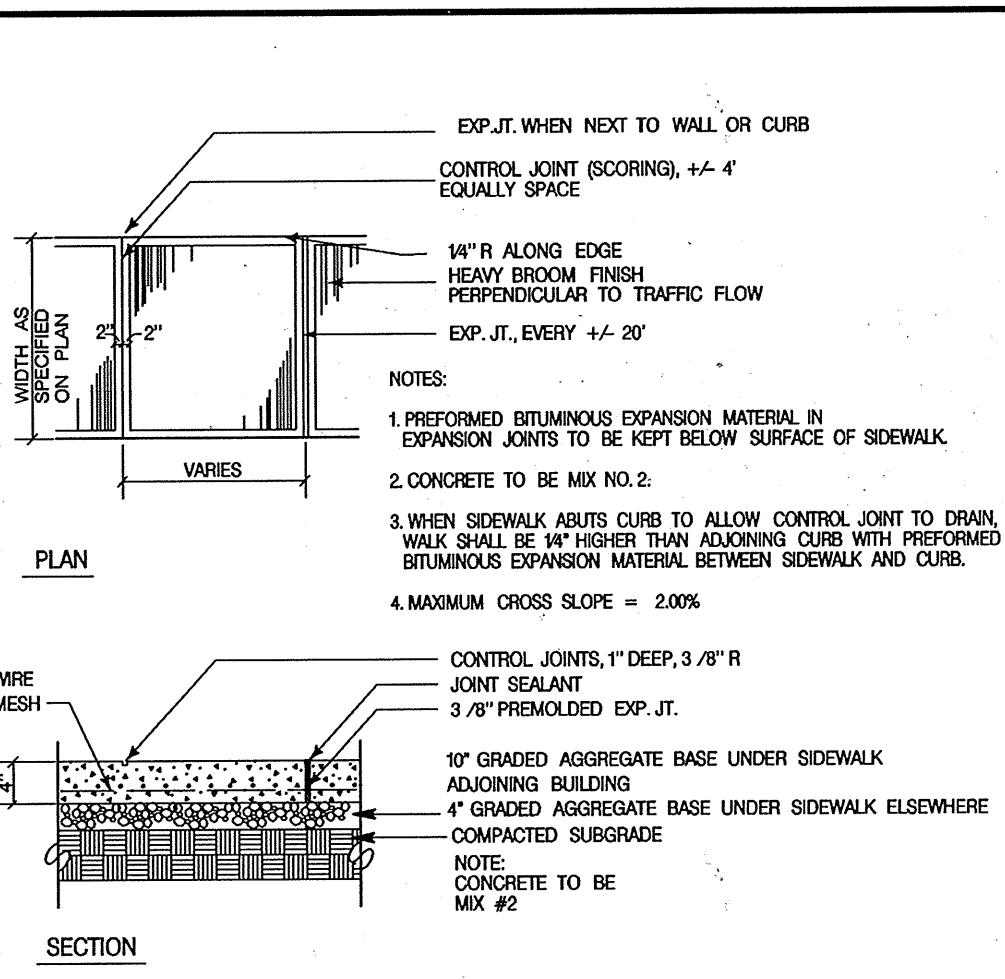
Site Development Plan
Proposed Offices
Parcel U-10
Columbia Gateway

Howard County, Maryland
Scale: As Shown
April 25, 2005

Sheet 3 of 14
SDP 05-058

| | |
|--|------|
| Reviewed for Howard SCD and meets Technical Requirements | Date |
| USDA - Natural Resources Conservation Service | Date |
| This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT | Date |
| APPROVED FOR PUBLIC (OR PRIVATE) WATER AND PUBLIC (OR PRIVATE) SEWERAGE SYSTEMS: | Date |
| County Health Officer Howard County Health Department | Date |

Lee DeForest Drive
PUBLIC COUNTY ROAD - 60' R/W
PLAT NO. 14341 & 15269
F-05-039



APPROVED FOR PUBLIC (OR PRIVATE) WATER AND PUBLIC (OR PRIVATE) SEWERAGE SYSTEMS

NIA
County Health Officer Howard County Health Department Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Michael J. Williams 5/16/05
Chief, Development Engineering Division MK Date

David Hamilton 5/19/05
Chief, Division of Land Development Date

David P. Wyle 5/18/05
Director Date

PERMIT INFORMATION CHART

| | | |
|--------------------------------------|-----------------------|---|
| Subdivision Name Columbia Gateway | Section /Area 2 | Lot /Parcel No. U-10 Tax Parcel 671 |
| Plat or Liber/Folio 17366 + 17367 | Grid # 12 | Zoning NT |
| Water Code E 06 | Tax Map No. 42 | Election District 6th |
| | Sewer Code 4900000 | Census Tract 6067.03 |

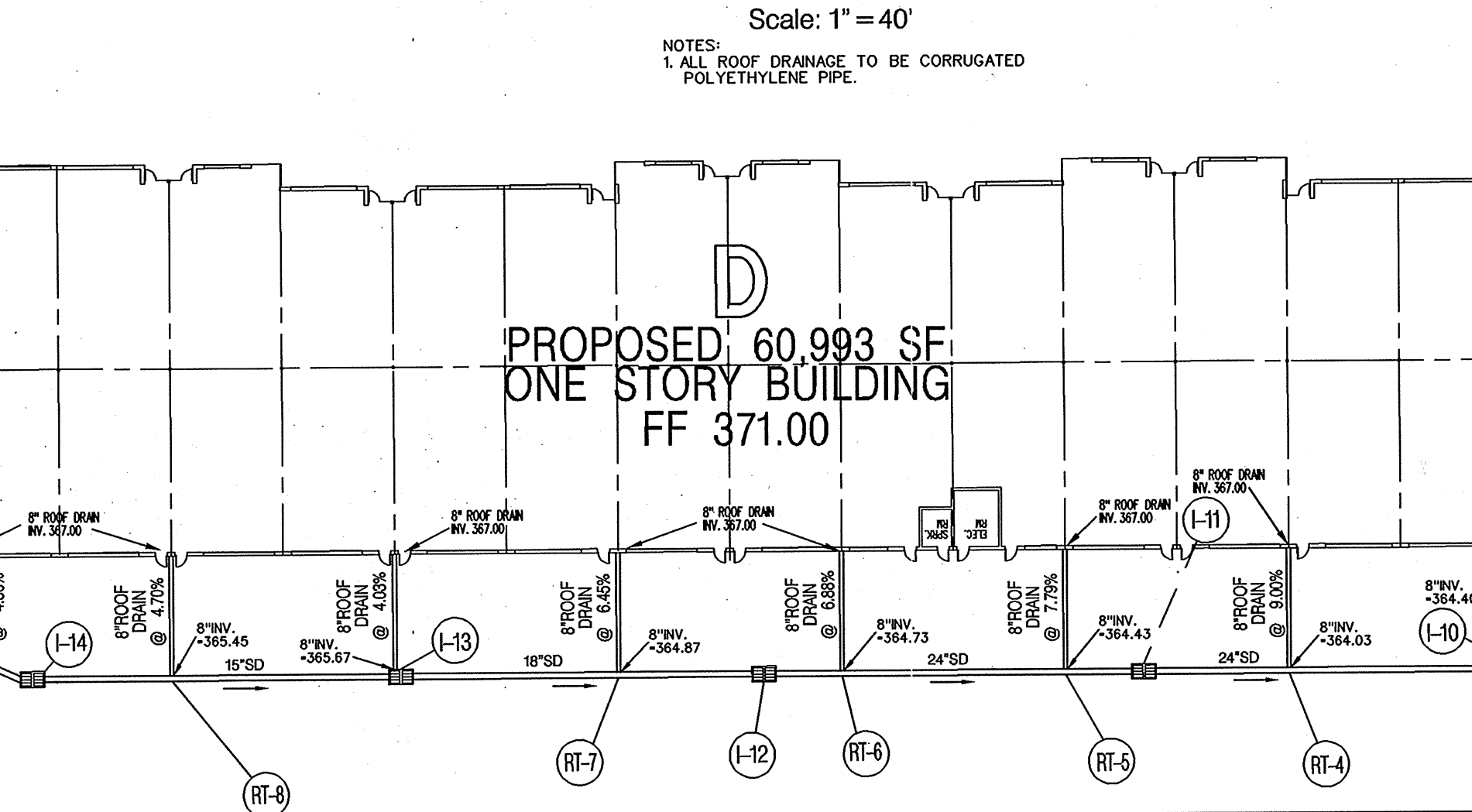
Matis Warfield
consulting engineers

10540 York Road, Suite 100
Hunt Valley, MD 21031
Phone 410-683-7994
Fax 410-683-7993
www.matiswarfield.com

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER

Developer /Contract Purchaser
AAK Lee Deforest, LLC
J. Michael Abrams, Managing Member
Abrams Development Group
5850 Waterloo Road, Suite 230
Columbia, Maryland 21045
Phone (410) 461-4840
Fax (410) 461-5709

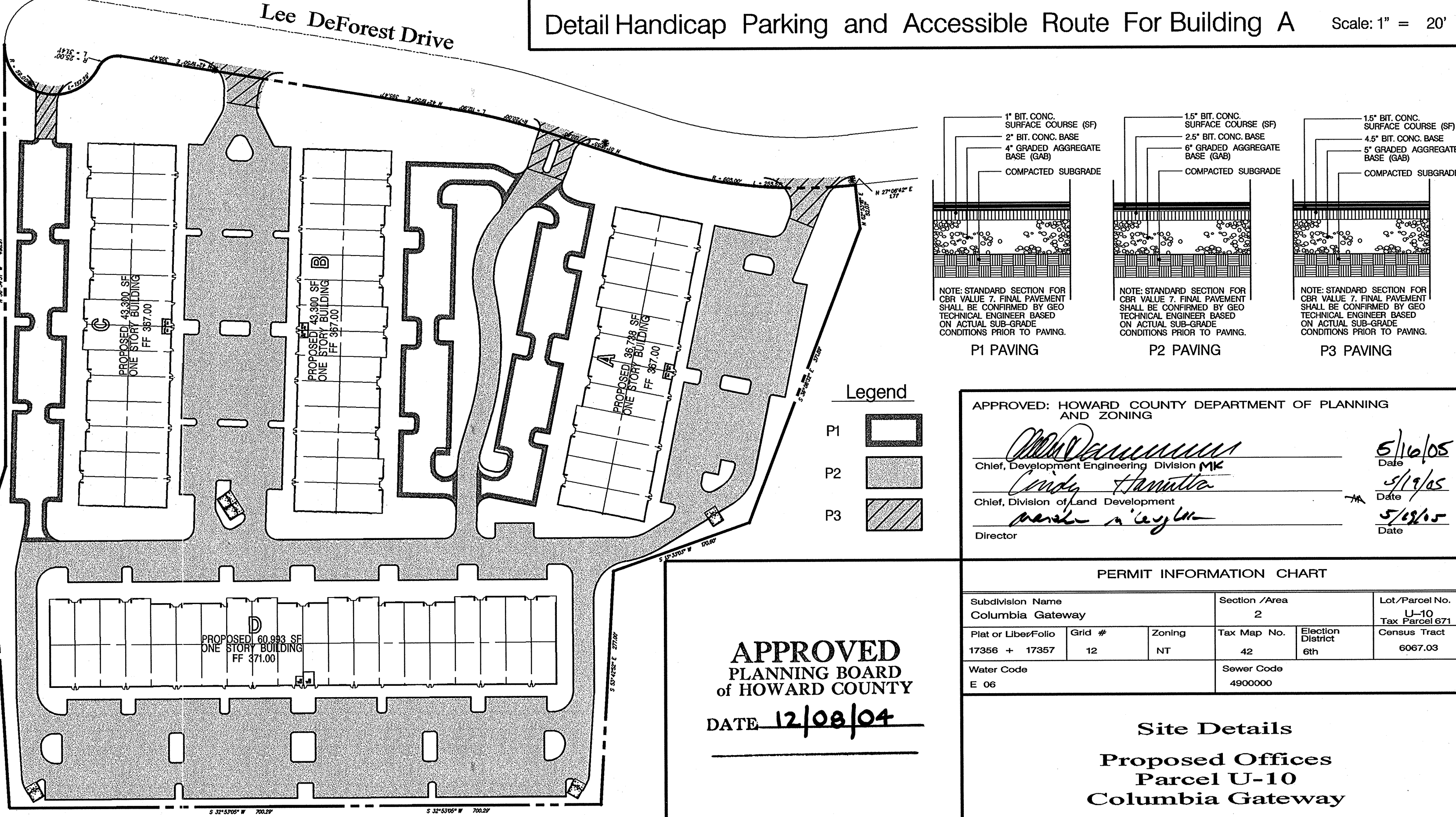
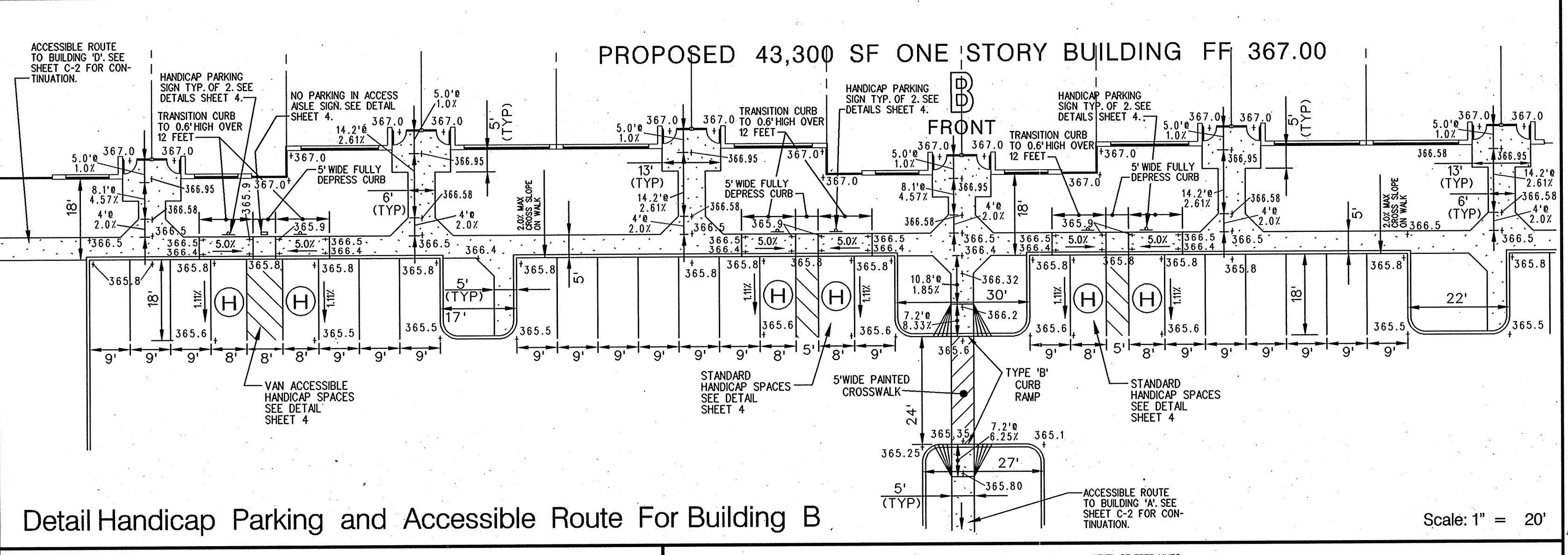
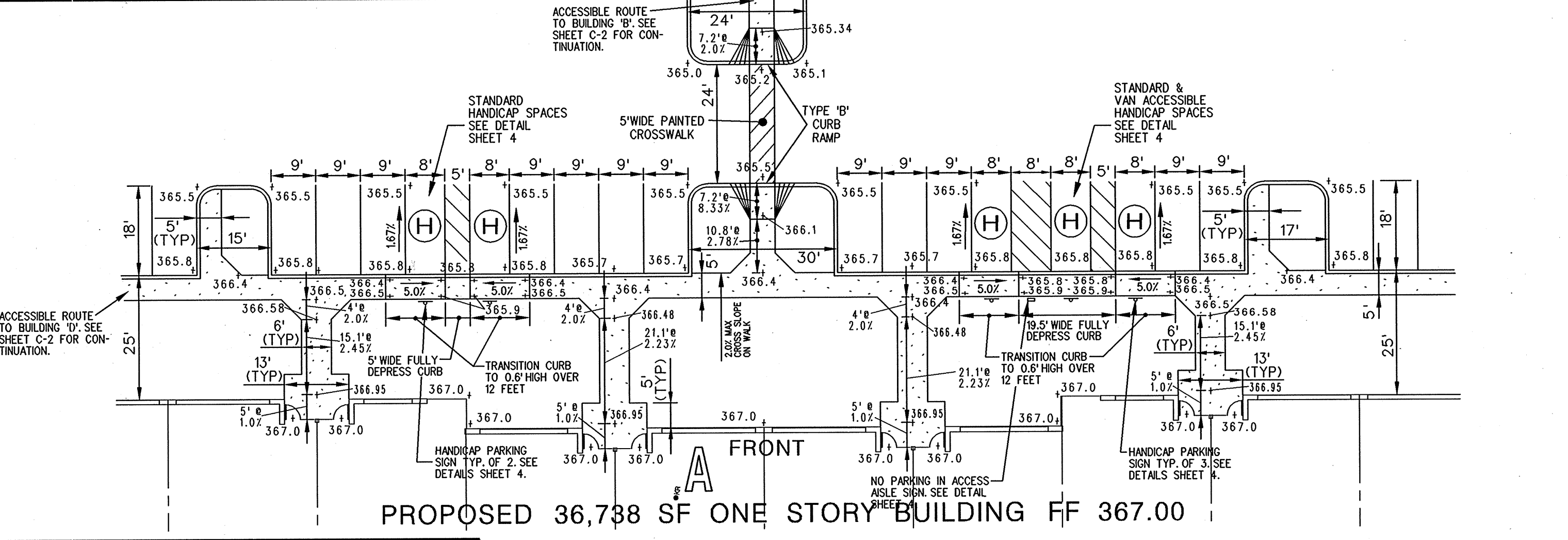
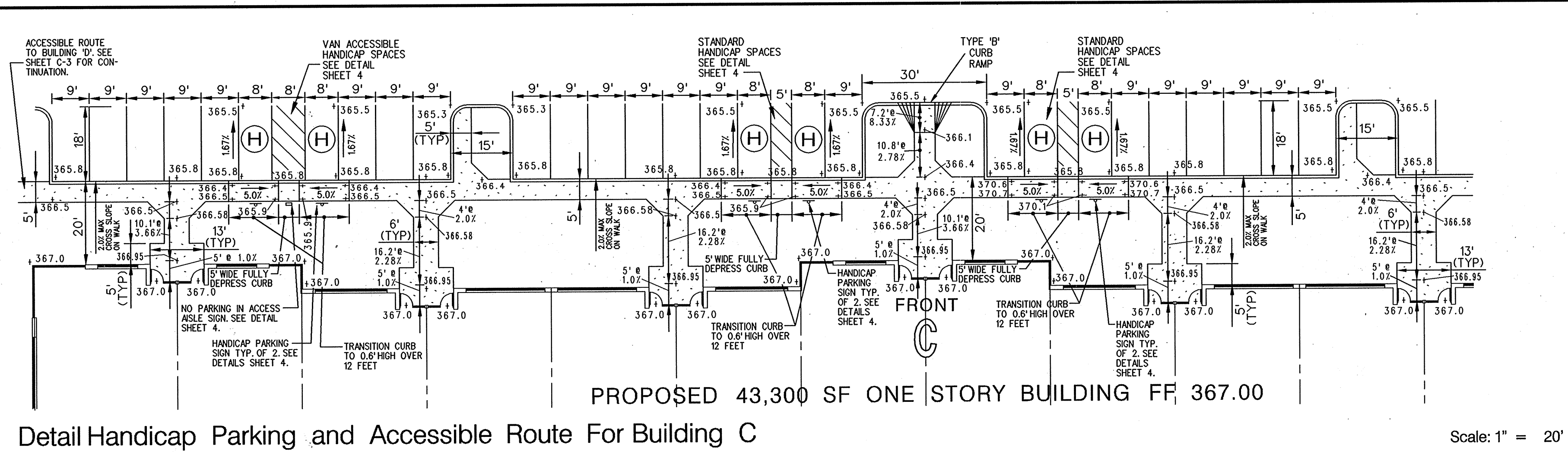
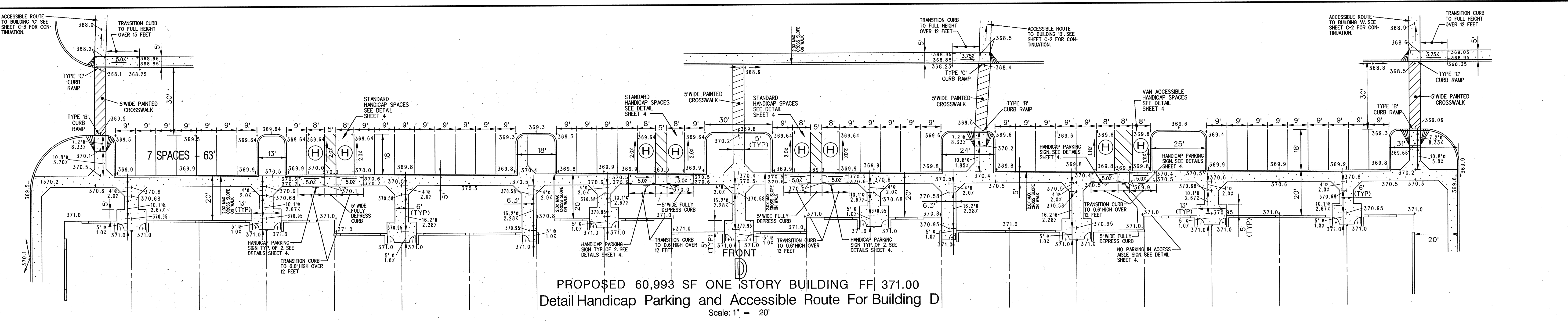
Type 'C' Ramp
Not To Scale



