



RZ/PCA APPLICATION ACCEPTED: July 29, 2011
RZ APPLICATION AMENDED: June 20, 2012
FDP 023 APPLICATION ACCEPTED: January 11, 2012
FDP 023 APPLICATION AMENDED: June 20, 2012
FDP 023-02 APPLICATION ACCEPTED: March 29, 2012
FDP 023-02 APPLICATION AMENDED: May 15, 2012
FDP 023-03 APPLICATION ACCEPTED: March 29, 2012
PLANNING COMMISSION: October 17, 2012
BOARD OF SUPERVISORS: October 30, 2012

County of Fairfax, Virginia

October 11, 2012

STAFF REPORT ADDENDUM

PCA 88-D-005-07 and RZ/FDP 2011-PR-023
FDP 2011-PR-023-02
FDP 2011-PR-023-03

PROVIDENCE DISTRICT

APPLICANT: Cityline Partners LLC and AMT – The Association for Manufacturing Technology

PRESENT ZONING: C-3, SC, HC

REQUESTED ZONING: PTC, SC, HC

PARCEL(S):

PCA 88-D-005-07: 29-2 ((15)) B2; 29-4 ((7)) A4; 29-4 ((7)) C1; 29-4 ((7)) C2; 29-4 ((7)) 1; 29-4 ((7)) 1A1; 29-4 ((7)) 1A2; 29-4 ((7)) 2; 29-4 ((7)) 3; 29-4 ((7)) 5A; 29-4 ((7)) 6; 29-4 ((7)) 7A1; 29-4 ((7)) 7B; 29-4 ((7)) 8; 29-4 ((7)) 9; 29-4 ((7)) 10; 29-4 ((7)) 11A

RZ 2011-PR-023: 29-4 ((7)) 1; 29-4 ((7)) 2; 29-4 ((7)) 3; 29-4 ((7)) 5A; 29-4 ((7)) 9; 29-4 ((7)) 10

FDP 2011-PR-023: 29-4 ((7)) 10

Matthew Ladd

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FDP 2011-PR-023-02: 29-4 ((7)) 5A

FDP 2011-PR-023-03: 29-4 ((7)) 1 and
29-4 ((7)) 2 pt.

ACREAGE:

<i>PCA 88-D-005-07:</i>	85.93 acres
<i>RZ 2011-PR-023:</i>	19.4 acres
<i>FDP 2011-PR-023:</i>	5.47 acres
<i>FDP 2011-PR-023-02:</i>	1.84 acres
<i>FDP 2011-PR-023-03:</i>	3.14 acres

FAR/DENSITY: 3.05 over entire RZ site

PLAN MAP: Transit Station Mixed Use

PCA PROPOSAL: Remove the subject property and an off-site parcel from the West*Park rezoning application RZ 88-D-005.

RZ PROPOSAL: Rezone 19.4 acres to PTC District to permit the development of a mixed use development consisting of eight new buildings totaling 2.6 million square feet of office, residential, retail and hotel uses.

FDP 023 PROPOSAL: Seeks FDP approval of two residential buildings on Block A with up to 8,000 square feet of retail/service uses.

FDP 023-02 PROPOSAL: Seeks FDP approval for a 200,000 square foot office building on Block F including 2,156 square feet of supporting ground floor retail/service uses.

FDP 023-03 PROPOSAL: Seeks FDP approval of one residential building on Block E with 430 to 480 dwelling units.

STAFF RECOMMENDATIONS:

Staff recommends approval of PCA 88-D-005-07, subject to the execution of proffers consistent with those found in Appendix 1A of the staff report.

Staff also recommends approval of RZ 2011-PR-023, subject to execution of proffers consistent with those found in Attachment 1 of the staff report addendum (as may be amended to address outstanding issues).

Staff recommends approval of FDP 2011-PR-023, subject to the Board's approval of RZ 2011-PR-023.

Staff recommends approval of FDP 2011-PR-023-02, subject to the Board's approval of RZ 2011-PR-023.

Staff recommends approval of FDP 2011-PR-023-03, subject to the Board's approval of RZ 2011-PR-023.

Staff further recommends approval of the following waivers and/or modifications for these applications:

- Modification of Sect. 2-506, Par. 2 of the Zoning Ordinance in order to permit the proposed roof/roof screen feature element in Block F as depicted on the CDP/FDP;
- Waiver of Sect. 16-403 of the Zoning Ordinance in order to permit a public improvement plan for frontage improvements along Westpark and Westbranch Drive to be filed without the need for an FDP;
- Waiver of Sect. 6-505, Par. 7 of the Zoning Ordinance in order to permit outdoor displays and seating associated with a permitted use without the need for an FDP;
- Modification of Sect. 10-104, Par. 3E and G of the Zoning Ordinance to permit the maximum fence height associated with outdoor recreation/sports courts on Block to be between 7 and 14 feet height as depicted on the CDP;
- Modification of Sect. 11-102, Par. 12 of the Zoning Ordinance and Section 7-0800 of the Public Facilities Manual (PFM) to permit tandem and valet spaces to be counted toward the required parking only in those instances contained in the proffers;
- Modification of Sect. 11-201 and 11-203 of the Zoning Ordinance to permit the minimum required loading spaces to be two spaces per building as depicted on the CDP;
- Modification of Sect. 11-202, Par. 4 of the Zoning Ordinance to permit the loading space in Building A-2 as shown on the CDP;
- Modification of Sect. 13-202, Par. 8 of the Zoning Ordinance to permit the depicted trellises and/or vegetated arbors as shown on the CDP in lieu of the required interior parking lot landscaping;
- Modification of Sect. 13-202, Par. 8 of the Zoning Ordinance to permit the existing parking lot landscaping as depicted on the CDP and described in the proffers to serve as the interior parking lot landscaping on an interim basis;
- Modification of Sect. 13-202, Par. 8 of the Zoning Ordinance to permit the landscaping within the amenity courtyard of Block E in lieu of the interior parking lot landscaping requirement;
- Modification of Sect. 13-203, Par. 5 of the Zoning Ordinance to permit the landscaping depicted on the above-grade parking structures and within the interim surface parking lots as shown on the CDP and described in the proffers;

- Modification of Sect. 17-201, Par. 2 and 4 of the Zoning Ordinance to permit the interim road improvements along the Block F frontage as shown on the CDP;
- Waiver of Sect. 17-201, Par. 3B of the Zoning Ordinance to permit only those areas of interparcel access shown on the CDP/FDPs and described in the proffers to be provided;
- Waiver of Sect. 17-201 Par. 3B, 4, 12, 13, and 14 of the Zoning Ordinance to permit the proposed Jones Branch Drive frontage improvements along Tax Map Parcel 29-2 ((15)) B2 as depicted on Exhibit A of the proffers;
- Modification of Sect. 7-0800.2 of the PFM to allow up to 1.5 feet of structural columns to project into the required parking stall area for no more than 10% of the total parking spaces provided;
- Modification of the tree preservation target in favor of that shown on the plans and as proffered; and
- Waiver to allow the use of underground stormwater management and best management practices in a residential development, subject to Waiver #6377-WPFM-004-1.

It should be noted that it is not the intent of staff to recommend that the Board, in adopting any conditions proffered by the owner, relieve the applicant/owner from compliance with the provisions of any applicable ordinances, regulations, or adopted standards.

It should be further noted that the content of this report reflects the analysis and recommendations of staff; it does not reflect the position of the Board of Supervisors.

The approval of this rezoning does not interfere with, abrogate or annul any easement, covenants, or other agreements between parties, as they may apply to the property subject to this application.

For information, contact the Zoning Evaluation Division, Department of Planning and Zoning, 12055 Government Center Parkway, Suite 801, Fairfax, Virginia 22035-5505, (703) 324-1290.

X:\DPZ\Tysons-Core\CASES\West Park (Arbor Row) RZ 2011-PR-023\Staff Report\Cover Sheet.doc



Americans with Disabilities Act (ADA): Reasonable accommodation is available upon 48 hours advance notice. For additional information on ADA call (703) 324-1334 or TTY 711 (Virginia Relay Center).