Site Details
Proposed Offices
Parcel U-10
Columbia Gateway

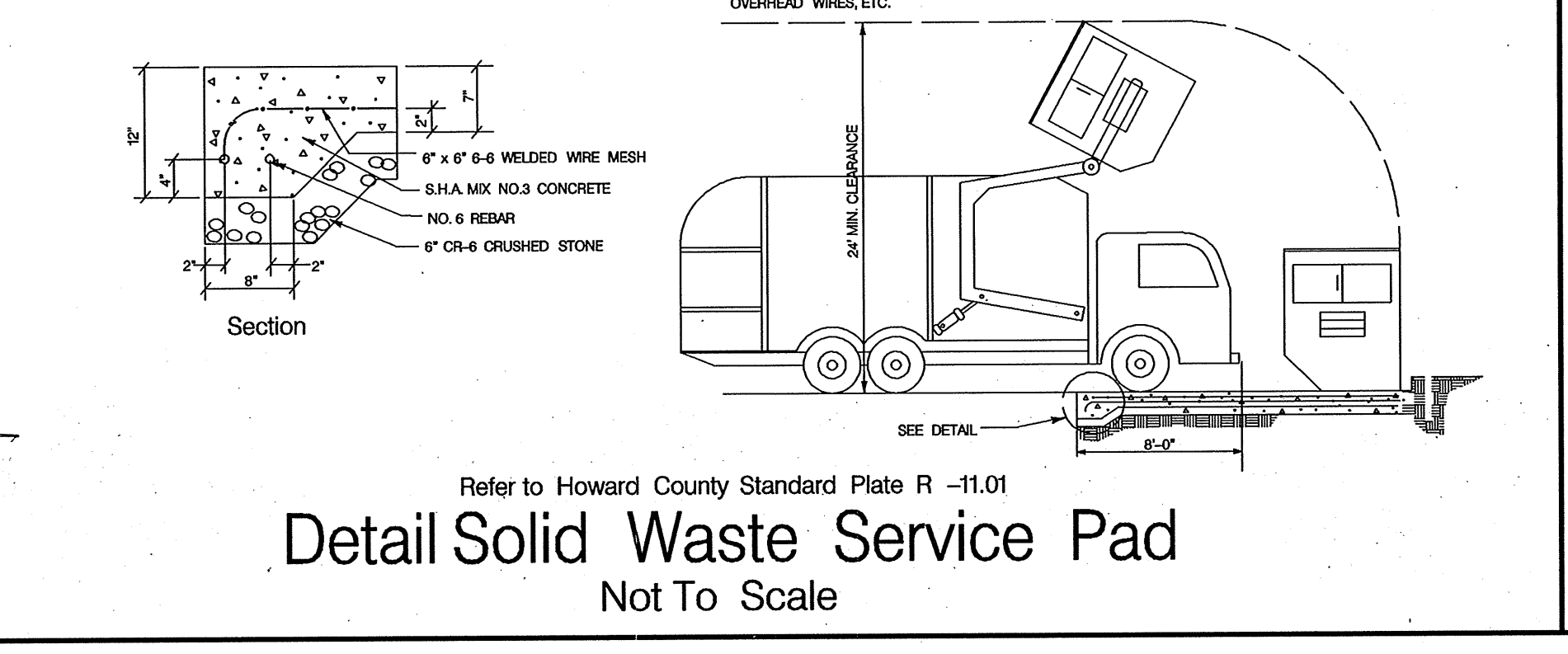
HOWARD COUNTY, MARYLAND
Scale: As Shown
April 25, 2005

Sheet 4 of 14
SDP 05-058



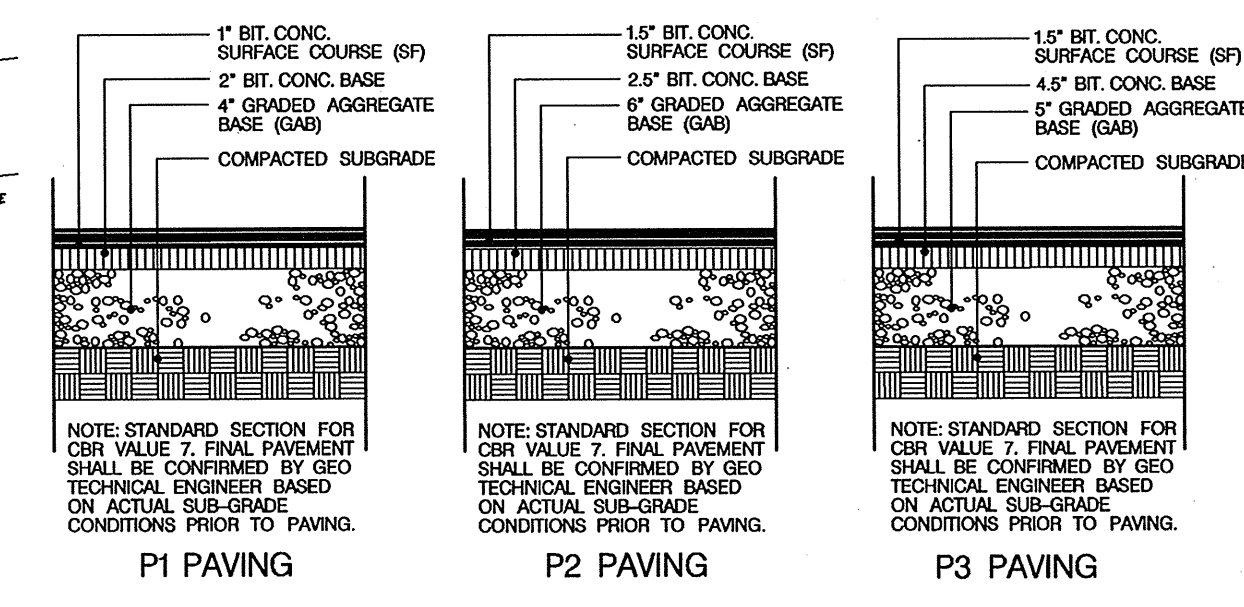
Developer/Contract Purchaser
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Abrams Development Group
5850 Waterloo Road Suite 230
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Facsimile 410-883-1793
www.matiswarfield.com



APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE 12/08/04

Detail Paving Sections and Areas Scale: 1" = 100'



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division
Chief, Division of Land Development

5/10/05
5/19/05
5/18/05

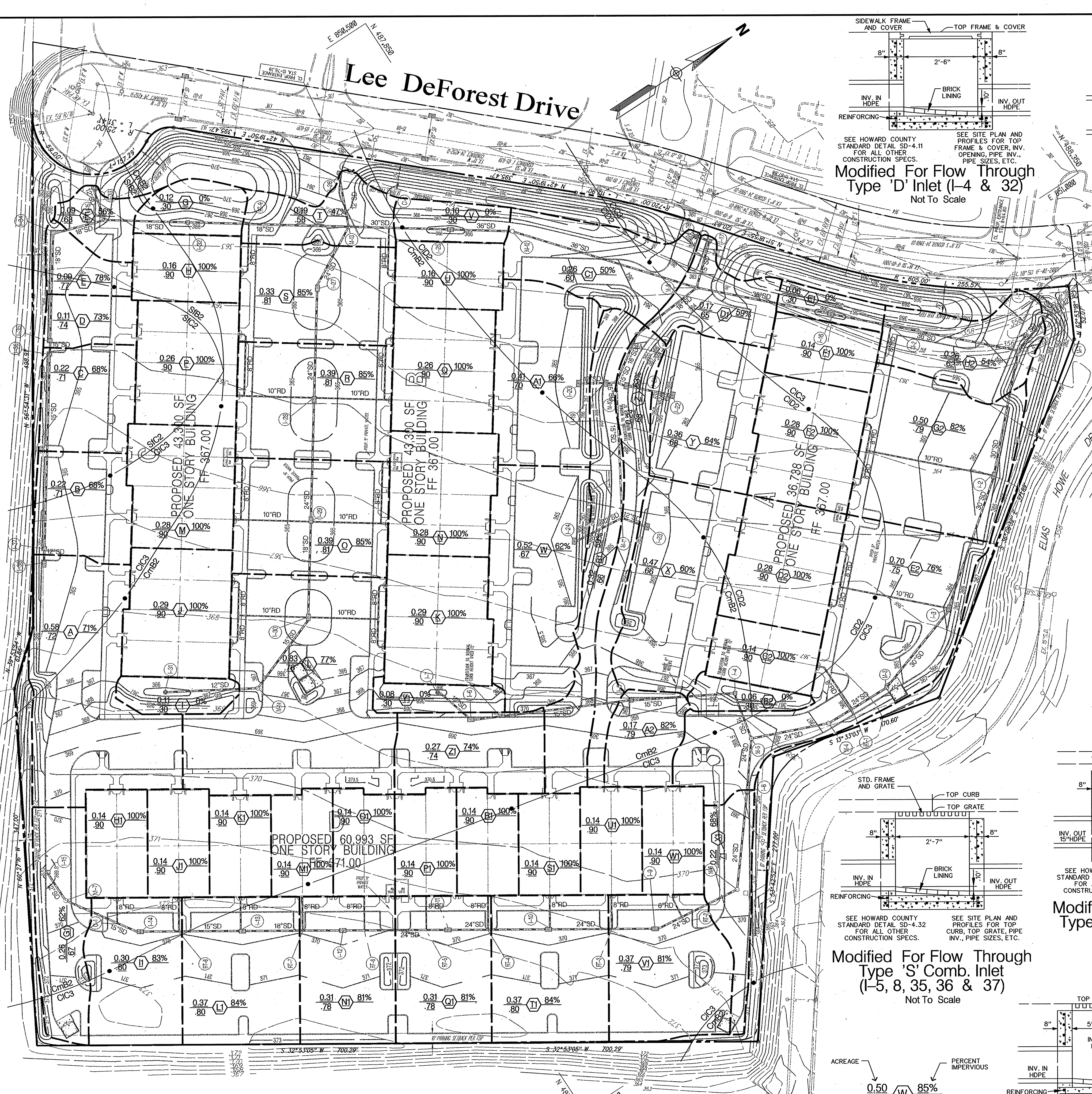
PERMIT INFORMATION CHART

| | | |
|--------------------------------------|-----------------------|-----------------------------------|
| Subdivision Name Columbia Gateway | Section /Area 2 | Lot/Parcel No. U-10 Parcel 021 |
| Plat or Liber/Folio 17360 + 17367 | Grid # 12 | Tax Map No. 42 |
| Water Code E 06 | Zoning NT | Election District 6th |
| | Sewer Code 4900000 | Census Tract 6067.03 |