BACKGROUND

As described in the staff report which was published on September 13, 2012, the applicant, Cityline Partners LLC, requests to rezone the property at Tax Map 29-4 ((7)) 1, 2, 3, 5A, 9, and 10 from the C-3 to the PTC zoning district.

The 19.4 acre site is currently developed with a five office buildings and associated surface parking lots, all of which would be razed as the site is redeveloped. The rezoning application proposes a mixed-use, transit-oriented development within 1/2 mile of the future Tysons Corner Metro station. The proposed development includes approximately 2.6 million square feet (SF) of new development including 1.1 million SF of office space, 1.2 million SF of new residential development (between 880 and 1,174 units), 162,000 SF of hotel space, and 58,656 SF of ground floor retail and service uses for an overall floor area ratio (FAR) of 3.05.

During the September 27, 2012, Planning Commission hearing, several outstanding issues and concerns were presented. In response to these issues, the applicant submitted a revised Conceptual Development Plan (CDP) and revisions to each of the three Final Development Plans (FDPs) on October 5, 2012. The applicant also submitted a revised draft proffer statement for RZ 2011-PR-023 on October 10, 2012. This addendum describes the plans and proffers that have been submitted since the publication of the staff report and describes the extent to which these revisions address the remaining issues.

ANALYSIS

Proffer Changes

Adjustments to Gross Floor Area

Proffer 10 describes the parameters under which gross floor area (GFA) may be shifted between Blocks B, C, and D. This proffer has been revised to indicate that the GFA for each building in these blocks will be established with the approval of a site plan based on when the site plan is accepted for review by the County. This revision addresses staff's concerns about the process through which GFA can be adjusted.

Uses in Live-Work Units

The applicant has revised Proffer 14 to exclude certain uses from the non-residential portion of the live-work units which could be built on the ground floor of residential buildings in the event that these spaces cannot be leased to retail tenants. This proffer has also been revised to define a live-work unit as "a combination of a private dwelling unit with retail or other non-residential use with the dwelling unit occupied by the proprietor, storekeeper or employee and his/her family of the non-residential use."

Green Buildings

The applicant has added a commitment in Proffers 28 and 29 to achieve LEED Silver for Block D, which is the site of a proposed hotel. To ensure that this commitment is satisfied, the applicant is proffering to either demonstrate that Block D will attain a sufficient number of

credits to achieve LEED Gold Certification or to post an escrow of \$2.00 per square foot. Staff finds that these proffers are consistent with the applicant's green building commitments for the other proposed non-residential buildings and with the Comprehensive Plan recommendations for non-residential buildings in Tysons

Streetscape Maintenance and Public Access

The staff report raised an issue with the applicant's proffer regarding the maintenance of public streetscape areas (Proffer 46). However, after further deliberation, staff feels that this proffer does in fact meet the intent of the Comprehensive Plan.

Proffer 48 has been revised to state that public access easements on privately owned streetscape areas will only be recorded on the sidewalk zone and landscape amenity panel, as recommended in the staff report.

Athletic Fields and Stream Improvements

The applicant has made significant revisions to Proffers 50 and 51 which resolve some, but not all, of the outstanding issues mentioned in the staff report related to the athletic fields and stream improvements on Tax Map 29-4 ((7)) B2 (Parcel B2). The timing of the completion of these improvements on Parcel B2 has been changed from December 31, 2014, to June 30, 2015, which staff believes is a more realistic timeframe for design, permitting, and construction. The applicant has committed to work with the Park Authority Trails coordinator to reduce the slope of the proposed stream valley trail connection. The applicant has also revised the stream improvements proffer: to clarify that off-site work may be done if necessary easements and indemnification agreements are provided by adjacent property owners; to state that required maintenance of Pond D will be performed in conjunction with stream improvements; and to state how the applicant will proceed if the stream improvements are projected to exceed the \$500,000 cap.

Despite these changes, staff still has concerns with the stream improvement proffers. First, the applicant proposes to construct stream bank stabilization improvements "*as determined in consultation with DPWES, the Park Authority, and the U.S. Army Corps of Engineers.*" Because Parcel B2 will ultimately be dedicated to the County and because the Army Corps of Engineers will issue the permits to complete the work, staff believes that those three parties should have final approval of the proposed improvements. Second, the draft proffers state that "[t]he Stream Restoration Improvements shall not include any work related to the existing structures on Parcel A4 or any soils or erosion surrounding such structures." Staff is concerned that this sentence could prevent the applicant from restoring a section of the stream that is impacting an off-site parking structure. This sentence should be clarified to allow stream improvements but not to commit the applicant to perform any geotechnical work related to off-site structures. Third, staff is concerned with a provision that would allow the applicant to provide the balance of unspent funds to the County in lieu of constructing the stream improvements.

Staff's final concern is related to Proffers 50 and 51. Both these proffers continue to include provisions stating that the County cannot withhold certain site plan and building permit approvals if the athletic fields and stream improvements. Staff does not support these provisions as currently written. As stated in the staff report, staff believes that these proffer provisions would make it very difficult for the County to enforce the proffers in the event that the improvements are not built.

Staff will continue to work with the applicant to resolve the outstanding issues related to athletic fields and stream improvements.

Trail Connections

Proffers 55 and 58 have been revised to clarify that the applicant may bear some administrative costs for the provision of off-site easements for connections to trails located on adjacent properties and that the applicant will provide the County with documentation of efforts to obtain such easements if requested.

Westpark Drive Public Improvement Plan

Proffer 61 has been revised to state that the applicant "*shall use good faith commercially reasonable efforts*" to construct the interim streetscape improvements and utility relocations shown on the CDP. While this commitment is stronger than in the previous draft of the proffers, staff continues to encourage the applicant to affirmatively commit to completing these improvements in conjunction with construction of the first new building on the subject site. Should no public improvement plan be implemented, the applicant should commit to install the proposed streetscape improvements in front of any interim parking lots.

Tysons Transportation Funding

Consistent with the Planning Commission (PC) recommendations to the Board of Supervisors (BOS) on funding transportation improvements in Tysons, the applicant has removed a clause from Proffer 74 that stated that Table 7 contributions would be provided only if the Board establishes a service district. With the deletion of this clause, staff believes that the applicant's commitments to transportation funding are consistent with the PC recommendations and the Comprehensive Plan goals to phase development to transportation improvements and funding.

Transportation Demand Management (TDM)

The applicant has refined Proffer 78 to address issues raised in the staff report. A sentence stating that contributions to the TDM incentive fund could be used for multimodal facilities has been deleted. A provision that the use of TDM penalty funds must be approved by the applicant's TDM Program Manager has also been removed.

Parking

Proffer 89 now commits the applicant to unbundle parking spaces from all for-sale and leased residential units, consistent with the Comprehensive Plan recommendations.

Affordable Housing

As recommended in the staff report, Proffer 93 has been revised to clarify that non-residential contributions toward affordable housing will be provided prior to the issuance of the initial Non-RUP for each non-residential building.

Stormwater Management

The applicant has revised Proffer 94 to affirmatively commit to achieve the LEED stormwater management design credits and to retain or reuse the first inch of rainfall to the extent practicable. The applicant has added language to this proffer stating that any combination of low impact development (LID) measures may be used to achieve the goal of retaining or reusing the first inch of rainfall, subject to review and approval of the Department of Public Works and Environmental Services (DPWES). Staff finds that these revisions, combined with the plan changes discussed below, are in harmony with the Comprehensive Plan.

Noise Impacts

Proffer 95 has been revised to specify that noise studies will be submitted to the Chief of the Environment and Development Review Branch (EDRB) of the Department of Planning and Zoning (DPZ) and to DPWES. The EDRB Chief will determine whether such studies ensure compliance with County policy.

Tree Canopy

As recommended in the staff report, the applicant has revised Proffer 103 to commit to post a bond equal to 50% of the value of trees greater than 12 inches in diameter that are located within 25 feet of the limits of disturbance for Building A1.

Plan Changes (CDP/FDPs)

As noted earlier in this addendum, the applicant has submitted a revised CDP entitled *Arbor Row* and three revised FDPs, including: *Arbor Row – Block A*; *The Association of Manufacturing Technology, Arbor Row – Block F*; and *Arbor Row – Block E*. All four of these plans are revised through October 5, 2012.

Modifications and Waivers

The applicant has revised the list of requested modifications and waivers to include only those modifications and waivers that are supported by staff.

Stormwater Management

The applicant has removed notes from the Block A and Block E FDP stating that amount of rainfall to be retained or reused on site would be subject to change at final design. A new note has been added to the CDP and all three FDPs stating that the applicant will work with the County to retain the first inch of rainfall to the extent practicable. The note also states that the applicant may use any combination of LID measures to meet the first inch goal, subject to DPWES approval at the time of site plan. Staff finds that this note brings the applications into conformance with the Comprehensive Plan and that the proposed FDP conditions related to stormwater management that were included in the staff report are no longer necessary.

Tree Canopy and Preservation Calculations

The applicant has revised the tree canopy and tree preservation calculations on the CDP and FDPs as recommended in the staff report.

Block A Fire Access

The Fire Vehicular Access Exhibit on the Block A FDP has been revised to include a note stating that any buildings that are not of Construction Type 1 or 2 shall use non-combustible exterior materials. With the addition of this note, staff finds that the proposed FDP condition for Block A is no longer necessary.

Block E Park

The applicant has redesigned the Block E Park to address staff's concerns. Specifically, the walkway and a potential bioretention area have been relocated to allow for a larger contiguous lawn area.

Block F Interim Westpark Drive Improvements

The applicant has redesigned the proposed interim median of Westpark Drive east of Block F as recommended in the staff report. This interim design would only be constructed in the event that the communication cabinet associated with the I-495 Express Lanes is not removed by the Express Lanes project prior to redevelopment of Block F.

Modifications and Waivers

After the staff report was published, the applicant provided additional details and clarification for some of the requested modifications and waivers. Based on this new information, which has been provided in the plans and proffers, staff recommends approval of the following modifications and waivers in addition to those listed in the staff report.

- Modification to Allow Tandem and Valet Parking Spaces

The applicant seeks a modification of Par. 12 of Sect. 11-102 of the Zoning Ordinance to permit the use of tandem and valet spaces pursuant to the parking plan filed with the rezoning application. The applicant notes that tandem and valet spaces are commonly found in urban areas and provide for increased garage capacity and efficiency. Within the revised proffers, the applicant has now committed that *"tandem parking spaces may be used for residential units with two cars and in office and hotel buildings where spaces are assigned by building management."* With that commitment, staff can support the requested modification.

Staff recommends that the BOS modify Par. 12 of Sect. 11-102 of the Zoning Ordinance and Section 7-0800 of the Public Facilities Manual (PFM) to permit tandem and valet spaces to be counted toward the required parking only in those instances contained in the proffers.

- Modification of Location of Loading Space

The applicant seeks a modification of Par. 4 of Sect. 11-202 of the Zoning Ordinance which requires that no loading space or berth be located within 40 feet of the nearest point of intersection of the edges of the travelway or the curbs of any two streets. Specifically, a proposed loading area at the back of Building A-2 is located within 40 feet of the private street's intersection with Westbranch Drive. Staff has reviewed the location of this loading space and can support the requested modification.

Staff recommends that the BOS modify Par. 4 of Sect. 11-202 of the Zoning Ordinance to permit the loading space in Building A-2 as shown on the CDP.

- Modification of Frontage Improvements

The applicant seeks a modification of Par. 2 and 4 of Sect. 17-201 of the Zoning Ordinance which require the construction of trails and street improvements indicated on the Comprehensive Plan. This request is specifically for the interim street improvements proposed adjacent to Block F which would be constructed only if the Express Lanes communications cabinet is not removed prior to the redevelopment of Block F. The applicant is committing to construct the ultimate improvements after the communications cabinet has been removed. The applicant has also revised the design of these interim street improvements to be consistent with staff's recommendations. Staff supports the requested modification.

Staff recommends that the BOS modify Par. 2 and 4 of Sect. 17-201 of the Zoning Ordinance to permit the interim road improvements along the Block F frontage as shown on the CDP and discussed in the proffers.

- Modification of Parking Geometric Standards

The applicant seeks a modification of Sect. 7-0800.2 of the PFM, which sets the minimum dimensions for parking spaces. Specifically, the applicant is requesting that the stall width be reduced by up to 1.5 feet to allow for the projection of structural columns for up to 10% of the parking spaces provided. With these limits on the extent of the projection and number of spaces that may be impacted, staff supports the requested modification.

Staff recommends that the BOS modify Sect. 7-0800.2 of the PFM to allow up to 1.5 feet of structural columns to project into the required parking stall area for no more than 10% of the total parking spaces provided.

- Modification of Tree Preservation Target

The applicant seeks a modification of the tree preservation target set forth in Sect. 12-0508. This request is based on allowable deviations listed in Sect. 12-0508.3 due to the density permitted by the Zoning Ordinance and due to the expected impacts based on construction methods. Staff notes that the applicant has revised the tree canopy coverage calculations to include an area of tree preservation in the RPA located on Block A. Staff supports the requested modification.

Staff recommends that the BOS modify the tree preservation target in Sect. 12-0508 of the PFM in favor of that shown on the plans and as proffered.

- Other Requested Waivers and Modifications

Staff believes that the remaining requested modifications and waivers listed on the CDP are unnecessary because the proposed plans meet the applicable Zoning Ordinance and PFM standards. The deviations from the PFM stormwater management design standards listed on the CDP should be evaluated at the time of site plan.

CONCLUSION

Staff continues to recommend approval of this application. However, staff remains deeply concerned about the specific commitments to off-site stream improvements and the ability to withhold certain plan approvals and building permits if the stream improvements and athletic fields are not provided in the time frame specified in the proffers.

Staff will continue to work with the applicant to address these issues and is hopeful that resolution can be achieved prior to Planning Commission action on these applications.

RECOMMENDATION

Staff recommends approval of PCA 88-D-005-07, subject to the execution of proffers consistent with those found in Appendix 1A of the staff report.

Staff also recommends approval of RZ 2011-PR-023, subject to execution of proffers consistent with those found in Attachment 1 of the staff report addendum (as may be amended to address outstanding issues).

Staff recommends approval of FDP 2011-PR-023, subject to the Board's approval of RZ 2011-PR-023.

Staff recommends approval of FDP 2011-PR-023-02, subject to the Board's approval of RZ 2011-PR-023.

Staff recommends approval of FDP 2011-PR-023-03, subject to the Board's approval of RZ 2011-PR-023.

Staff further recommends approval of the following waivers and/or modifications for these applications:

- Modification of Sect, 2-506, Par. 2 of the Zoning Ordinance in order to permit the proposed roof/roof screen feature element in Block F as depicted on the CDP/FDP;
- Waiver of Sect. 16-403 of the Zoning Ordinance in order to permit a public improvement plan for frontage improvements along Westpark and Westbranch Drive to be filed without the need for an FDP;
- Waiver of Sect. 6-505, Par. 7 of the Zoning Ordinance in order to permit outdoor displays and seating associated with a permitted use without the need for an FDP;

- Modification of Sect. 10-104, Par. 3E and G of the Zoning Ordinance to permit the maximum fence height associated with outdoor recreation/sports courts on Block to be between 7 and 14 feet height as depicted on the CDP;
- Modification of Sect. 11-102, Par. 12 of the Zoning Ordinance and Section 7-0800 of the Public Facilities Manual (PFM) to permit tandem and valet spaces to be counted toward the required parking only in those instances contained in the proffers;
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- Modification of Sect. 11-202, Par. 4 of the Zoning Ordinance to permit the loading space in Building A-2 as shown on the CDP;
- Modification of Sect. 13-202, Par. 8 of the Zoning Ordinance to permit the depicted trellises and/or vegetated arbors as shown on the CDP in lieu of the required interior parking lot landscaping;
- Modification of Sect. 13-202, Par. 8 of the Zoning Ordinance to permit the existing parking lot landscaping as depicted on the CDP and described in the proffers to serve as the interior parking lot landscaping on an interim basis;
- Modification of Sect. 13-202, Par. 8 of the Zoning Ordinance to permit the landscaping within the amenity courtyard of Block E in lieu of the interior parking lot landscaping requirement;
- Modification of Sect. 13-203, Par. 5 of the Zoning Ordinance to permit the landscaping depicted on the above-grade parking structures and within the interim surface parking lots as shown on the CDP and described in the proffers;
- Modification of Sect. 17-201, Par. 2 and 4 of the Zoning Ordinance to permit the interim road improvements along the Block F frontage as shown on the CDP;
- Waiver of Sect. 17-201, Par. 3B of the Zoning Ordinance to permit only those areas of interparcel access shown on the CDP/FDPs and described in the proffers to be provided;
- Waiver of Sect. 17-201 Par. 3B, 4, 12, 13, and 14 of the Zoning Ordinance to permit the proposed Jones Branch Drive frontage improvements along Tax Map Parcel 29-2 ((15)) B2 as depicted on Exhibit A of the proffers;

- Modification of Sect. 7-0800.2 of the PFM to allow up to 1.5 feet of structural columns to project into the required parking stall area for no more than 10% of the total parking spaces provided;
- Modification of the tree preservation target in favor of that shown on the plans and as proffered; and
- Waiver to allow the use of underground stormwater management and best management practices in a residential development, subject to Waiver #6377-WPFM-004-1.