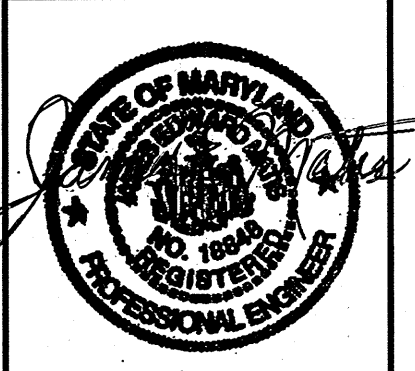
Site Details
Proposed Offices
Parcel U-10
Columbia Gateway

Howard County, Maryland
Scale: As Shown
April 25, 2005

Sheet 5 of 14
SDP 05-058



Matis Warfield
consulting engineers
10540 York Road, Suite 210
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Drainage Area Map

Scale 1" = 50'

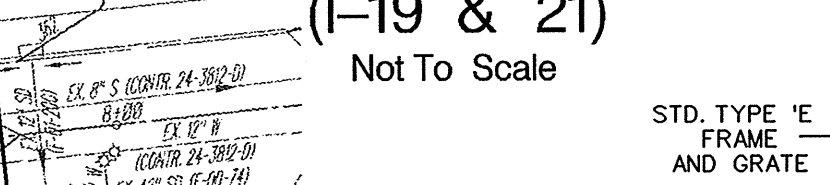
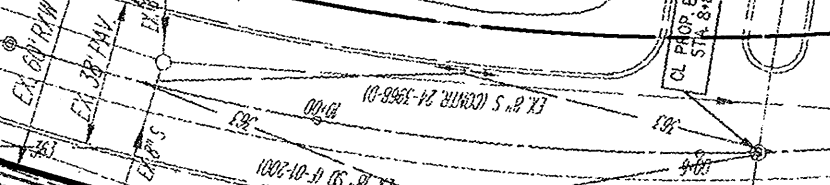
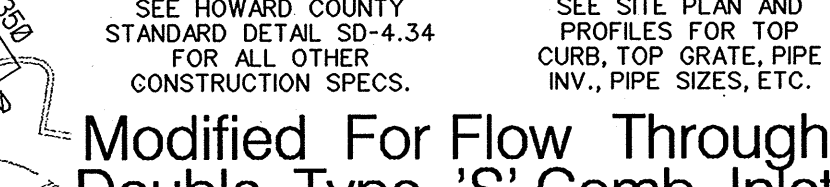
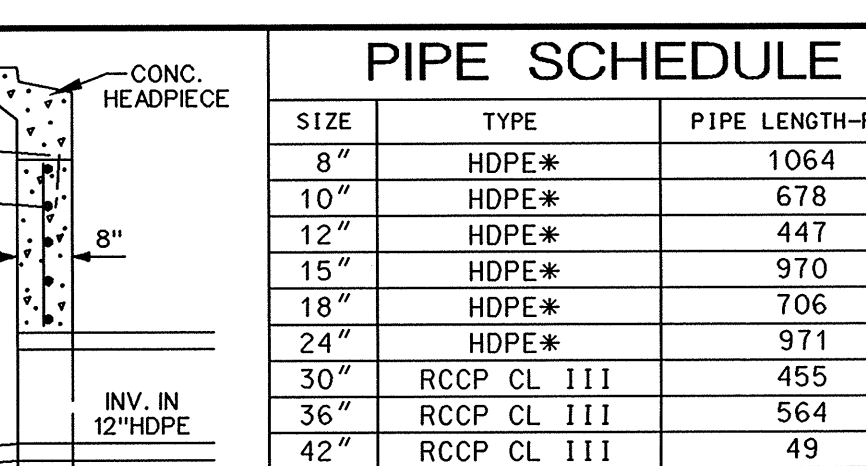
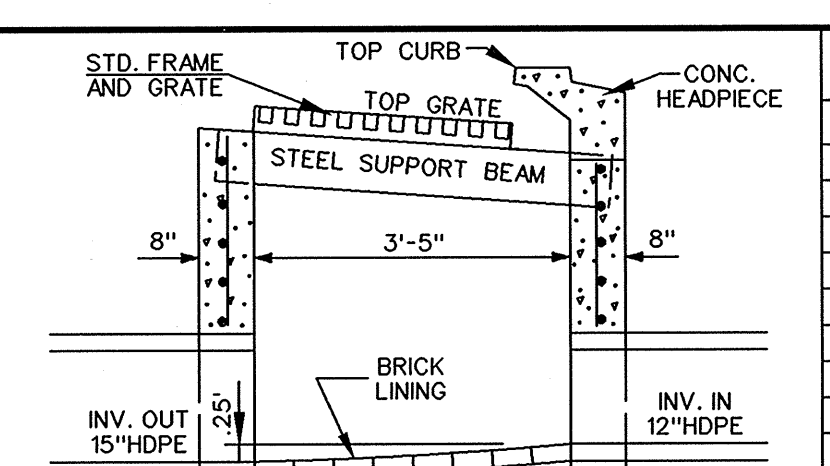
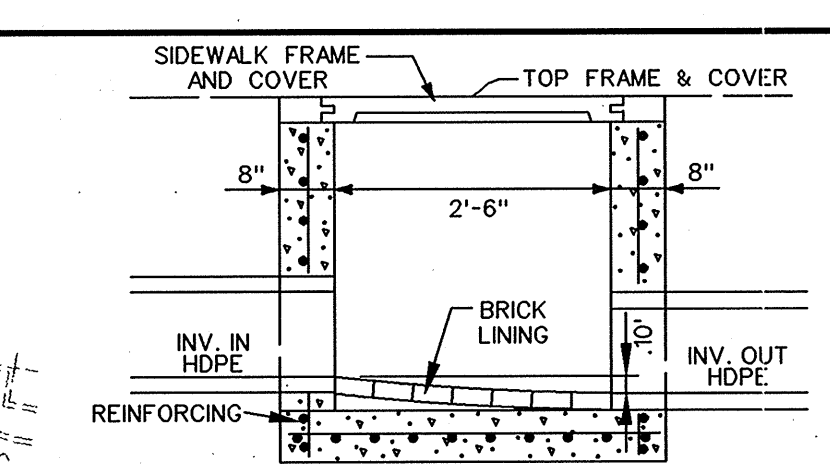
STORM WATER MANAGEMENT QUANTITY AND QUALITY PROVIDED IN REGIONAL FACILITY LOCATED ON ADJACENT LOT 15 (DPW FILE F-97-98)

ACREAGE → 0.50
PERCENT IMPERVIOUS → 85%
AREA DESIGNATION → W
C FACTOR →

DA BOUNDARY FROM DRAINAGE AREA MAP PLAN F-00-74(17.40Ac.)

STORM DRAIN DA

DA MAP LEGEND



PIPE SCHEDULE

| SIZE | TYPE | PIPE LENGTH-FEET |
|------|-------------|------------------|
| 8" | HDPE* | 1064 |
| 10" | HDPE* | 678 |
| 12" | HDPE* | 447 |
| 15" | HDPE* | 970 |
| 18" | HDPE* | 706 |
| 24" | HDPE* | 971 |
| 30" | RCCP CL 111 | 455 |
| 36" | RCCP CL 111 | 564 |
| 42" | RCCP CL 111 | 49 |

* AASHTO M-294 TYPE 'S'

STORM DRAIN INLET SCHEDULE

| NO. | TYPE | INV. IN | INV. OUT | TOP ELEV. | REMARKS |
|------|----------------|---------|------------|-------------|--------------------|
| 1-1 | 'S' COMB. | 355.94 | 359.68 | 363.10(TC) | STD. DTL. SD 4.32 |
| 1-2 | DBL. 'S' COMB. | 355.84 | 363.80(TC) | 364.40(TC) | STD. DTL. SD 4.34* |
| 1-3 | DBL. 'S' COMB. | 356.72 | 356.62 | 364.40(TC) | STD. DTL. SD 4.34* |
| 1-4 | 'D' INLET | 358.56 | 358.46 | 366.03(TFC) | STD. DTL. SD 4.11* |
| 1-5 | 'S' COMB. | 360.32 | 359.07 | 368.00(TC) | STD. DTL. SD 4.32* |
| 1-6 | DBL. 'S' COMB. | 361.88 | 361.78 | 368.60(TC) | STD. DTL. SD 4.34* |
| 1-7 | YARD INLET | 362.09 | 362.09 | 365.80(TC) | STD. DTL. SD 4.14 |
| 1-8 | 'S' COMB. | 361.33 | 361.23 | 369.40(TC) | STD. DTL. SD 4.32* |
| 1-9 | DBL. 'S' | 362.45 | 362.35 | 369.40(TC) | STD. DTL. SD 4.23* |
| 1-10 | DBL. 'S' | 363.07 | 362.97 | 369.40(TC) | STD. DTL. SD 4.23* |
| 1-11 | DBL. 'S' | 363.65 | 363.55 | 369.40(TC) | STD. DTL. SD 4.23* |
| 1-12 | DBL. 'S' | 364.26 | 364.16 | 369.40(TC) | STD. DTL. SD 4.23* |
| 1-13 | DBL. 'S' | 364.85 | 364.75 | 369.40(TC) | STD. DTL. SD 4.23* |
| 1-14 | DBL. 'S' | 365.45 | 365.35 | 369.40(TC) | STD. DTL. SD 4.23* |
| 1-15 | 'S' COMB. | 366.48 | 366.38 | 369.90(TC) | STD. DTL. SD 4.32 |
| 1-16 | 'E' INLET | 354.40 | 354.30 | 365.50(TC) | STD. DTL. SD 4.21* |
| 1-17 | 'S' COMB. | 355.65 | 355.40 | 362.30(TC) | STD. DTL. SD 4.32* |
| 1-18 | 'S' COMB. | 357.16 | 357.16 | 362.30(TC) | STD. DTL. SD 4.32* |
| 1-19 | DBL. 'S' COMB. | 360.41 | 360.31 | 364.00(TC) | STD. DTL. SD 4.34* |
| 1-20 | DBL. 'S' COMB. | 361.58 | 361.48 | 364.70(TC) | STD. DTL. SD 4.34 |
| 1-21 | DBL. 'S' COMB. | 360.41 | 360.31 | 364.00(TC) | STD. DTL. SD 4.34* |
| 1-22 | DBL. 'S' COMB. | 361.38 | 361.28 | 364.60(TC) | STD. DTL. SD 4.34 |
| 1-23 | DBL. 'S' COMB. | 361.18 | 361.08 | 364.60(TC) | STD. DTL. SD 4.34 |
| 1-24 | DBL. 'S' COMB. | 361.58 | 361.48 | 365.00(TC) | STD. DTL. SD 4.34 |
| 1-25 | 'E' INLET | 356.59 | 356.49 | 365.50(TC) | STD. DTL. SD 4.21* |
| 1-26 | 'S' COMB. | 359.58 | 359.48 | 363.40(TC) | STD. DTL. SD 4.32 |
| 1-27 | DBL. 'S' | 358.19 | 358.09 | 364.40(TC) | STD. DTL. SD 4.23* |
| 1-28 | DBL. 'S' | 358.83 | 358.73 | 364.40(TC) | STD. DTL. SD 4.23* |
| 1-29 | DBL. 'S' | 360.42 | 360.32 | 364.40(TC) | STD. DTL. SD 4.23* |
| 1-30 | DBL. 'S' | 360.99 | 360.89 | 364.40(TC) | STD. DTL. SD 4.23* |
| 1-31 | YARD INLET | 361.96 | 361.86 | 365.50(TC) | STD. DTL. SD 4.14 |
| 1-32 | 'D' INLET | 358.06 | 357.96 | 366.33(TFC) | STD. DTL. SD 4.11* |
| 1-33 | 'S' COMB. | 360.53 | 360.43 | 365.95(TC) | STD. DTL. SD 4.32 |
| 1-34 | 'S' COMB. | 358.92 | 358.82 | 364.60(TC) | STD. DTL. SD 4.32* |
| 1-35 | 'S' COMB. | 359.54 | 359.44 | 364.60(TC) | STD. DTL. SD 4.32* |
| 1-36 | 'S' COMB. | 359.70 | 359.60 | 364.60(TC) | STD. DTL. SD 4.32* |
| 1-37 | 'S' COMB. | 360.74 | 360.64 | 364.60(TC) | STD. DTL. SD 4.32* |
| 1-38 | DBL. 'S' COMB. | 360.81 | 360.71 | 364.60(TC) | STD. DTL. SD 4.34 |

STORM DRAIN STRUCTURE SCHEDULE

| NO. | TYPE | INV. IN | INV. OUT | TOP ELEV. | REMARKS |
|------|--------------------|---------|----------|-----------|-----------------------|
| M-1 | 6" MANHOLE | 355.53 | 352.93 | 364.00 | SHA DTL. MD-384.05 |
| M-2 | 6" MANHOLE | 354.38 | 353.28 | 365.50 | SHA DTL. MD-384.05 |
| M-3 | 5" MANHOLE | 357.31 | 357.21 | 365.30 | STD. DTL. G 5.13 |
| M-4 | 4" MANHOLE | 357.74 | 357.64 | 366.75 | STD. DTL. G 5.12 |
| M-5 | 4" MANHOLE | 360.12 | 358.12 | 368.30 | STD. DTL. G 5.12 |
| M-6 | 4" MANHOLE | 361.91 | 361.81 | 369.75 | STD. DTL. G 5.12 |
| M-7 | 4" SHALLOW MANHOLE | 365.94 | 365.84 | 369.80 | STD. DTL. G 5.12 |
| M-8 | 5" MANHOLE | 355.66 | 355.06 | 363.50 | STD. DTL. G 5.13 |
| M-9 | 4" MANHOLE | 357.42 | 357.32 | 364.10 | STD. DTL. G 5.12 |
| M-10 | 4" SHALLOW MANHOLE | 359.17 | 357.67 | 363.60 | STD. DTL. G 5.12 |
| M-11 | 4" SHALLOW MANHOLE | 359.68 | 358.43 | 364.70 | STD. DTL. G 5.12 |
| M-12 | 5" MANHOLE | 356.19 | 356.09 | 366.90 | STD. DTL. G 5.13 |
| M-13 | 5" MANHOLE | 357.18 | 357.08 | 365.05 | STD. DTL. G 5.13 |
| M-14 | 4" MANHOLE | 361.51 | 361.41 | 367.70 | STD. DTL. G 5.12 |
| M-15 | 4" MANHOLE | 358.96 | 358.46 | 364.90 | STD. DTL. G 5.12 |
| CI-1 | CUT-IN | 365.86 | 365.57 | - | 15" RCCP x 8" HDPE |
| CI-2 | CUT-IN | 355.17 | 354.00 | - | 36" RCCP x 8" HDPE |
| CI-3 | CUT-IN | 357.80 | 356.88 | - | 30" RCCP x 8" HDPE |
| RT-1 | REDUCING TEE | 358.18 | 357.51 | - | 24" x 8" HDPE FITTING |
| RT-2 | REDUCING TEE | 362.85 | 362.18 | - | 24" x 8" HDPE FITTING |
| RT-3 | REDUCING TEE | 363.33 | 362.66 | - | 24" x 8" HDPE FITTING |
| RT-4 | REDUCING TEE | 364.03 | 363.36 | - | 24" x 8" HDPE FITTING |
| RT-5 | REDUCING TEE | 364.43 | 363.76 | - | 24" x 8" HDPE FITTING |
| RT-6 | REDUCING TEE | 364.73 | 364.06 | - | 24" x 8" HDPE FITTING |
| RT-7 | REDUCING TEE | 364.87 | 364.45 | - | 18" x 8" HDPE FITTING |
| RT-8 | REDUCING TEE | 365.45 | 365.16 | - | 15" x 8" HDPE FITTING |
| RT-9 | REDUCING TEE | 358.08 | 357.66 | - | 18" x 8" HDPE FITTING |

*MODIFIED, SEE DETAILS THIS SHEET
(TC)-TOP CURB
(TG)-TOP GRATE
(TFC)-TOP FRAME & COVER

Developer/Contract Purchaser
AAK Lee DeForest, LLC
J. Michael Abrams, Managing Member
Abrams Development Group
5850 Waterloo Road Suite 230
Columbia, Maryland 21045
Phone (410) 461-4340
Fax (410) 461-5709

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 5/10/05
Chief, Development Engineering Division MK Date

[Signature] 5/19/05
Chief, Division of Land Development Date

[Signature] 5/18/05
Director Date

PERMIT INFORMATION CHART

| Subdivision Name | Section /Area | Lot/Parcel No. U-10 |
|------------------|---------------|---------------------|
| Columbia Gateway | 2 | 6067.03 |

| Plot or Liber/Folio | Grid # | Zoning | Tax Map No. | Election District | Census Tract |
|---------------------|--------|--------|-------------|-------------------|--------------|
| 17356 + 17357 | 12 | NT | 42 | 6th | 6067.03 |

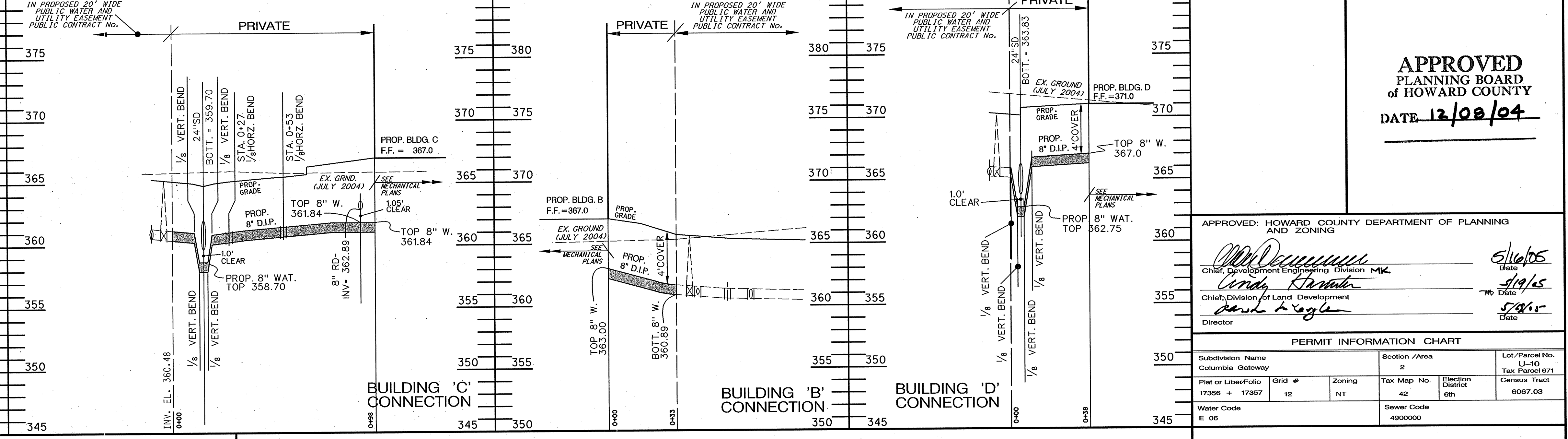
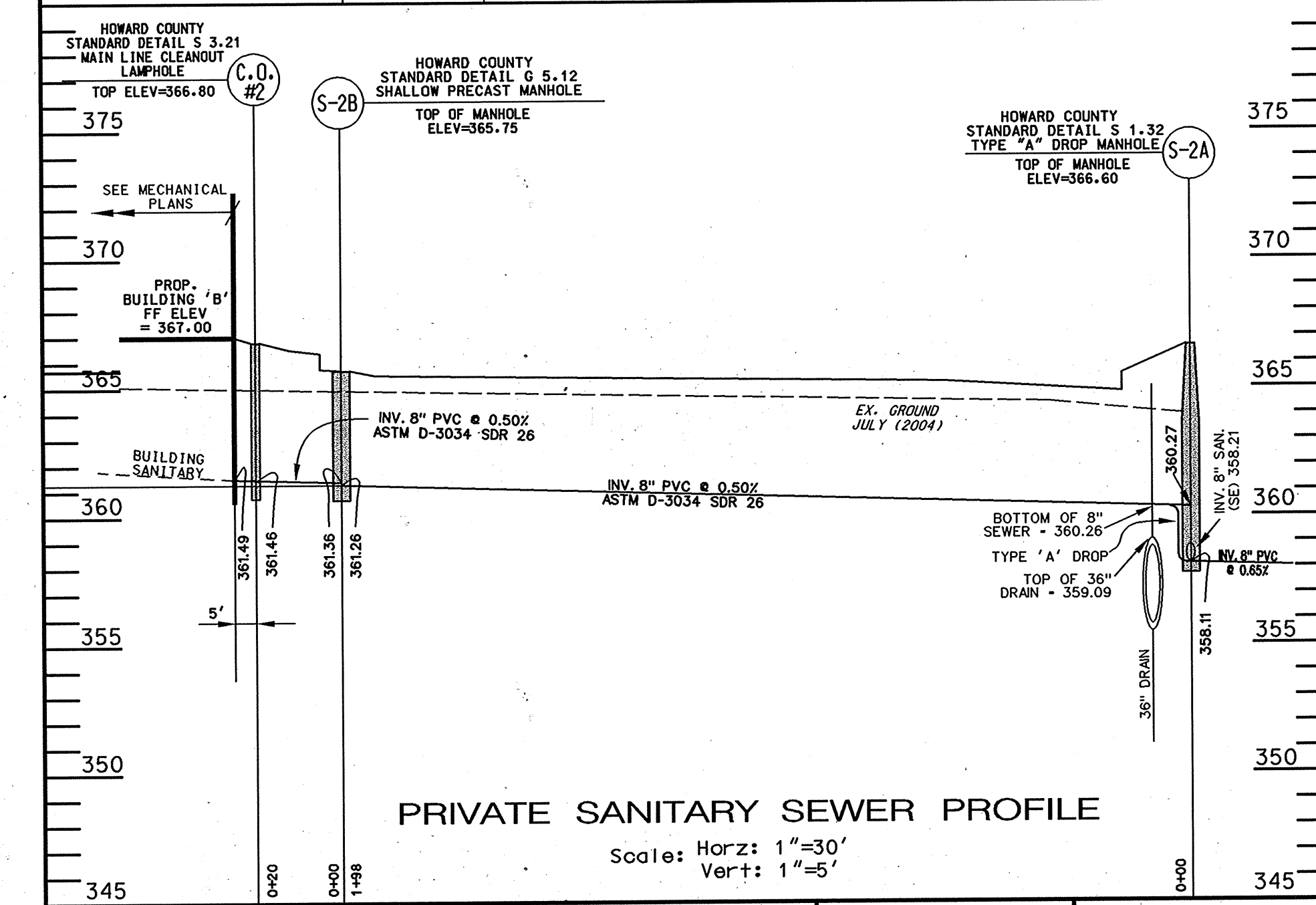
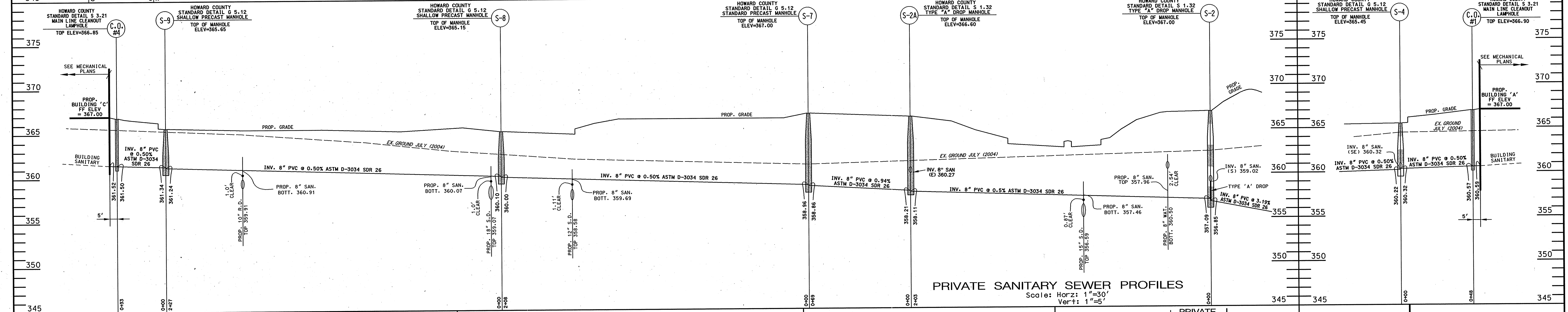
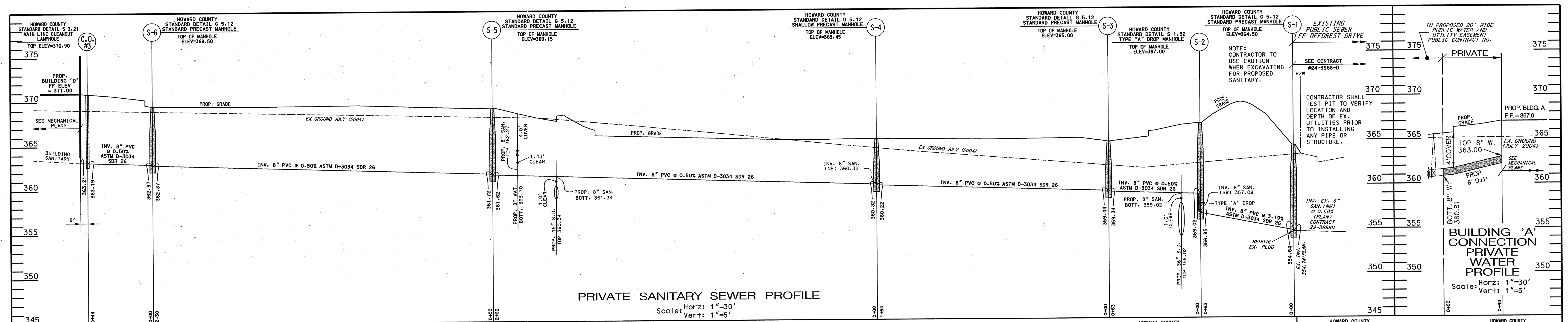
| Water Code | Sewer Code |
|------------|------------|
| E 06 | 4900000 |

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 12/08/04

Stormwater Drainage Area Map & Storm Drain Details
Proposed Offices
Parcel U-10
Columbia Gateway

Howard County, Maryland
Scale: As Shown
April 25, 2005
Sheet 6 of 14
SDP-05-058

SDP-05-058



APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 12/08/04

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Mark D. Williams
Date: 5/19/05
Chief, Development Engineering Division MK

Chris K. Kishner
Date: 5/19/05
Chief, Division of Land Development

Barbara K. Taylor
Date: 5/19/05
Director

| PERMIT INFORMATION CHART | | | | | |
|--------------------------------------|-----------------------|------------------------------|--------------------------------------|-------------------------|--------------|
| Subdivision Name Columbia Gateway | Section /Area 2 | Lot /Parcel No. U-10 | Plat or Liber/Folio 17356 + 17357 | Grid # 12 | Zoning NT |
| Water Code E 06 | Sewer Code 4900000 | Tax Parcel Tax Parcel 671 | Election District 6th | Census Tract 6067.03 | |

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consulting engineers

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Hunt Valley, Maryland 21030
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Abrams Development Group

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Columbia, Maryland 21045
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Private Water & Sewer Profiles
Proposed Offices
Parcel U-10
Columbia Gateway

Howard County, Maryland
Scale: As Shown
April 25, 2005
Sheet 7 of 14
SDP 05-058

MATCH LINE SEE SHEET 11 of 14

360.0

PROPOSED 43,300 SF ONE STORY BUILDING

MINIMUM TOP OF B-2 EARTH DIKE AT ELEVATION 365.5

PROPOSED 60,993 SF ONE STORY BUILDING
FF 371.00

FF 367.00

ENTIRE PERIMETER OF EARTH DIKE TO BE WRAPPED WITH BLAZED ORANGE SAFETY FENCE. ANY DAMAGE TO EARTH DIKE DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY.

PROPOSED 36,738 SF ONE STORY BUILDING
FF 367.00

Lee DeForest Drive

| TRAP NUMBER | 1 | 2 |
|------------------------------------|-------------|-------------|
| TYPE | ROST ST III | ROST ST III |
| EXISTING DRAINAGE AREA AC. | 9.85 | 6.15 |
| INTERIM DRAINAGE AREA AC. | 9.35 (a) | 6.65 (a) |
| PROPOSED DRAINAGE AREA AC. | 6.50 | 9.50 |
| STORAGE REQUIRED C.F. | WET 53,190 | 51,300 |
| | DRY NA | NA |
| TOTAL | 53,190 | 51,300 |
| STORAGE PROVIDED C.F. | WET 54,796 | 52,948 |
| | DRY NA | NA |
| TOTAL | 54,796 | 52,948 |
| WEIR CREST ELEV. | 362.5 | 363.5 |
| BOTTOM ELEV. | 356.0 | 363.5 |
| TOP EMBANKMENT ELEV. | 365.5 | 363.5 |
| LIMIT WET STORAGE / ELEV. | 362.5 | 363.5 |
| CLEANOUT ELEV.=14 WET STORAGE VOL. | 358.0 | 357.0 |
| SIDE SLOPES | 2:1 | 2:1 |
| WET STORAGE ZONE ELEV. | 356.0-362.5 | 363.5-363.5 |
| DRY STORAGE ZONE ELEV. | NA | NA |
| BOTTOM DIMENSION | 55' X 110' | 36' X 72' |
| EXIST. GROUND AT WEIR | 362.5 | 363.5 |
| SPILLWAY WEIR WIDTH | 12' | 12' |

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE 12/08/04

| TASK | EST. DAYS |
|--|-----------|
| 1. Obtain grading permit. | |
| 2. With the approval of the Sediment Control Inspector install sediment & erosion control measures including stone construction entrance, trap outlet sediment trap with catchment, earth dikes & silt fence. Earth dikes adjacent to ends of Trap No. 1 must have minimum top elevation of 365.5 and earth dikes adjacent to ends of Trap No. 2 must have minimum top elevation of 366.5 and all to have a minimum width of 4 feet to meet trap embankment elevations. The entire perimeter of the B-1 interior earth dike extending from Trap No. 1 must be "wrapped" with blaze orange safety fencing. Any damage to this dike must be repaired immediately. | 25 |
| 3. With the approval of the Sediment Control Inspector begin site grading, building foundations and utility installation. During dry weather only, (3 dry day forecast) install 30" storm drain system beginning at Trap No. 1, 32" downstream of M-2 at invert 355.54 and install drainage system upstream through I-2, install 30" storm drain system beginning at Trap No. 2, 53" downstream of I-2 at invert 355.17 and install drainage system upstream through I-5 and I-7. Drainage system from M-1 to M-2 and M-1 to I-1 may not be installed at this time. 30" & 36" drains extending upstream from M-1 cannot be built through Trap No. 2. 30" drain may be extended upstream from M-6, but may not be connected through Trap No. 1. All ditches and associated storm dikes become operational, have their respective inlets connected to Traps 1 & 2. Each storm drain system periodically following rain events to insure the system remains functional and unclogged. Install sanitary sewer and water line, except where sanitary sewer conflicts with Trap 1. Remaining portion to be installed under sequence 4. Repair all sediment control devices immediately that are damaged by any utility installation. | 120 |
| 4. Complete building foundation, slab and disposable grading and utility work. Stabilize disturbed areas in accordance with stabilization specifications. | 30 |
| 5. Install curb and gutter and place stone subbase in all areas to receive paving except in sediment trap areas or areas that will require flow along earth dikes. Permanently stabilize areas to remain grass in accordance with stabilization specifications. | 45 |
| 6. During dry weather only and with the approval of the Sediment Control Inspector install storm drain system downstream through Traps, ditches & remove Trap No. 1 and Trap No. 2, complete remaining portions of storm drain systems downstream, installing remaining portion of sanitary sewer, installing remaining curb and gutter and place stone subbase in these areas. Stabilize any areas to remain grass. | 15 |
| 7. Proceed with paving operations. | 15 |
| 8. With the approval of the Sediment Control Inspector remove remaining sediment control devices and stabilize those areas disturbed by this process. | 3 |

ENGINEER'S CERTIFICATE

I 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 Soil Conservation District.