It should be noted that it is not the intent of staff to recommend that the Board, in adopting any conditions proffered by the owner, relieve the applicant/owner from compliance with the provisions of any applicable ordinances, regulations, or adopted standards.

It should be further noted that the content of this report reflects the analysis and recommendations of staff; it does not reflect the position of the Board of Supervisors.

ATTACHMENTS:

1. Revised Proffers dated October 10, 2012
2. Revised CDP and three FDPs dated October 5, 2012

RZ 2011-PR-023
ARBOR ROW
PROFFER STATEMENT

September 14, 2011

February 24, 2012

May 25, 2012

July 23, 2012

August 31, 2012

September 10, 2012

October 10, 2012



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EXHIBITS

- Exhibit A: Playing Fields and Public Facilities Exhibit
- Exhibit B: Cover Sheet and Table of Contents of TDM Plan, dated August 31, 2012

**ARBOR ROW
RZ 2011-PR-023**

PROFFER STATEMENT

September 14, 2011

February 24, 2012

May 25, 2012

July 23, 2012

August 31, 2012

September 10, 2012

October 10, 2012

Rezoning Application RZ 2011-PR-023 (the "Rezoning") has been filed by and on behalf of (i) CITYLINE PARTNERS LLC, as applicant, (ii) FRANKLIN 7903 WESTPARK LLC, GRAYSON 7913 WESTPARK LLC, CAMPBELL-SCOTT WESTPARK LLC, ESSEX 7929 WESTPARK LLC and FREDERICK 8003 WESTPARK LLC, as owners of land identified as Fairfax County Tax Map Parcels 29-4-((7))-1, -2, -3, -9 and -10 (collectively the "Cityline Property"), (iii) AMT-THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY, as owner of land identified as Fairfax County Tax Map Parcel 29-4-((7))-5A (the "AMT Property"), and (iv) the BOARD OF SUPERVISORS OF FAIRFAX COUNTY, VIRGINIA (the "Board"), as owner of an approximately 3,428 square foot portion of the Westbranch Drive right-of-way proposed for future abandonment and/or vacation. Such right-of-way, together with the Cityline Property and the AMT Property, are referred to collectively as the "Subject Property." The Rezoning seeks to rezone the Subject Property from the C-3 (proffered), SC and HC Districts to the PTC-Planned Tysons Corner Urban ("PTC"), SC and HC Districts.

Pursuant to Sect. 15.2-2303(A) of the Code of Virginia (1950), as amended, and Sect. 18-204 of the Zoning Ordinance of Fairfax County (1978), as amended, the applicant and the property owners on behalf of themselves and their respective successors and/or assigns (referred to hereafter, both collectively and, where appropriate, individually as the "Applicant"), hereby proffer that redevelopment of the Subject Property shall be in accordance with the following conditions (the "Proffers") if, and only if, the Rezoning, as proposed by the Applicant, is granted by the Board. If the Rezoning is granted by the Board, these Proffers shall replace and supersede any and all existing proffered conditions applicable to the Subject Property. In the event the Rezoning is denied by the Board, these Proffers shall immediately be null and void and the previous proffered conditions shall remain in full force and effect.

GENERAL

1. Substantial Conformance. Subject to the Proffers and the provisions of Sect. 6-500, Sect. 16-400 and Sect. 18-204 of the Zoning Ordinance of Fairfax County, as amended (the "Zoning Ordinance"), the Subject Property shall be developed in substantial conformance with the proffered elements of the Arbor Row Conceptual Development Plan ("CDP") dated April 26, 2011, as revised through October 5, 2012, and prepared by Bowman Consulting Group, Ltd.,

WDG Architecture, PLLC, Shalom Baranes Associates, P.C., KGD Architecture and Parker Rodriguez, Inc., and as further modified by these Proffers.

2. Redevelopment of Blocks A through F. The Subject Property is divided into six (6) separate redevelopment "Blocks," which are identified on the CDP as Blocks A through F. Development of each Block may proceed in any order, provided that each such Block provides the phasing conditions depicted for such Block on the CDP and that all Proffers that apply to such Block are addressed with the redevelopment of that Block. Where a Proffer establishes an obligation that applies to redevelopment of a specific Block, reference to the "Applicant" in such Proffer shall mean the party undertaking the redevelopment of such Block.

3. Proffered CDP Elements. The proffered elements of the CDP are limited to the grid of streets, the general location of the points of access to each Block of the proposed redevelopment, the general location of the buildings, mix of uses, the build-to lines, the overall maximum gross floor area ("GFA") for the Subject Property, the minimum and maximum building heights, the minimum amount and general location of publicly-accessible urban park land as may be applicable for each Block and the general quality and character of the streetscape along the public and private streets within and abutting the Subject Property and as otherwise specified in these Proffers. Other elements of the CDP may be adjusted or modified with future Final Development Plan ("FDP") approvals in accordance with Sect. 16-402 of the Zoning Ordinance.

4. Minor Modifications to the CDP. In addition to adjustment of GFA among and within uses and buildings in certain Blocks as provided for below, minor modifications to the CDP may be permitted as determined by the Zoning Administrator, including the flexibility to modify the layout shown on the CDP for each respective Block, without requiring approval of an amended CDP, provided such modifications are in substantial conformance with the CDP and these Proffers and do not affect the proffered elements of the CDP as specified in these Proffers. Building envelopes and the number of units, rooms, floors and square footage within and among the buildings may be adjusted as set forth on the CDP and in these Proffers, as long as (i) the build-to lines shown on the CDP are maintained; (ii) the minimum and maximum number of residential units and the minimum and maximum building heights comply with those indicated on the CDP and in these Proffers; and (iii) the redevelopment otherwise is in substantial conformance with the CDP and these Proffers.

5. Severability and Future PCA/CDPA/FDP/FDPA/SE/SP Applications. Any one or more of the individual Blocks A through F as shown on the CDP may be the subject of a separate Proffered Condition Amendment ("PCA"), Conceptual Development Plan Amendment ("CDPA"), Final Development Plan ("FDP"), Final Development Plan Amendment ("FDPA"), Special Exception ("SE"), Special Permit ("SP"), variance and/or other similar land use applications, without joinder and/or consent of the owners of any of the other Blocks, provided such application will not change or cause or require a change to the general layout, physical improvements and/or access for another Block. In addition, pursuant to Par. 6 of Sect. 18-204 of the Zoning Ordinance, any portion of any Block may be the subject of a separate PCA, CDPA, FDP, FDPA, SE, SP, variance and/or other similar land use applications, without joinder and/or

consent of the owners of the other portions of such Block or of any other Block, provided that such application does not materially or adversely affect the general layout, minimum and maximum building height, physical improvements and/or access for other portions of such Block or any other Block. All existing land use approvals that are applicable to the portion of the Subject Property not included in such PCA, CDPA, FDP, FDPA, SE, SP, variance and/or other similar land use applications shall otherwise remain in full force and effect as to such portion of the Subject Property.

6. Final Development Plans. FDP and FDPA approvals may be requested from the Planning Commission in accordance with Sect. 16-402 of the Zoning Ordinance with respect to each respective Block, or portion thereof, without obtaining the consent and/or joinder of the owners of any of the other Blocks. FDPs approved for individual Blocks or building sites on the Subject Property shall establish the maximum GFA for each Block or building shown on the FDP, within the limits established by these Proffers and the CDP, including adjustments between buildings as set forth in these Proffers and on the CDP. The specific GFA for each building shall be established at the time of final site plan approval for such building; however, adjustments between buildings on Blocks A through E may be permitted as set forth in these Proffers and on the CDP.

7. Final Development Plan Information. The following Final Development Plans have been filed concurrently with this Rezoning Application: FDP 2011-PR-023 for Block A, FDP 2011-PR-023-3 for Block E and FDP 2011-PR-023-2 for Block F. For all other FDP and FDPA Applications for all or any portion of the Subject Property not filed concurrently with this Rezoning Application, the following tabulations and information shall be provided:

- A. A tabulation indicating the redevelopment status of the entire Subject Property. The tabulation shall include a listing of all existing and proposed buildings, along with the GFA and uses approved on the CDP and all approved FDPs and any approved site plans. The tabulation shall identify the reassignment of any GFA within Blocks A through E (as compared with what was originally shown on the applicable CDP), exclusive of Block F, and shall be updated with each subsequent FDP, FDPA and site plan approved for the Subject Property.
- B. A tabulation indicating the tree canopy calculations of the entire Subject Property, which shall be updated with each subsequent FDP, FDPA and site plan approved for the Subject Property.
- C. The following information to supplement the requirements of the Zoning Ordinance: (i) a copy of the previous TDM Annual Report to determine progress toward attaining TDM goals and any planned modifications to the TDM Program; (ii) location of existing and proposed utilities to serve the area subject to such FDP, FDPA or site plan; (iii) vehicular sight distance lines at all intersections adjacent to the area subject to such FDP, FDPA or site plan based on existing posted/design speeds as well as future

design speeds, as established in the approved "Transportation Design Standards for the Tysons Corner Urban Center," dated September 13, 2011 (the "Transportation Design Standards"), as may be amended by the Board, except as waived or modified by the Virginia Department of Transportation ("VDOT") and/or FDCOT; and (iv) a comparison of the trip generation based on the Institute of Traffic Engineers, 8th Edition, Trip Generation rates and/or equations (the "ITE Trip Generation"), associated with the FDP or FDPA for the subject Block compared to those uses reflected for that Block in the Transportation Impact Analysis prepared by Wells & Associates, dated May 23, 2011, as revised December 2, 2011 ("TIA").

- D. Adjustments to GFA within and between certain Blocks as provided in Proffer 10 and Proffer 12, respectively.
- E. List of proposed uses as set forth in Proffer 13 and identified on the CDP and demonstration of how such uses meet the applicable "Use Limitations" of the PTC District.
- F. Architectural elements and build-to lines as provided in Proffer 18 and Proffer 19.
- G. Graphic depiction of, and any adjustments to, the activated streetscape elements as provided in Proffer 20.
- H. Proposed parking garage façade treatments as provided in Proffer 21.
- I. Building heights for Blocks B, C and D as provided in Proffer 22.
- J. Detailed landscape plans as provided in Proffer 35 with alternative planting width details, as may be necessary as provided in Proffer 36.
- K. Refinement of, and adjustments to, streetscape elements as provided in Proffer 38.
- L. Provision of a preliminary utility plan overlaid over the landscape plan, including the location of any utility vaults and maintenance points to stormwater management facilities as provided in Proffer 40.
- M. Submission of a "Streetscape Furnishing and Materials Plan" as provided in Proffer 42.
- N. Identification of specific proposed phased improvements in accordance with those generally set forth on the phasing-related exhibits provided on Sheets C8.1 through C8.4 of the CDP (collectively, the "Phasing Sheets").

- O. For on-site parks and active recreation facilities, depiction of special amenity features committed by Block as provided in Proffer 55.
- P. Bicycle parking and storage and bicycle lane dimensions as provided in Proffer 82 and Proffer 83, respectively.
- Q. Refinement of the number of parking spaces as provided in Proffer 84.
- R. Identification of specific stormwater management facilities as provided in Proffer 94.

8. Fire Marshal. The Applicant has coordinated the layouts depicted on the CDP and the concurrent FDPs filed for Blocks A, E and F with the Fire Marshal. Further changes to the CDP and FDPs shall be permitted in response to the review of site plans by the Fire Marshal, including adjustments to the streetscape and perimeter building areas as necessary to allow for required emergency vehicle access, provided such modifications are made in consultation with the Fairfax County Department of Planning and Zoning ("DPZ"), and the Fairfax County Department of Transportation ("FCDOT") and the Office of Community Revitalization ("OCR") and are in substantial conformance with the intent of the CDP, FDPs and these Proffers.

PERMITTED USES AND INTENSITY/DENSITY

9. Maximum Gross Floor Area ("GFA"). The maximum GFA permitted on the Subject Property is 2,575,685 square feet, inclusive of density bonuses, in a mix of land uses across Blocks A through F. Of this 2,575,685 square feet of GFA, 200,000 square feet of GFA shall be allocated to and reserved for Block F and the remaining 2,375,685 square feet shall be allocated and reserved for Blocks A through E, as shown on the CDP. The maximum GFA for office use on the Subject Property shall be 1,108,429, which includes the maximum 200,000 GFA for office use on Block F.

10. Adjustments to GFA in Blocks B, C and D. GFA may be adjusted among and within uses and buildings in Blocks B, C and D up to a maximum GFA equivalent of two floor plates, as listed on the CDP and depicted conceptually on the CDP, without requiring a PCA, CDPA or FDPA provided the maximum heights for each building are not exceeded, the minimum heights for these Blocks are maintained, the overall urban form and building types depicted on the CDP are maintained, and such adjustments are consistent with these Proffers. With respect to Blocks B, C and D, if the GFA approved with the FDP for a building is less than the maximum shown on the CDP for such building, or if the GFA approved with the site plan for such building is less than the maximum shown on the FDP, the excess GFA may be utilized in another building or buildings within Blocks B, C and D notwithstanding the notes on the CDP, provided the maximum heights for each building are not exceeded, the minimum heights and minimum total GFA for these Blocks, as described in the notes on the CDP, are maintained, the overall urban form and building types depicted on the CDP are maintained, such adjustments are consistent with these Proffers, and a tabulation identifying the GFA assigned to Block B, Block C and Block D is provided with each site plan for each Block. The GFA available for Blocks B,

C and D shall be established upon filing and approval of a site plan, based on when the site plan is filed and accepted for review by the County.

11. Residential Dwelling Units in Blocks A and E. Block A shall contain a minimum of 450 residential dwelling units and a maximum of 694 residential dwelling units. In the event that retail/service uses in Block A are converted to Live-Work Units, as described in Proffer 14, this maximum shall increase to 704 residential dwelling units. Block E shall contain a minimum of 430 residential dwelling units and a maximum of 480 residential dwelling units.

12. Adjustments to GFA within Block A. GFA may be shifted between the two residential buildings located within Block A provided the maximum height shown for each building is not exceeded, the overall urban form and building type as shown on the CDP and the approved FDP for Block A are maintained, and such adjustments are consistent with these Proffers. Within Block A, if at the time of site plan, the GFA approved for one residential building is less than the GFA shown on the approved FDP, the excess GFA may be utilized in the other residential building within Block A, provided the maximum heights for each building are not exceeded, the minimum heights and minimum total GFA for each building is maintained, the overall urban form and building types depicted on the CDP are maintained, and such adjustments are consistent with these Proffers.

13. Uses. The primary uses on the Subject Property shall be office, hotel and residential as identified on the CDP, with ancillary retail, services and other uses, including uses listed in the CDP notes and may include accessory uses and/or accessory service uses as defined in the Zoning Ordinance. "Retail/Services" as identified in the redevelopment tabulations on the CDP may include any non-residential use permitted by-right, by SE or by SP in the PTC District, exclusive of office, as limited by Sect. 6-505 "Use Limitations," including accessory uses and/or accessory service uses. Such retail/service uses may be provided generally within the ground floor (i.e., street level) of the proposed buildings; however such uses may also be provided within upper floors if shown on an FDP. The type, extent and location of all "Retail/Services" and other permitted uses shall be provided with the submission of the FDP for each Block.