James E. Mattis
James E. Mattis, P.E. MD 18848
Date 4-25-05

DEVELOPER'S CERTIFICATE

I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a 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 Howard Soil Conservation District.

Date 4-25-05
For AAK Lee DeForest, LLC by J. Michael Abrams, Managing Member

Legend

- Existing Contours
- Proposed Grades
- Existing Water
- Proposed Private Water
- Proposed Public Water
- Existing Sanitary
- Proposed Private Sanitary
- Existing Storm Drain
- Proposed Private Storm Drain
- Existing Curb and Gutter
- Proposed Conc. Curb & Gutter
- Proposed Light Fixture
- Proposed Concrete Paving
- Handicap Parking Space
- Proposed Elevation at low line of Earth Dike

Matis Warfield
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Professional Engineer Seal

Developer/Contract Purchaser
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J. Michael Abrams, Managing Member
Abrams Development Group
5850 Waterloo Road Suite 230
Columbia, Maryland 21045
Phone (410) 461-4340
Fax (410) 461-5709

Plan Scale 1" = 30'

Reviewed for Howard SCD and meets Technical Requirements

Jim Meyer 9/28/05
Date

Approved for Howard County Department of Planning and Zoning

John K. Robertson 9/28/05
Date

John K. Robertson 9/28/05
Date

Mark A. D'Angelo 5/21/05
Date

PERMIT INFORMATION CHART

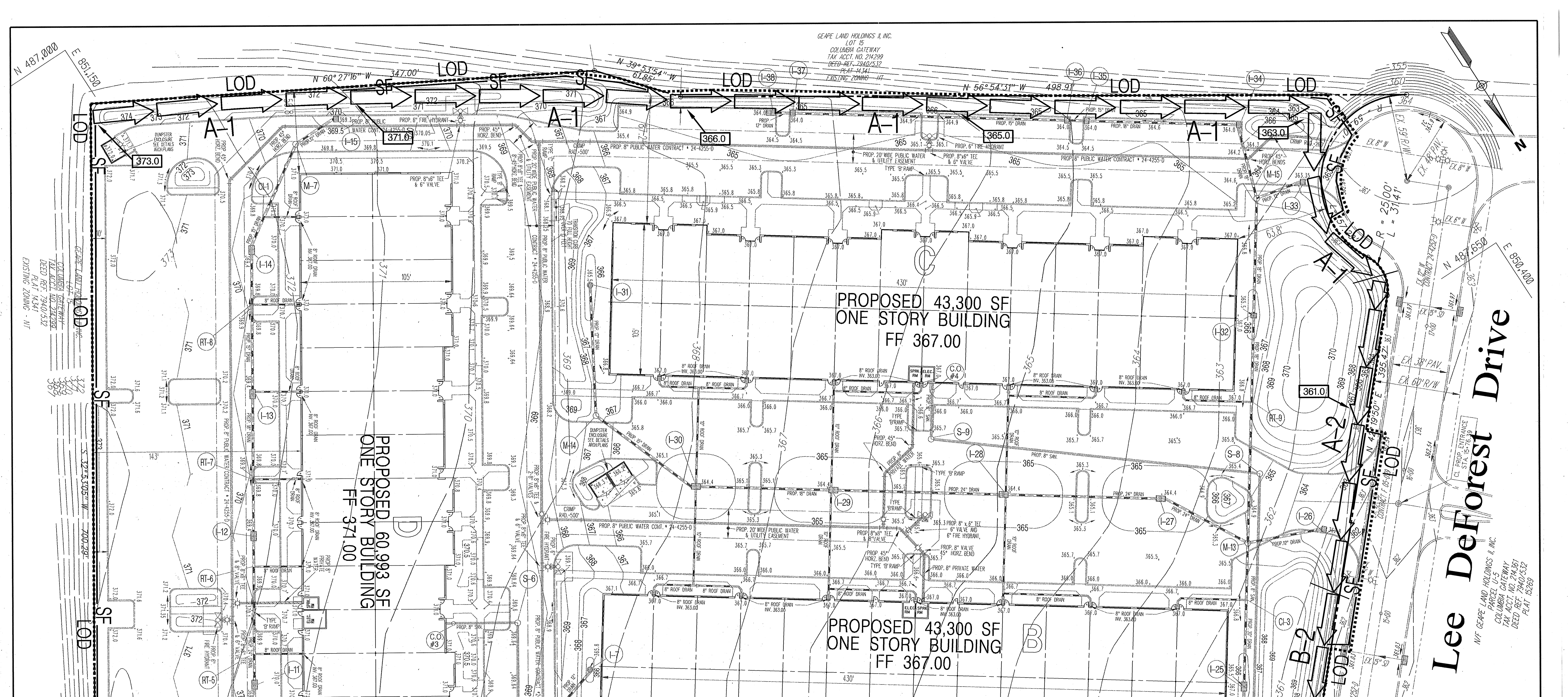
| | | | | | |
|---------------------|------------------|----------------|---------|-------------------|---------|
| Subdivision Name | Columbia Gateway | Section / Area | 2 | Lot / Parcel No. | U-10 |
| Plat or Liber/Folio | 17356 + 17357 | Grid # | 12 | Tax Parcel # | 6067.03 |
| Water Code | E 06 | Zoning | NT | Election District | 6th |
| | | Tax Map No. | 42 | Census Tract | 6067.03 |
| | | Sewer Code | 4900000 | | |

Sediment and Erosion Control Plan
Proposed Offices
Parcel U-10
Columbia Gateway

Howard County, Maryland
Scale: As Shown

April 25, 2005
SDP-05-058

Sheet 10 of 14
SDP-05-058



MATCH LINE SEE SHEET 10 of 14

Legend

| | | | |
|------------------------------|---------|---|--------|
| Existing Contours | --- 352 | Limit of Disturbance | LOD |
| Proposed Grades | --- 362 | Removable Pumping Station | ☒ |
| Existing Water | — | Silt Fence | — SF — |
| Proposed Private Water | — | Earth Dike | → |
| Proposed Public Water | — | Stabilized Construction Entrance | ▨ |
| Existing Sanitary | — | Gabion Inflow Protection | G.I.P. |
| Proposed Private Sanitary | — | Proposed Elevation at flow line of Earth Dike | 365.0 |
| Existing Storm Drain | — | | |
| Proposed Private Storm Drain | — | | |
| Existing Curb and Gutter | — | | |
| Proposed Conc. Curb & Gutter | — | | |
| Proposed Light Fixture | — | | |
| Proposed Concrete Paving | ▨ | | |
| Handicap Parking Space | (H) | | |

Plan
Scale 1" = 30'

ENGINEER'S CERTIFICATE

I 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 Soil Conservation District.

James E. Mattis
James E. Mattis, P.E. MD 18848
Date: 4-25-05

DEVELOPER'S CERTIFICATE

We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a 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 Howard Soil Conservation District.

For AAK Lee DeForest, LLC by J. Michael Abrams, Managing Member
Date: 4-25-05

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE: 12/08/04

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Howard County Planning and Zoning
Chief, Development Engineering Division MK
Date: 5/16/05
Chief, Land Development Division
Date: 5/19/05
Director

PERMIT INFORMATION CHART

| | | | | | |
|---------------------|------------------|---------------|----|-------------------|---------|
| Subdivision Name | Columbia Gateway | Section /Area | 2 | Lot /Parcel No. | U-10 |
| Plat or Liber/Folio | 17356 + 17357 | Grid # | 12 | Tax Parcel No. | 6067.03 |
| Water Code | E 06 | Zoning | NT | Election District | 6th |
| Sewer Code | 4900000 | Tax Map No. | 42 | Census Tract | 6067.03 |

Sediment and Erosion Control Plan
Proposed Offices
Parcel U-10
Columbia Gateway

Matis Warfield
consulting engineers

10540 York Road, Suite 1030
Hunt Valley, Maryland 21030
Phone 410-883-7004
Facsimile 410-883-1768
www.matiswarfield.com

Developer /Contract Purchaser
AAK Lee DeForest, LLC
J. Michael Abrams, Managing Member
Abrams Development Group
5550 Waterloo Road, Suite 230
Columbia, Maryland 21045
Phone (410) 461-4340
Fax (410) 461-5709

FOR SEQUENCE OF OPERATIONS & SEDIMENT TRAPS, SEE SHEET 10 of 14.

Topsoil Specifications

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

Definition
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose
To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

- The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
- The soil materials are so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
- The original soil to be vegetated contains material toxic to plant growth.
- The soils so acidic that treatment with limestone is not feasible.

Construction and Material Specifications

I. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in their reports published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.

II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

III. For sites having disturbed areas under 5 acres:

- On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - Organic contents of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
- No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.

IV. For sites having disturbed areas over 5 acres:

- On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - Organic contents of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
- No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

V. Topsoil Application

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Silt Trap Fence and sediment traps and basins.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4/32" - 8/32" higher in elevation.
- Topsoil shall be uniformly distributed in a 4% - 8% layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.

iv. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation.

Permanent/Temporary Seeding Notes

PERMANENT SEEDING NOTES
APPLY TO GRADED OR CLEARED AREAS 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, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

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

- PREFERRED** - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREA FORM FERTILIZER (9 LBS./1000 SQ. FT.)
- ACCEPTABLE** - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK 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 (14 LBS./1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU MAY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS./1000 SQ. FT.) OF WEEPING 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. (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 (70 - 90 LBS./1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1000 SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING 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, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

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

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 THRU OCTOBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 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 (70 - 90 LBS./1000 SQ. FT.) OF UNROTTED WEED FREE SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER, USE 348 GAL. PER ACRE (8 GAL./1000 SQ. FT.) FOR ANCHORING.

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

Dust Control Specifications

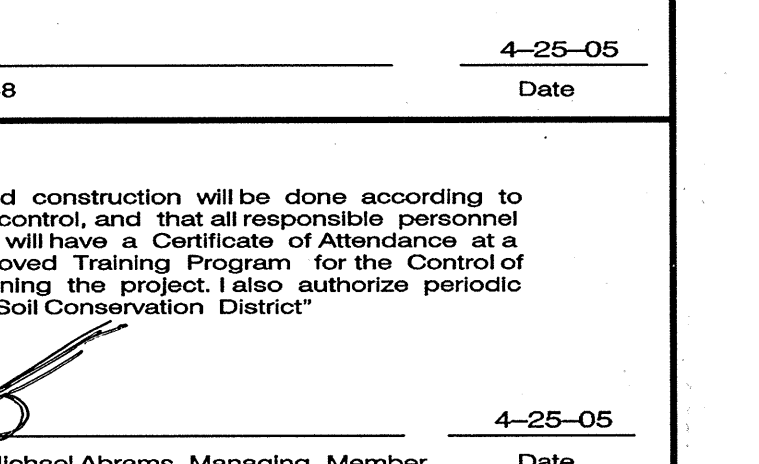
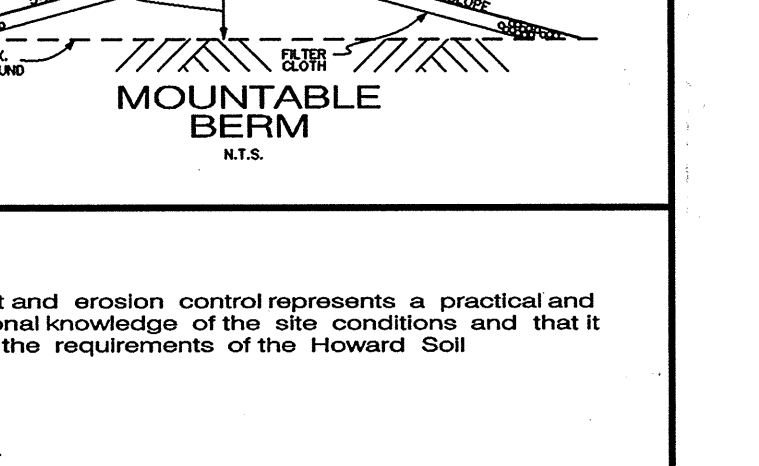
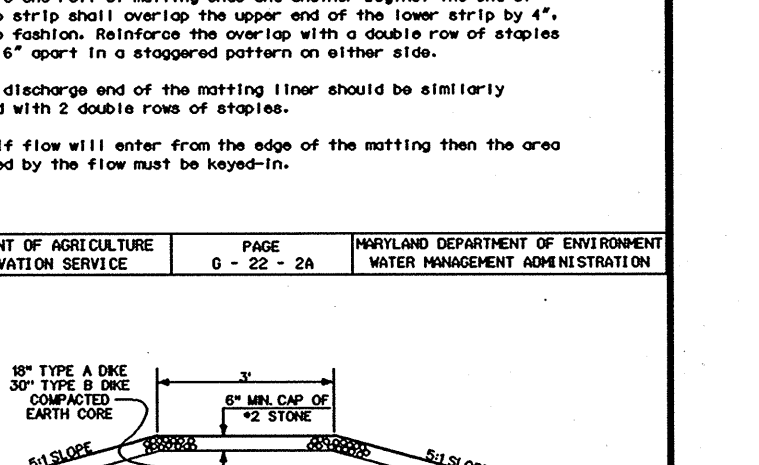
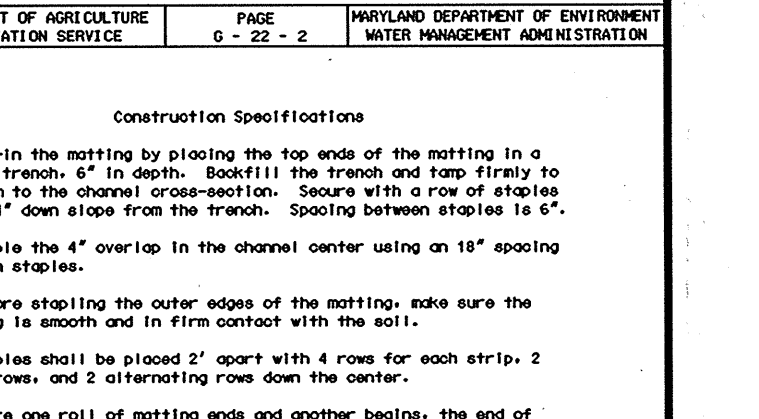
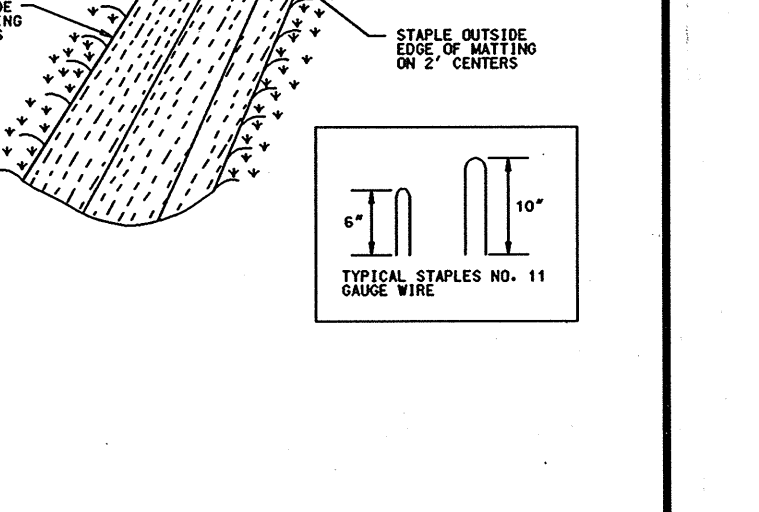
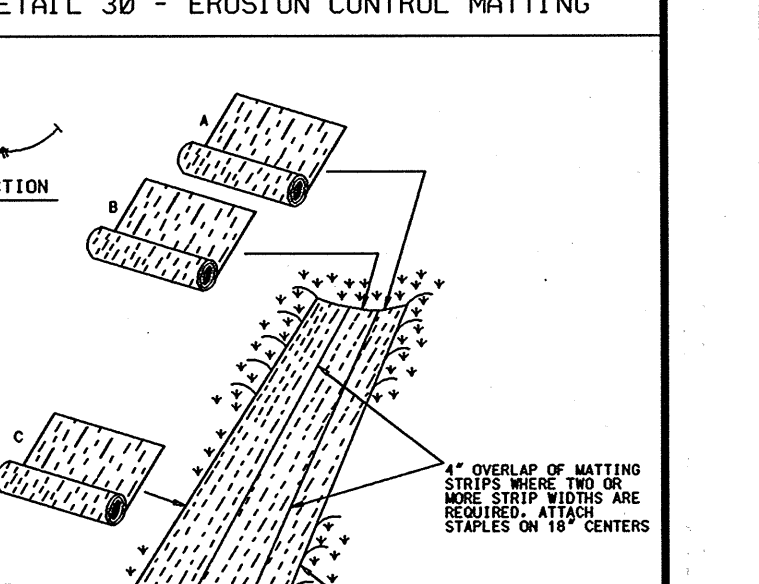
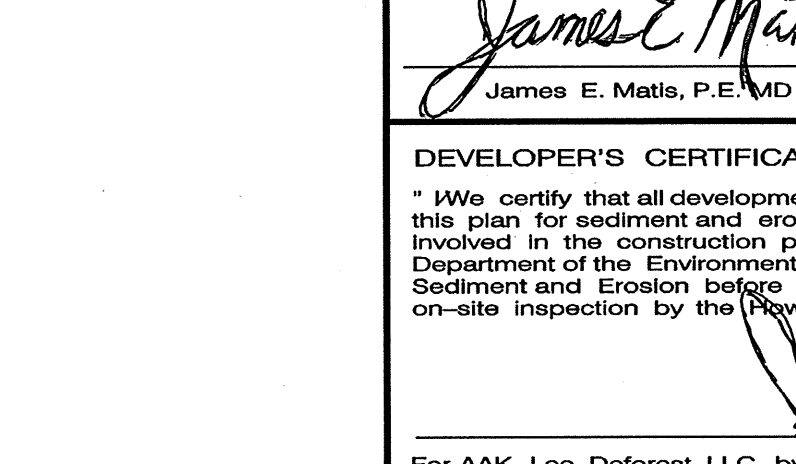
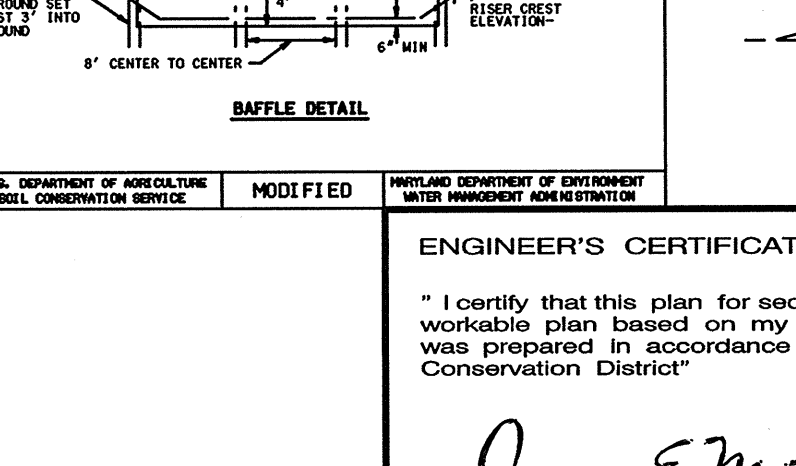
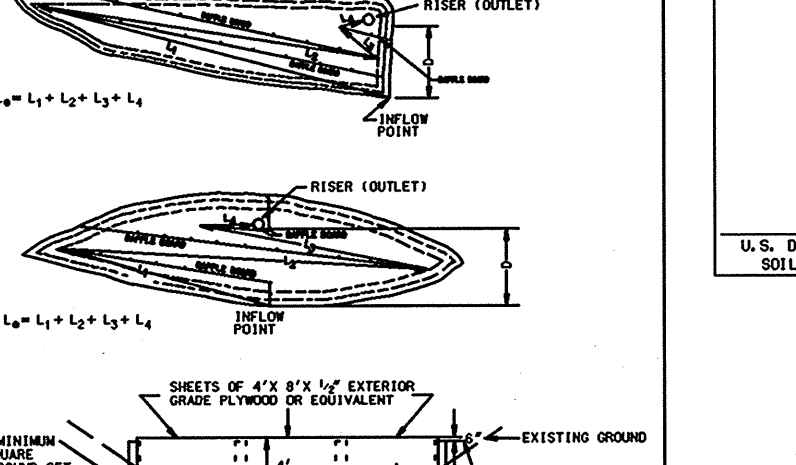
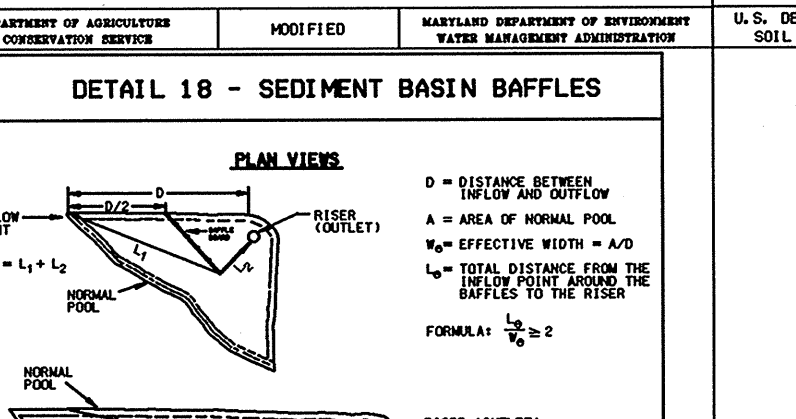
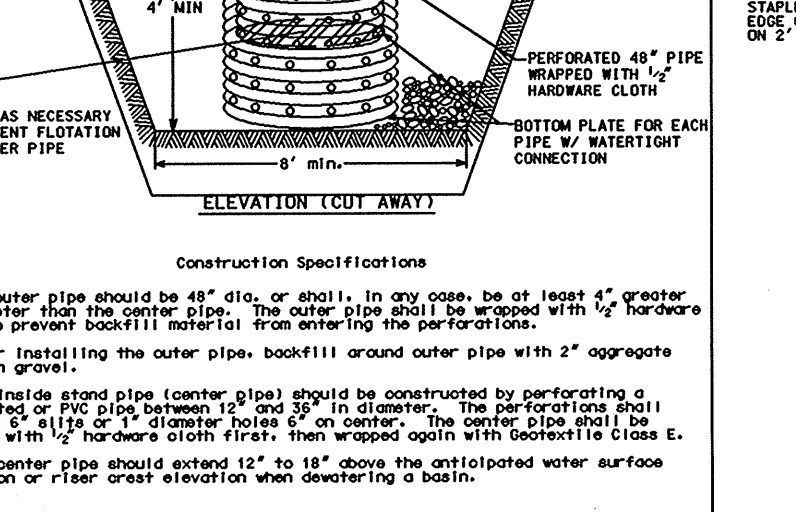
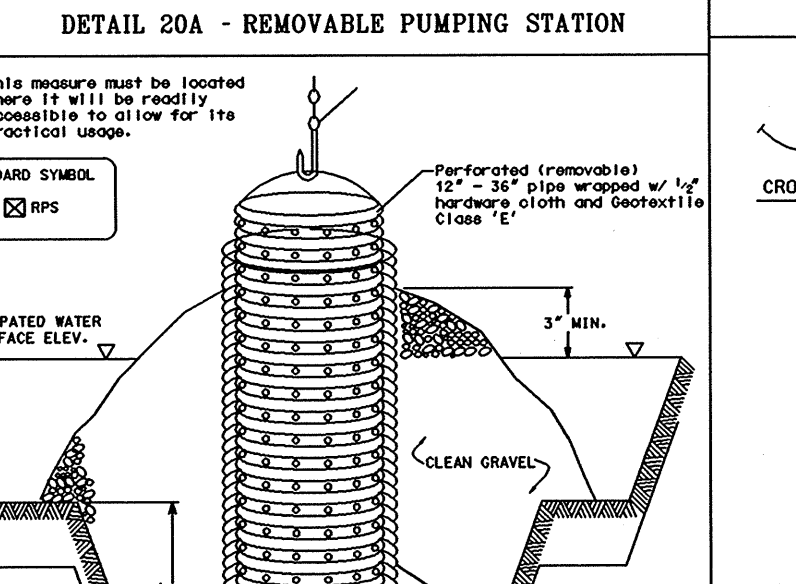
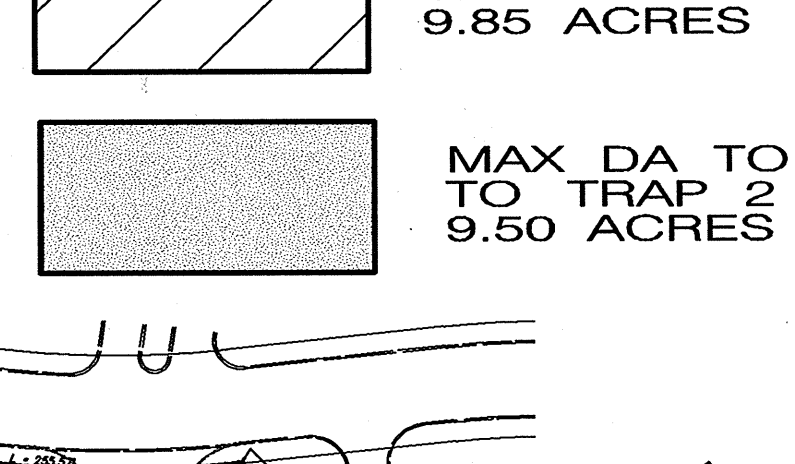
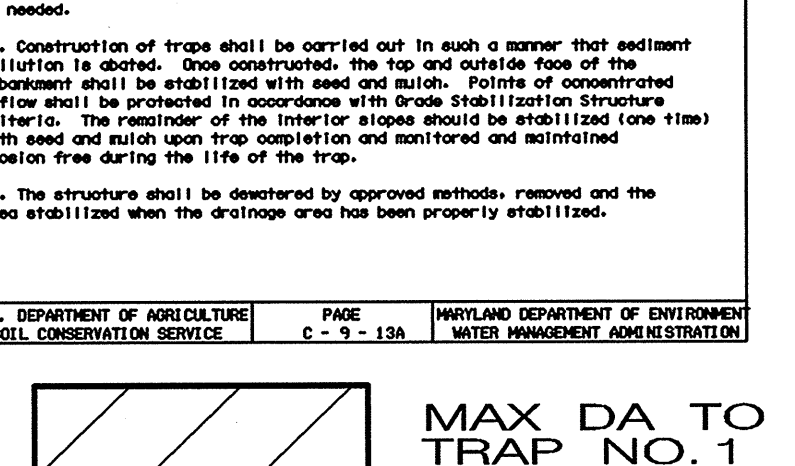