14. Live-Work Units. The Applicant shall use good faith, commercially reasonable efforts to lease the spaces designated for non-residential uses in residential buildings. The occupancy of such areas with such a non-residential use shall not be a condition to issuance of Residential Use Permits ("RUPs") and/or Non-Residential Use Permits ("Non-RUPs") for other uses in any of the buildings on their respective Blocks or elsewhere on the Subject Property.

In the event that the Applicant is unsuccessful in leasing, at market rates and on market terms for non-residential tenants comparable to tenants in similar residential buildings and acceptable to the owner of the building, any of the non-residential GFA for the respective Blocks after a period of at least thirty-six (36) months after issuance of the first RUP for the building in which such non-residential GFA would be located, then such Applicant shall demonstrate its good faith, commercially reasonable marketing efforts to the Zoning Administrator who shall confirm that good faith, commercially reasonable efforts have been made. If the Zoning Administrator confirms that good faith, commercially reasonable efforts have been made,

thereafter such Applicant may utilize such spaces that have not been successfully leased as described above, for Live-Work Units, with such units counting as residential use as noted on the CDP. The retail or other non-residential component of such units may include any of the non-residential uses permitted in accordance with the notes on the CDP, except that the following non-residential uses shall not be permitted: tattoo parlors, pay day lenders, check cashing services, and adult-themed businesses that are obscene or indecent in nature. All Live-Work Units on the Subject Property shall be subject to all per residential dwelling unit contributions set forth in these Proffers, including transportation, workforce housing and school contributions, which contributions shall be paid prior to issuance of the applicable RUP and/or Non-RUP for the first user of each Live-Work Unit. A Live-Work Unit shall be defined as a combination of a private dwelling unit with retail or other non-residential use, with the dwelling unit occupied by the proprietor, storekeeper or employee and his/her family, of the non-residential use. These Live Work-Units shall be permitted without requiring approval of a PCA or CDPA; however, FDPA approval will be required prior to issuance of a RUP and/or Non-RUP for such Live-Work Units.

15. SE/SP Uses. Uses allowed by SE or SP in the PTC District may be authorized through the approval of a separate SE or SP application without the need for a PCA, CDPA, FDP, or FDPA, provided the use is in substantial conformance with the approved CDP and these Proffers.

16. Intensity/Density Reservation. All intensity/density attributable to land areas dedicated and/or conveyed at no cost to the Board or any other public entity pursuant to these Proffers (including, without limitation, the dedications referenced below) shall be subject to the provisions of Par. 4 of Sect. 2-308 of the Zoning Ordinance and is hereby reserved to the residue of the parcel of land from which it came.

17. Existing and Interim Structures and Uses. Existing structures and parking areas on Blocks A through F, as shown on the CDP, may be demolished or remain in use until such time as those portions of the Subject Property are redeveloped in accordance with this Rezoning, or as otherwise stated in these Proffers. Existing structures may not be modified or enlarged; however, minor structure additions may be approved by the Zoning Administrator pursuant to the provisions of Par. 4 of Sect. 16-403 of the Zoning Ordinance. Interior modifications to all existing structures shall be permitted. Any use that is permitted in the "C-3 Office District," including uses subject to SE and SP approval, shall be permitted on the Subject Property as an interim use subject to the Use Limitations in Sect. 4-304 of the Zoning Ordinance, including privately owned and operated commercial off-street parking and commuter parking, which shall be permitted upon notification to FCDOT and without PCA/CDPA/FDP/FDPA approval, as an interim use on the existing parking areas in Blocks A, B, C and/or D, at the sole discretion of the Applicant as to each respective Block and remain privately owned and operated at rates determined by the Applicant.

ARCHITECTURAL DESIGN

18. Proffered Architectural Quality and Elements. Buildings shall create a sense of identity and place at a human scale through the use of unifying elements such as materials, textures, color, window treatments, detailing, lighting and landscaping. Buildings shall be designed of high-quality architecture and building materials that are typically used on the exterior of Class A office, residential and hotel buildings of a similar quality as conceptually depicted on the CDP, with architectural details provided at the time of FDP approval for the respective Blocks. No exterior insulation and finish systems (EIFS) shall be used, unless specifically approved by Fairfax County (the "County") with an FDP for an individual building or Block. Each FDP shall, for the Block on which that FDP is filed, specify the building materials, architecture, and specific features designed to activate streetscapes, as further described below. Architectural plans, elevations, illustrations, materials and heights may be revised subsequent to CDP and FDP approval as a result of final architectural and engineering design, provided the quality of design remains in substantial conformance with that shown on the CDP and subsequent FDPs and set forth in these Proffers, as determined by the Fairfax County Department of Public Works and Environmental Services ("DPWES") in consultation with DPZ or OCR without the need for administrative approval.

19. Build-To Lines. Build-to-lines ("BTL") have been depicted on the CDP to create an urban, pedestrian-oriented environment where buildings are located close to the adjacent street and pedestrian/streetscape areas are located between the buildings and the streets. In general, building façades are intended to be configured where possible to provide a continuous street wall along this line, but modifications to either side of the BTL shall be permitted provided they are in general conformance with the CDP and are shown on an approved FDP. Awnings, building signage and other architectural canopies attached to the building frontage that project out from the BTLs shall provide adequate clearance for pedestrian movement and shall not conflict with street tree locations. At the time of FDP approval, possible locations along the street level for outdoor dining adjacent to cafes and restaurants shall be identified, as applicable, and appropriate building zones for such uses shall be identified, as applicable.

20. Activated Streetscape. Buildings A-1, A-2, B, C-1, C-2, D, E and F, but not the parking garages associated with such buildings, shall generally be designed and constructed with ground floors having a minimum floor to floor height of 12 feet along Westpark Drive and Westbranch Drive to accommodate potential non-residential uses designed to activate the streetscape. In addition, a hierarchy of activated streetscapes shall be provided as delineated and described conceptually on the "Pedestrian Hierarchy Plan" presented on the CDP. The specific activation elements to be utilized for each building shall be included on the FDP for each Block.

- A. Primary Pedestrian Corridors. "Primary Pedestrian Corridors" are intended to have the highest levels of pedestrian activity and interaction and typically have the widest streetscape and most animated building façades. Primary Pedestrian Corridors shall generally incorporate the

following elements, which can be adjusted at the time of FDP approval for each respective Block:

- i. Where the ground floors of buildings (not including the associated parking garages which are addressed below) incorporate non-residential uses, functioning entry doors into such uses shall be provided with a maximum separation of 75 feet, unless a greater separation is needed to accommodate larger tenant spaces, topographical features or as may be approved by the Zoning Administrator. A minimum of fifty percent (50%) of the area of the street front ground floor façades of such buildings shall be constructed with glazed windows and doors or other transparent, translucent materials.
- ii. Parking garages and loading/trash/service areas along the ground floor façades shall incorporate screening composed of architectural and/or landscaping treatments designed to mitigate views into the structures from street level, or the general façade detailing of the building above such areas may be continued to the ground plane.
- iii. Except for Block F, access to parking garages and loading/trash/service areas shall not be provided directly from Westpark Drive but may be provided from internal private streets that connect to Westpark Drive.
- iv. Loading/trash/service areas shall be screened, to the extent reasonably practicable, from public view through the use of roll down doors, recessed entryways and/or similar treatments.

B. Secondary Pedestrian Corridors. "Secondary Pedestrian Corridors" typically have significant pedestrian volumes and generally are used for pedestrian movement as opposed to pedestrian interaction. Some retail activity may occur in these corridors, but generally it will be neighborhood-serving. Residential and civic uses should have their entrances facing Secondary Pedestrian Corridors which generally have wide streetscapes and significant building façade animation in proximity to such entrances. Secondary Pedestrian Corridors generally shall incorporate the following elements, which can be adjusted at the time of FDP approval for each respective Block:

- i. Where the ground floors of buildings (not including the associated parking garages which are addressed below) incorporate non-residential uses, functioning entry doors into such uses shall be provided with a maximum separation of 75 feet, unless a greater separation is needed to accommodate larger tenant spaces,

topographical features or as may be approved by the Zoning Administrator. A minimum of thirty-five percent (35%) of the area of the street front ground floor façades of such buildings shall be constructed with glazed windows and doors or other transparent, translucent materials.

- ii. In portions of residential buildings (not including the associated parking garages which are addressed below) that do not incorporate non-residential uses on part or all of the ground floors, the building design of the primary façades shall incorporate, to the degree feasible, leasing offices, lobbies, recreational and amenity spaces on the ground floor with a minimum of thirty-five percent (35%) of the ground floor façade constructed with glazed windows and/or doors or other transparent, translucent materials, and/or incorporate entries into individual dwelling units from the street level. Residential units that have direct access to the streetscape from an individual unit shall use design features to provide interior privacy (such as having a ground floor elevation that is above the sidewalk grade or through the use of landscape buffers), except conditions where Live-Work Units may be permitted as provided in Proffer 14, combining work areas open to the public with residential areas.
- iii. Parking garages and loading/trash/service areas along the ground floor façades shall have screening composed of architectural and/or landscaping treatments designed to restrict views into the parking garages from street level or the general façade detailing of the building above may be continued to the ground plane.
- iv. If access to parking garages and loading/trash/service areas are provided along secondary pedestrian corridors then loading/trash/service areas shall be screened from public view through the use of roll down doors, recessed entryways and/or similar treatment.

C. Tertiary Pedestrian Corridors. "Tertiary Pedestrian Corridors" are intended to accommodate modest pedestrian activity-making connections to less intense areas or through alleys. Tertiary Pedestrian Corridors shall incorporate the following elements, which can be adjusted at the time of FDP approval for each Block:

- i. Where the ground floors of buildings (not including the associated parking garages which are addressed below) incorporate non-residential uses, a minimum of twenty percent (20%) of the area of the ground floor façades of such buildings shall be constructed

with glazed windows and doors or other transparent, translucent materials.

- ii. In residential buildings (not including the associated parking garages which are addressed below) that do not incorporate non-residential uses on part or all of the ground floors, efforts shall be made to incorporate recreational and amenity spaces on the ground floor with appropriate transparency and/or incorporate entries into individual dwelling units from the street level. Residential units that have direct access to the streetscape from an individual unit shall utilize design features to provide interior privacy (such as having a ground floor elevation that is above the sidewalk grade or through the use of landscape buffers).
- iii. Parking garages and loading/trash/service areas along the ground floor façades shall have screening composed of architectural and/or landscaping treatments designed to restrict views into the parking garages from street level, or the general façade detailing of the building above may be continued to the ground plane.
- iv. Access to parking garages and loading/trash/service areas may be provided along tertiary pedestrian corridors and from the adjacent private alleys. Loading/trash/service areas shall be screened from public view through the use of roll down doors, recessed entryways and/or similar treatment.

21. Parking Structure Façade Treatments. Parking garage façade design features shall be depicted on the FDPs for each Block and shall be designed to provide a pleasant and attractive experience along the streetscape in accordance with the following:

- A. At and above the street level, screening composed of architectural systems and/or landscaping designed to minimize views into the garage parking spaces from street level shall be applied.
- B. Where garage space is located beneath a tower element, in some instances, the general façade detailing of the tower above may be continued down to the top of the retail level storefront.
- C. Retail signage and/or architectural elements may be extended above the street level to provide a variety of storefront experiences, as may be permitted by the Zoning Ordinance and/or a future Comprehensive Sign Plan.
- D. Areas of above-grade parking decks may be wrapped by active uses at the ground floor to screen the garage areas from street view.

- E. Areas of above-grade garages located between towers shall also be treated architecturally and/or with landscaping.
- F. For purposes of this Proffer, materials to treat parking garage façades may include, but not be limited to: metal framing systems with inserted panels of wire mesh, metal, glass, natural vegetation or other materials; precast concrete or masonry elements; vegetative screening systems; glass stair towers and elevators, or other systems approved at the time of FDP.

22. Minimum and Maximum Building Heights. Building heights shall not exceed the maximum heights identified on the CDP for each Block as measured from the average grade. Final building and podium heights shall be determined at the time of site plan approval, and may be less than the maximum height shown on the CDP, provided that the buildings retain a compatible urban form to that shown on the CDP and that the average roofline of the primary building or buildings on each Block are not less than minimum heights shown in the CDP tabulations. For residential buildings, maximum building heights shall include penthouses and all rooftop structures. For non-residential buildings, structures that are excluded from the maximum height regulations as set forth in Sect. 2-506 of the Zoning Ordinance may be constructed to a height not to exceed thirty (30) feet above the roof level of the top floor of the building; all building penthouses and rooftop structures shall be integrated into the architecture of the building, and the height and extent of any rooftop penthouse shall be provided on the FDP for each respective Block and/or buildings.

23. Rooftop Telecommunications Equipment and Mechanical Units. Telecommunications equipment, mechanical units and all appurtenant facilities may be placed on the rooftop of any building. Any such facilities must comply with the applicable requirements of the Zoning Ordinance and be screened and/or set back sufficiently from the perimeter of the roof and penthouse such that they are generally not visible from the surrounding streets at street level when viewed from the property line of the Subject Property. Screening measures may, without limitation (i) include screening with architectural features and/or landscaping compatible with the building façade architecture, (ii) include the facilities as part of the architecture of the buildings, (iii) utilize compatible colors, or (iv) employ telecommunication screening material and flush-mounted antennas. Telecommunications equipment also may be architecturally integrated onto the façades of the building where necessary to ensure on-street and/or open space coverage. Rooftop amenities such as amenity terraces, landscaping or recreation courts may also be used to screen rooftop telecommunications equipment and mechanical units.

24. Trellises and Arbors. As shown conceptually on the CDP, the main trellis structures may be located along Westpark Drive and may consist of, but shall not be limited to, materials such as steel or aluminum, concrete or similar materials/systems. The height of the main trellis structures shall range from approximately 12 to 22 feet and generally be compatible with the height of the retail podium. As determined by the Applicant, additional trellis-type structures may be located throughout the Subject Property as architectural features. Arbor structures which incorporate natural vegetation as a shading device may be located on the top decks of parking garages in Blocks B, C, D and F (in lieu of interior parking lot landscaping if

approved by the Board) and, as determined by the Applicant, may be located elsewhere on the Subject Property as architectural design features and/or shading devices. Such arbors shall consist of, but shall not be limited to, materials such as steel or aluminum, wood, concrete or other similar materials/systems.

GREEN BUILDING AND SUSTAINABLE ENERGY PRACTICES

25. LEED Equivalents and Conflicts. All references in these Proffers to the U.S. Green Building Council ("USGBC") shall also and equally apply to such other green building certifying entities selected by the Applicant as to each respective Block in connection with redevelopment of the buildings on each Block, provided such alternative certifying entity is acceptable to the County. All references in these Proffers to a Leadership in Energy and Environmental Design ("LEED") rating system shall also and equally apply to such other LEED or similar rating system determined to be applicable by the USGBC or such alternative certifying entity. In the event a LEED or LEED equivalent requirement (i.e. prerequisite) precludes compliance with other applicable building code or other legal requirements, as determined by DPWES, construction of the buildings on each respective Block may, at the option of the party constructing such building, comply with such other applicable building code or other legal requirement, and in such case, shall not be required to comply with the conflicting LEED or LEED equivalent requirement.