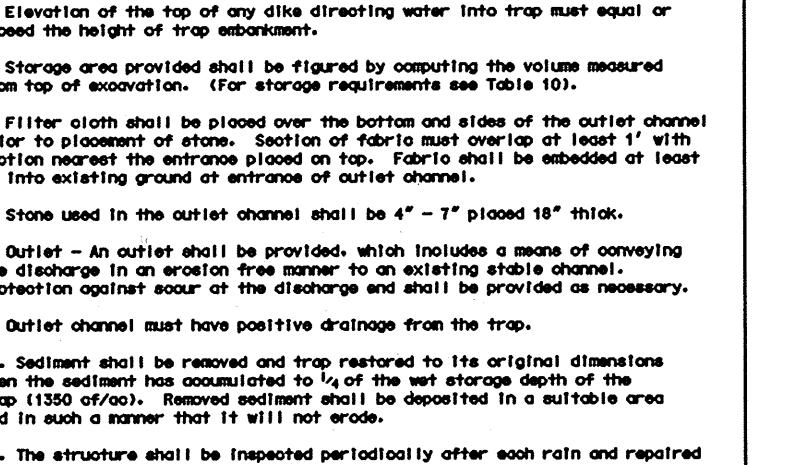
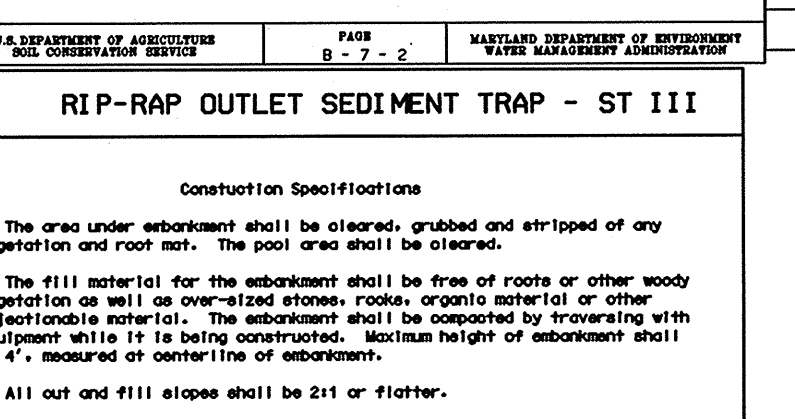
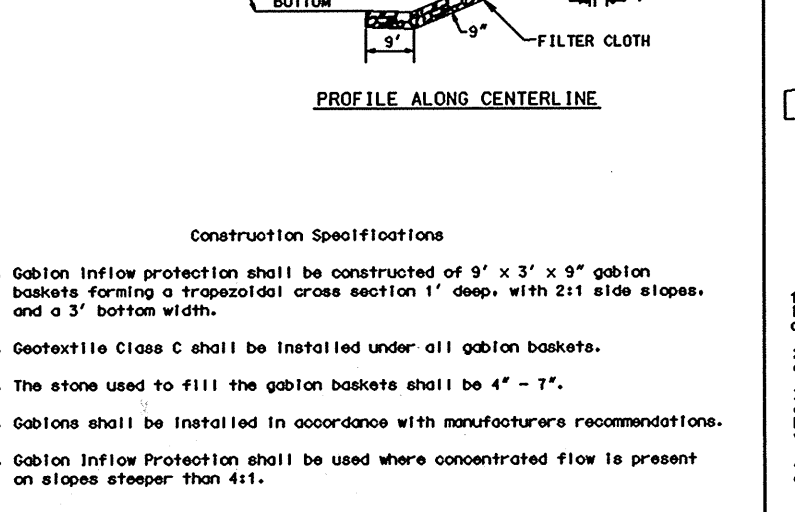
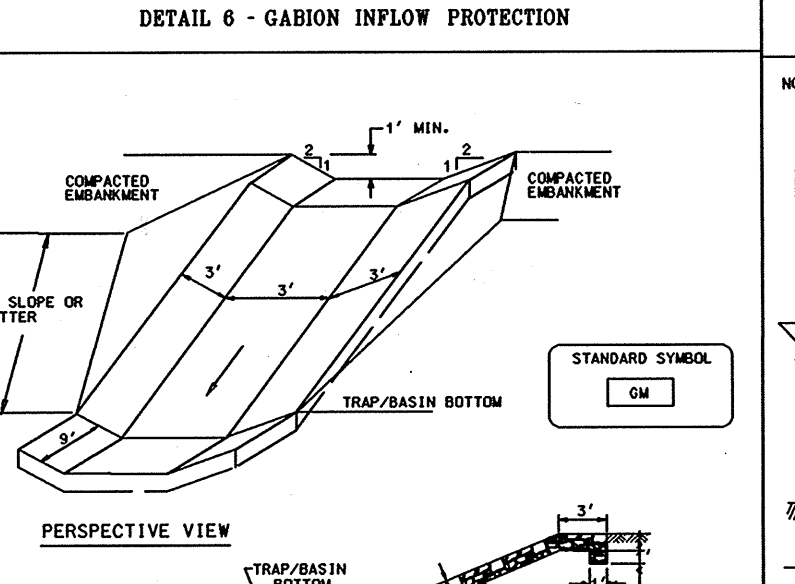
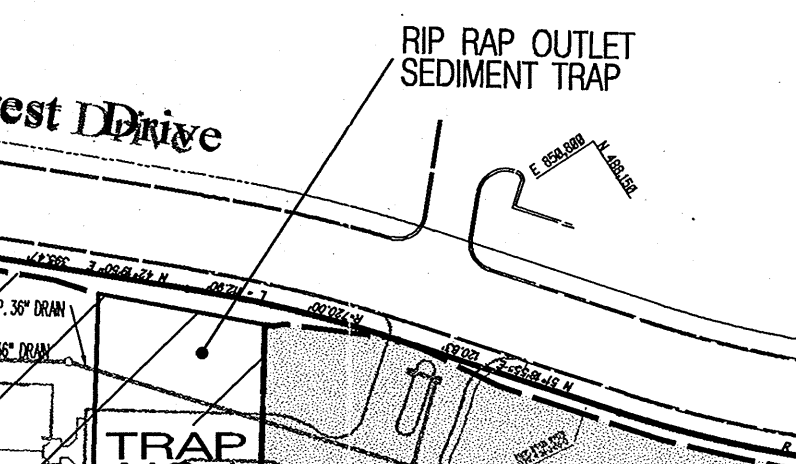
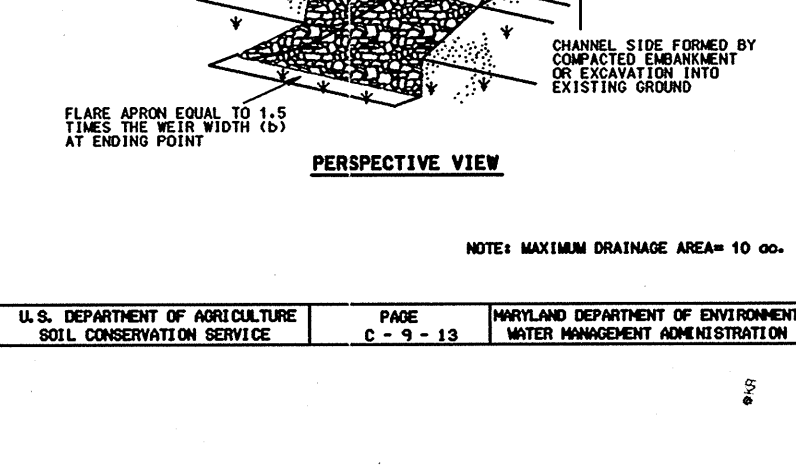
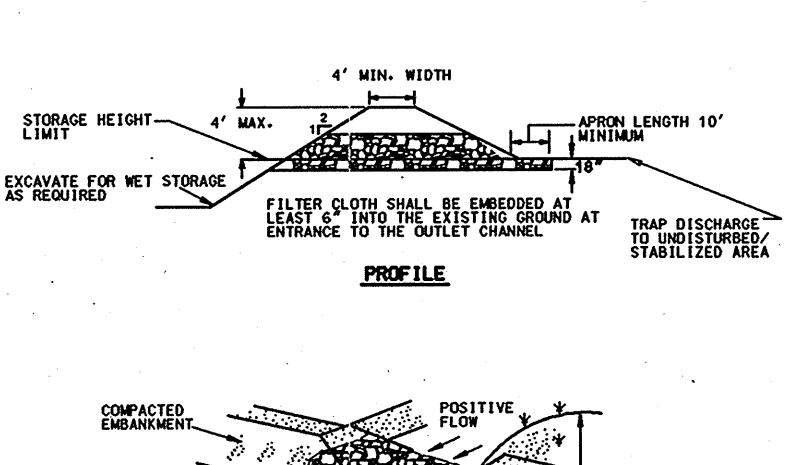
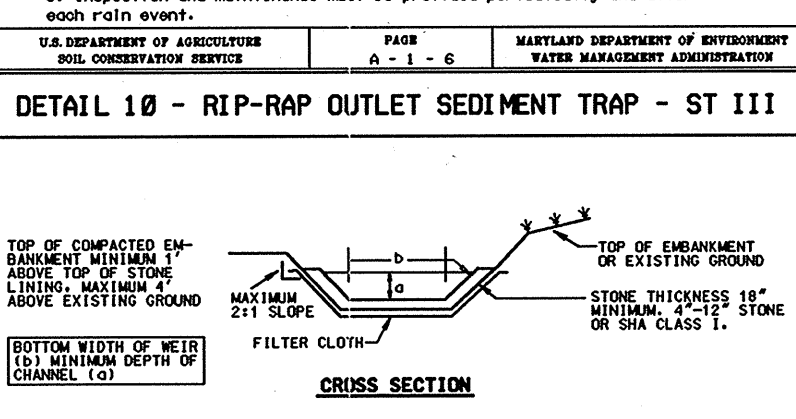
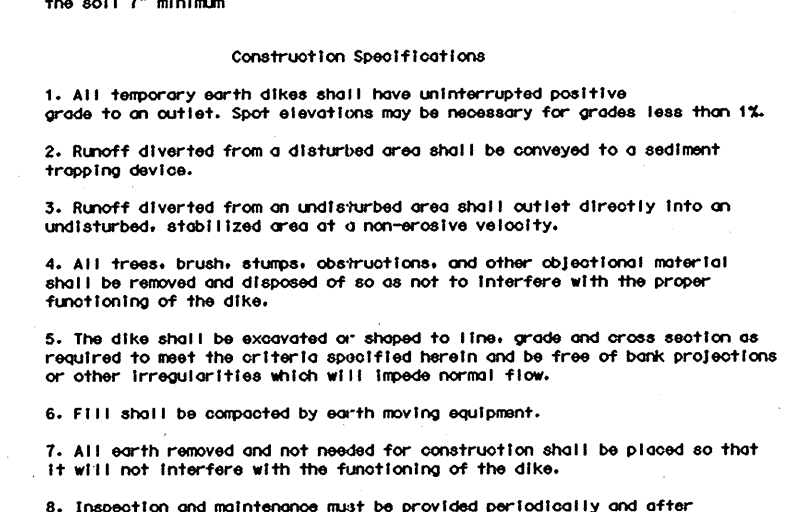
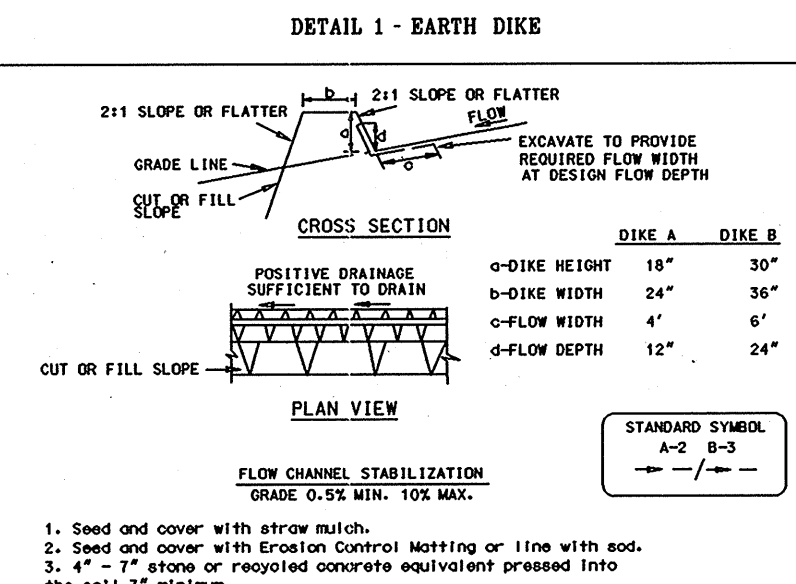
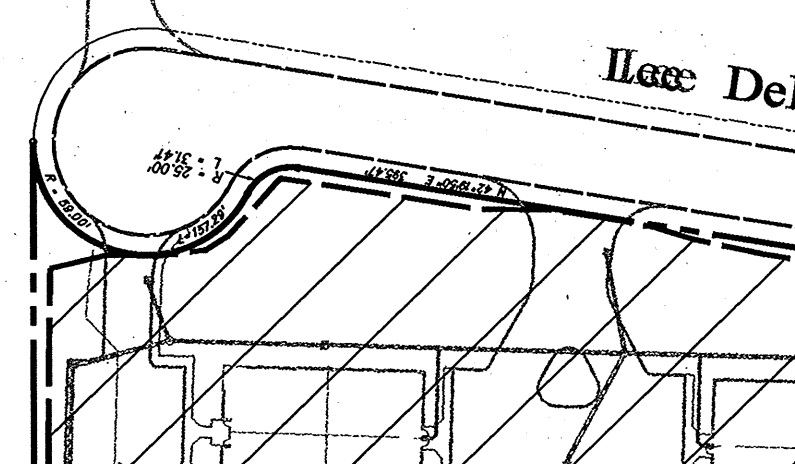
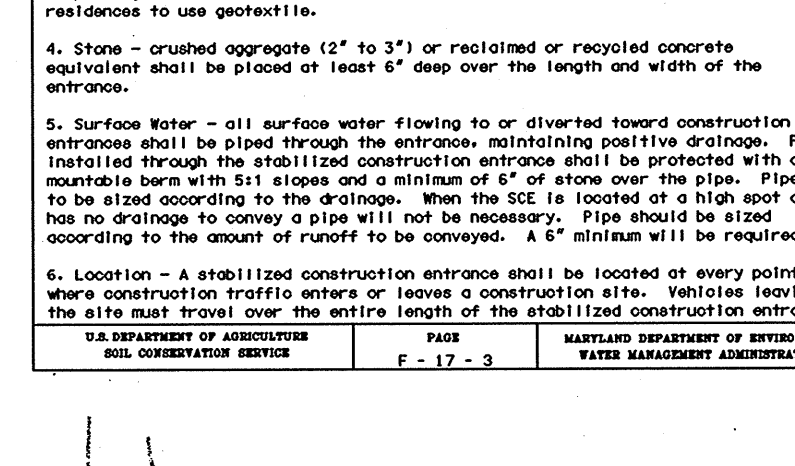
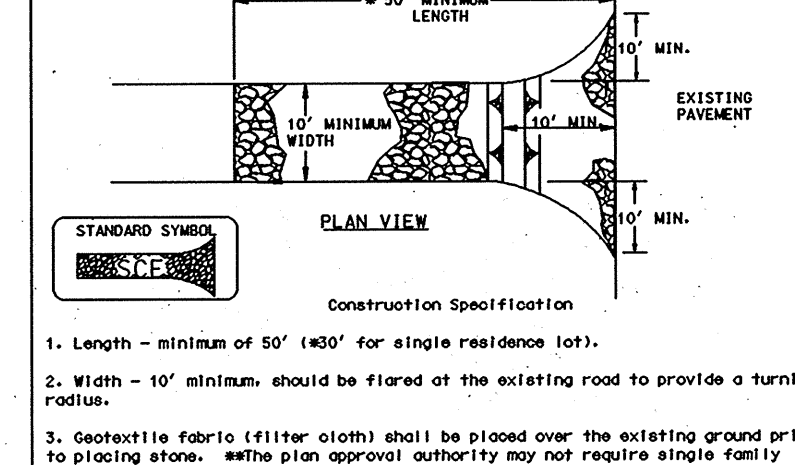
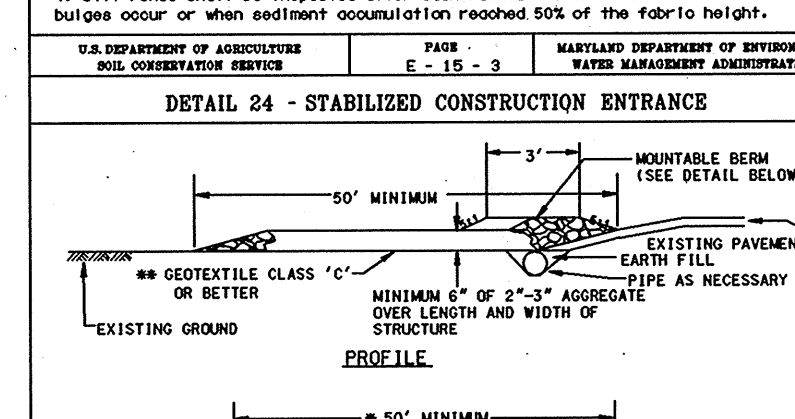
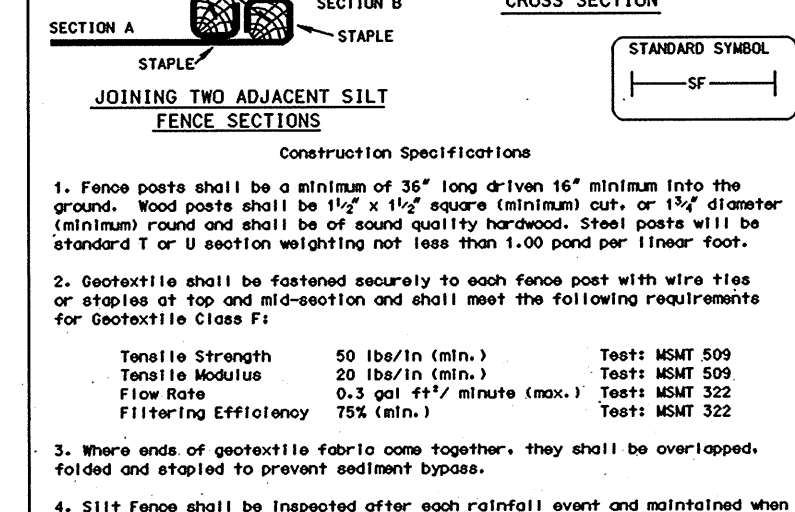
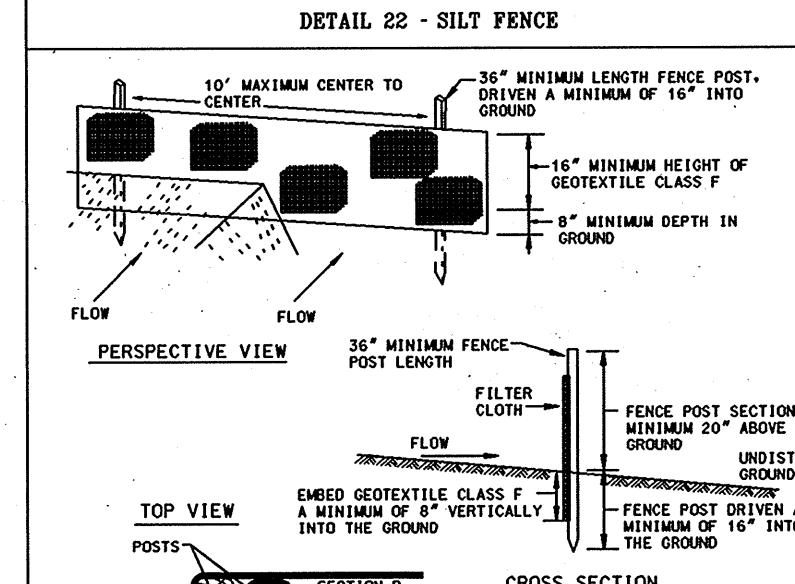
TEMPORARY METHODS:

- MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.
- VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
- TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THE RUNOFF BEGINS TO FLOW.
- BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.
- CALCIUM CHLORIDE - APPLY AT A RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT METHODS:

- PERMANENT VEGETATION - SEE STANDARDS FOR PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOD. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
- TOPSOILING - COVERING WITH LESS ERODIBLE SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING.
- STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

* PROVIDED FOR INFORMATIONAL PURPOSES ONLY. GRADING CONTRACTOR MUST PERFORM HIS OWN ANALYSIS PRIOR TO PLACING A BID ON CONTRACT



Sediment Control Standard General Notes

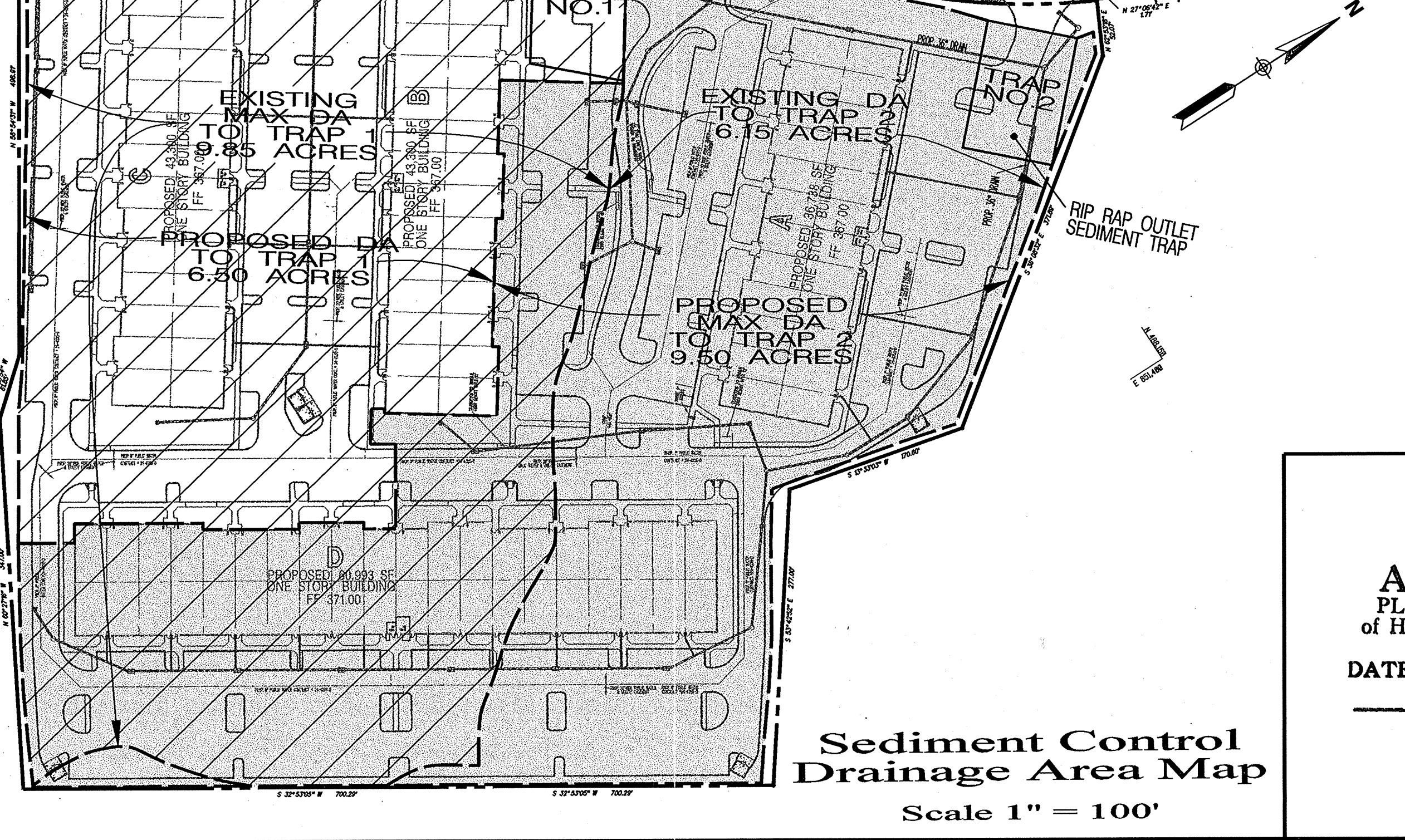
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL".
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - A SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
 - FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 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 MANUAL," STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR PERMANENT SEEDINGS, SODS, TEMPORARY SEEDING, AND MULCHING (SECTION C). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 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.

* PROVIDED FOR INFORMATIONAL PURPOSES ONLY. GRADING CONTRACTOR MUST PERFORM HIS OWN ANALYSIS PRIOR TO PLACING A BID ON CONTRACT

Matis Warfield
consulting engineers
10540 York Road Suite 100
Hunt Valley, Maryland 21086
Phone: 410-683-7004
Facsimile: 410-683-1798
www.matiswarfield.com



Developer/Contract Purchaser
AAK Lee Deforest, LLC
J. Michael Abrams, Managing Member
Abrams Development Group
5850 Waterloo Road Suite 230
Columbia, Maryland 21045
Phone: (410) 461-4340
Fax: (410) 461-5709



ENGINEER'S CERTIFICATE
I 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 Soil Conservation District.
James E. Matis
James E. Matis, P.E. MD 18848
Date: 4-25-05

DEVELOPER'S CERTIFICATE
We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will receive a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize permission for on-site inspection by the Howard Soil Conservation District.
J. Michael Abrams
For AAK Lee Deforest, LLC by J. Michael Abrams, Managing Member
Date: 4-25-05

Reviews for Howard SCD and meets Technical Requirements
Jim Mays 4/28/05
USDA - Natural Resources Conservation Service
John K. Roberts 4/28/05
Howard SCD

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
John DeMunnick 5/10/05
Chief, Development Division MK
Cathy Korman 5/19/05
Chief, Land Development Division
Dan Day 5/21/05
Director

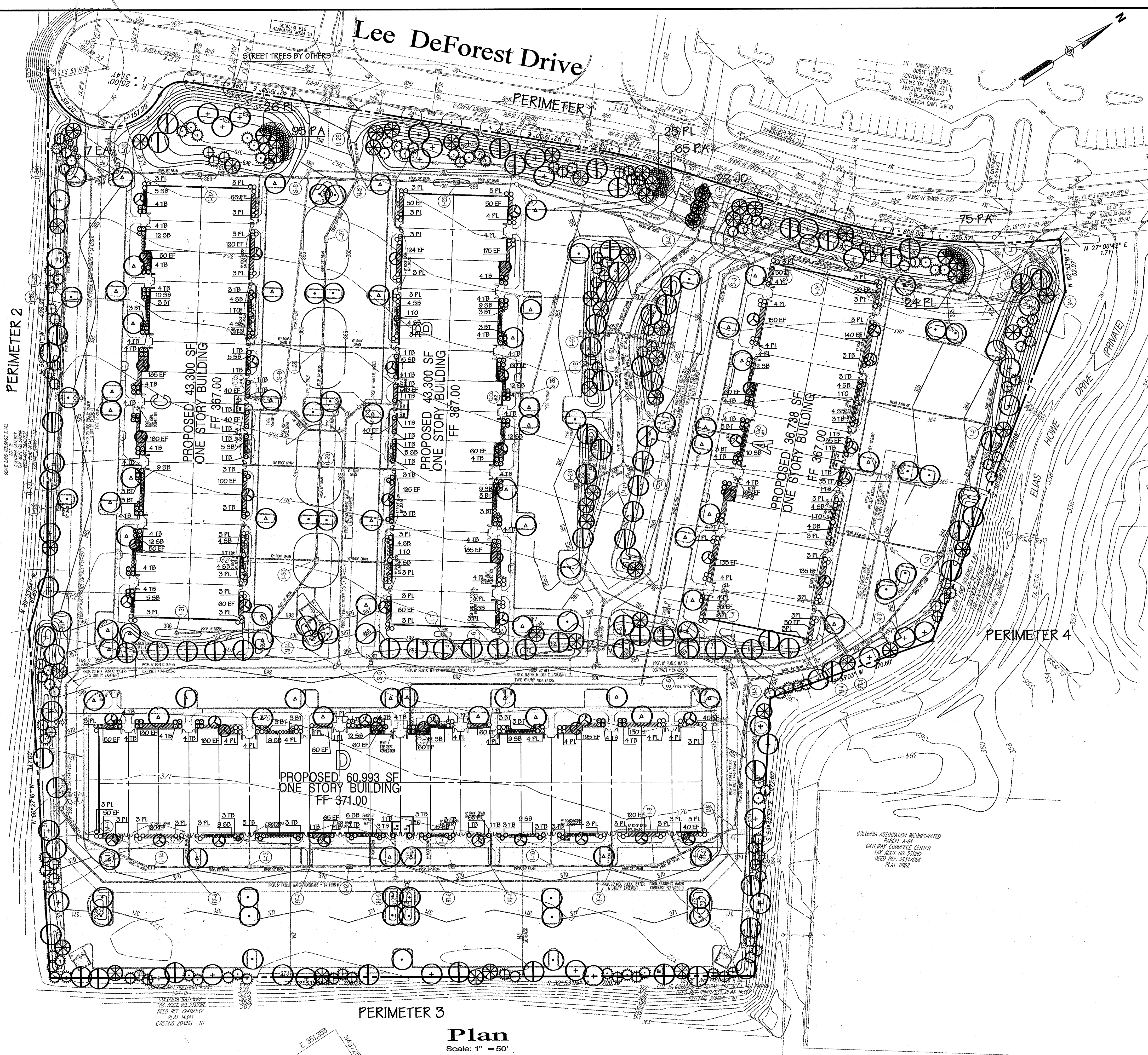
PERMIT INFORMATION CHART

| | | |
|--------------------------------------|-----------------------|--------------------------|
| Subdivision Name Columbia Gateway | Section/Area 2 | Lot/Parcel No. U-10 |
| Plat or Liber/Folio 17356 + 17357 | Grid # NT | Tax Parcel # 6067.03 |
| Water Code E 06 | Zoning 42 | Election District 6th |
| | Sewer Code 4900000 | Census Tract 6067.03 |

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE: 12/08/04

Sediment Control Drainage Area Map and Details
Proposed Offices
Parcel U-10
Columbia Gateway

Howard County, Maryland
Scale: As Shown
April 25, 2005
Sheet 12 of 14
SDP 05-058
SDP-05-058



Lee DeForest Drive

PLANT LIST

| KEY | QUANTITY | BOTANICAL NAME COMMON NAME | SIZE | CONDITION | REMARKS |
|-----|----------|---|------------------|----------------------|-----------------------------|
| 74 | 74 | ACER RUBRUM 'RED SUNSET' 'RED SUNSET' RED MAPLE | 4" CAL. | B & B | |
| 65 | 65 | GLEDTISIA TRIACANTHOS 'SHADEMASTER' 'SHADEMASTER' LOCUST | 2 1/2" - 3" CAL. | B & B | |
| 44 | 44 | PLATANUS ACERIFOLIA 'BLOODGOOD' LONDON PLANE TREE | 4" CAL. | B & B | |
| 47 | 47 | ULMUS PARVIFOLIA CHINESE ELM | 2 1/2" - 3" CAL. | B & B | |
| 49 | 49 | AMELANCHIER x GRAND 'AUTUMN BRILLIANCE' 'AUTUMN BRILLIANCE' SERVICEBERRY | 8'-10' HT. | B & B | NO MORE THAN 5 TRUNKS |
| 55 | 55 | PRUNUS INCISA x CAMPANULATA OKAME FLOWERING CHERRY | 1 1/2" - 2" CAL. | B & B | |
| 82 | 82 | PINUS STROBUS EASTERN WHITE PINE | 6'-8' HT. | B & B | SPACE 10' O.C. STAGGER |
| 56 | 56 | PICEA OMORICA SERBIAN SPRUCE | 6'-8' HT. | B & B | SPACE 10' O.C. STAGGER |
| EA | 7 | EUONYMUS ALATUS COMPACTA DWARF WINGED-EUONYMUS | 2 1/2" - 3" HT. | B & B | SPACE 5' O.C. STAGGER |
| PL | 292 | PRUNUS LAUROCERASUS 'OTTO LUYKEN' 'OTTO LUYKEN' LAUREL | 18"-24" SPD | B & B | SPACE 5' O.C. AS SHOWN |
| JC | 22 | JUNIPERUS CHINENSIS SARGENTII SARGENT'S JUNIPER | 18"-24" SPD | CONTAINER | SPACE 3' O.C. STAGGER |
| PA | 235 | PENNISETUM ALOPECUROIDES HAMELN DWARF FOUNTAIN GRASS | 2 GAL. | CONTAINER | SPACE 2' O.C. STAGGER |
| BT | 42 | BERBERIS THUNBERGII ATROPURPUREA NANA CRIMSON PYGMY BARBERY | 18"-24" | CONTAINER | SPACE 2.5' O.C. AS SHOWN |
| TB | 210 | TAXUS BACCATA REPANDENS SPREADING ENGLISH YEW | 18"-24" | B & B | SPACE 4' O.C. AS SHOWN |
| SB | 269 | SPIRAEA BUNALDA 'GOLDFLAME' 'GOLDFLAME' SPIREA | 18"-24" | CONTAINER | SPACE 3' O.C. |
| TO | 7 | THUJA OCCIDENTALIS 'EMERALD' 'EMERALD' GREEN ARBORVITAE | 4' - 5' | 10 GAL. CONTAINER | |
| EF | 4354 | EUONYMUS FORTUNEI VAR. COLORATUS PURPLELEAF WINTERCREEPER | 2 1/4" | POT | SPACE 12' O.C. STAGGER |

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 12/08/04

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief Development Engineering Division
 Chief, Division of Land Development
 Director

5/16/05
5/19/05
5/13/05

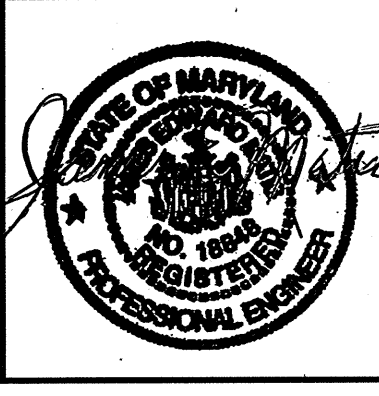
PERMIT INFORMATION CHART

| | | |
|--------------------------------------|-----------------------|---|
| Subdivision Name Columbia Gateway | Section /Area 2 | Lot /Parcel No. U-10 Tax Parcel 671 |
| Plat or LiberFolio 17366 + 17367 | Grid # 12 | Zoning NT |
| Water Code E 06 | Tax Map No. 42 | Election District 6th |
| | Sewer Code 4900000 | Census Tract 6067.03 |

Plan
Scale: 1" = 50'

Matis Warfield
consulting engineers

10540 York Road, Suite M
Hunt Valley, Maryland 21030
Phone 410-683-7000
Facsimile 410-683-1798
www.matiswarfield.com



Developer /Contract Purchaser
AAK Lee DeForest, LLC
J. Michael Abrams, Managing Member
Abrams Development Group
6850 Waterloo Road Suite 230
Columbia, Maryland 21045
Phone (410) 461-4340
Fax (410) 461-5709

LANDSCAPE ARCHITECTS
HUMAN & ROHDE, INC.
512 Virginia Avenue
Towson, Maryland 21286
410 825 3885

Developer's/Builder's Certificate:
 I / We certify that the landscaping shown on this plan will be done according to the plan, and shall be completed in accordance with this plan per Section 16.124 of the Howard County Code and the Howard County Landscape Manual.
 I / We further certify that upon completion, a Certification of Landscape installation, accompanied by an executed one year guarantee of plant materials, will be submitted to the Howard County Department of Planning and Zoning.

For: AAK Lee DeForest, LLC by J. Michael Abrams, Managing Member
Date 4-25-05

Final Landscape Plan
Proposed Offices
Parcel U-10
Columbia Gateway

Howard County, Maryland
Scale: 1" = 50'
April 25, 2005

Sheet 13 of 14
SDP 05-058
SDP-05-058