26. Block F Office Green Building Practices. With Block F, the Applicant shall include a LEED accredited professional ("LEED-AP") as a member of the design team for Block F. The LEED-AP shall work with the design team for Block F to incorporate design elements under the USGBC's LEED Core and Shell ("LEED-CS") rating system into the office building to be constructed on Block F. At the time of site plan submission for Block F, the Applicant shall provide documentation to the Environmental and Development Review Branch ("EDRB") of DPZ, demonstrating compliance with the commitment to engage such a professional. The Applicant has registered the office building to be constructed on Block F with the USGBC under the 2009 version of the LEED-CS rating system. In the event the USGBC establishes a newer version of the LEED-CS rating system, the Applicant shall have the option to: 1) proceed under the 2009 version of the LEED-CS rating system, so long as the USGBC continues to administer such version, or 2) proceed under the newer version of the LEED-CS rating system. The Applicant will include, as part of the site plan submission and building plan submission for the office building to be constructed on Block F, a list of specific credits within the applicable LEED-CS rating system that it anticipates attaining for the office building on Block F. The LEED-AP, who is also a professional engineer or licensed architect, will provide statements at both the time of site plan review and the time of building plan review confirming that the items on the list will meet at least the minimum number of credits necessary to attain LEED Silver certification for the office building to be constructed on Block F. In addition, prior to site plan approval for Block F, the Applicant will designate the Chief of the EDRB as a team member in the USGBC's LEED online system with respect to the office building on Block F. This team member will have privileges to review the project status and monitor the progress of all documents submitted by the project team, but will not be assigned responsibility for any LEED

credits and will not be provided with the authority to modify any documentation or paperwork. Prior to building plan approval for the office building to be constructed on Block F, the Applicant shall provide documentation to EDRB demonstrating that the office building on Block F has applied for LEED Gold pre-certification under the applicable LEED-CS program. Prior to release of the bond for the office building on Block F, the Applicant shall provide documentation to the EDRB demonstrating the status of attainment of LEED certification or a higher level of certification from the USGBC for the office building on Block F. If the Applicant is unable to provide the precertification documentation prior to building plan approval, but does anticipate receiving the documentation prior to the attainment of LEED certification, it may, prior to the issuance of the building permit, post an escrow identical to the one described in Proffer 27 below. This escrow will be released upon the Applicant's submission of documentation from the USGBC to the EDRB demonstrating that the office building on Block F is anticipated to attain a sufficient number of credits to attain LEED Gold certification.

27. Block F Alternative Green Building Escrow. As an alternative to the actions outlined in Proffer 26 above, or if the USGBC's pre-certification documentation indicates that the office building to be constructed on Block F is not anticipated to attain LEED Gold certification, the Applicant shall execute a separate agreement and post a "Green Building Escrow" in the form of cash or a letter of credit from a financial institution acceptable to DPWES as defined in the Fairfax County Public Facilities Manual ("PFM") or a surety bond from a financial institution licensed to do business in Virginia in the amount of \$2.00 per gross square foot of GFA for the office building to be constructed on Block F. The Green Building Escrow will be in addition to, and separate from, other bond requirements and will be released upon demonstration of the attainment of LEED Silver certification, or a higher level of certification, by the USGBC under the applicable version of the LEED-CS rating system. The provision to the EDRB of documentation from the USGBC that the office building on Block F has attained LEED Silver certification will be sufficient to satisfy this commitment. The Green Building Escrow shall be released in accordance with the following: 1) if the Applicant provides to the EDRB, within three years of the issuance of the first tenant Non-RUP for the office building on Block F, documentation demonstrating that LEED Silver certification for the office building on Block F has been attained, the entirety of the Green Building Escrow shall be released to the Applicant who posted the Green Building Escrow, 2) if the Applicant provides to the EDRB, within three years of the issuance of the first tenant Non-RUP for the office building on Block F, documentation demonstrating that LEED Silver certification for such office building has not been attained but that such office building has been determined by the USGBC to fall within three points of attainment of LEED Silver certification, 50% of the Green Building Escrow shall be released to the Applicant who posted the Green Building Escrow; the other 50% shall be released to Fairfax County and will be posted to a fund within the County budget supporting the implementation of County environmental initiatives, and 3) if the Applicant fails to provide to the EDRB, within three years of the issuance of the first tenant Non-RUP for the office building on Block F, documentation demonstrating the attainment of LEED Silver certification or demonstrating that the office building on Block F is within three points of LEED Silver certification, the entirety of the Green Building Escrow shall be released to Fairfax County and will be posted to a fund within the County budget supporting the implementation of County

environmental initiatives. If the Applicant provides evidence that such LEED-CS certification has been delayed through no fault of its own or of its contractors or subcontractors, the time frame may be extended as determined appropriate by the Zoning Administrator, and no release of escrowed funds shall be made to the Applicant or to the County during this extended time frame.

28. Blocks B, C and D Green Building Practices. A LEED-AP professional shall be included as a member of the design team for Blocks B, C and D, respectively. The LEED-AP shall work with the design teams for Blocks B, C and D to incorporate appropriate LEED design elements for each building, under a version of the LEED rating system available at the time of registration, into the office and hotel buildings to be constructed on Blocks B, C and D. At the time of site plan submission, documentation shall be provided to the EDRB demonstrating compliance with the commitment to engage such a professional. In addition, prior to site plan approval for their respective Blocks, the Chief of the EDRB shall be designated as a team member in the USGBC's LEED online system for each proposed office and hotel building. This team member will have privileges to review the project status and monitor the progress of all documents submitted by the project team, but will not be assigned responsibility for any LEED credits and will not be provided with the authority to modify any documentation or paperwork.

As part of the building plan submission for each office and hotel building to be constructed on their respective Blocks, a list of specific credits within a version of the LEED rating system available at the time of registration (or such other rating system as may be applicable under Proffer 25) that is anticipated to be attained for such office and hotel building shall be included. The LEED-AP who is a professional engineer or licensed architect will provide certification statements at the time of site plan review and building plan review, confirming that the items on the list will meet at least the minimum number of credits necessary to attain LEED Silver certification for the subject office and hotel building. Each building on their respective Blocks may be pursued separately, and certification pursuant to this Proffer or the alternative provided below may be pursued on a building-by-building basis.

Prior to final building plan approval, documentation shall be submitted to the EDRB for their respective Blocks demonstrating that the subject office or hotel building has applied for at least LEED Gold pre-certification under LEED-CS or the building is anticipated to attain a sufficient number of design-related credits that, along with the anticipated construction-related credits, will be sufficient to attain LEED Gold certification under LEED-New Construction ("LEED-NC"). Prior to release of the bond for the subject office or hotel building, documentation shall be provided to the EDRB for their respective Blocks demonstrating the status of attainment of LEED Gold or a higher level of certification from the USGBC for the office or hotel buildings on their respective Blocks. If either the pre-certification or design phase review documentation cannot be provided prior to building plan approval, but it is anticipated that the documentation will be received prior to the attainment of LEED certification, then prior to the issuance of the building permit, an escrow identical to the one described in Proffer 29 below may be posted. This escrow will be released upon the submission of documentation to the EDRB from the USGBC demonstrating that the office or hotel building is anticipated to either

attain a sufficient number of credits to attain LEED Gold pre-certification or the building is anticipated to attain a sufficient number of design-related credits that, along with the anticipated construction-related credits, will be sufficient to attain LEED Gold certification under LEED-NC.

29. Blocks B, C and D Alternative Green Building Escrow. As an alternative to the actions outlined in Proffer 28 above, or if the USGBC's pre-certification or design phase review indicates that the office or hotel building to be constructed on Blocks B, C and D is not anticipated to attain LEED Gold certification, then, a separate agreement shall be executed for that office or hotel building, a "Green Building Escrow" in the form of cash or a letter of credit from a financial institution acceptable to DPWES as defined in the PFM or a surety bond from a financial institution licensed to do business in Virginia, in the amount of \$2.00 per gross square foot of GFA shall be posted for that office or hotel building. This Green Building Escrow will be in addition to, and separate from, other bond or escrow requirements for the subject building and shall be released upon demonstration of attainment of certification by the USGBC under any available version at the time of such Applicant's registration in a LEED rating system. The provision to the EDRB of documentation from the USGBC that each office or hotel building has attained LEED Silver or higher certification will be sufficient to satisfy this commitment. The Green Building Escrow shall be released in accordance with the following: 1) if the Applicant provides to the EDRB, within three years of the issuance of the first tenant Non-RUP for each office or hotel building, documentation demonstrating that LEED Silver certification for such building has been attained, the entirety of the Green Building Escrow shall be released to the Applicant who posted the Green Building Escrow, 2) if the Applicant provides to the EDRB, within three years of the issuance of the first tenant Non-RUP for such building, documentation demonstrating that LEED Silver certification for such building has not been attained but that such building has been determined by the USGBC to fall within three points of attainment of LEED Silver certification, 50% of the Green Building Escrow shall be released to the Applicant who posted the Green Building Escrow; the other 50% shall be released to Fairfax County and will be posted to a fund within the County budget supporting the implementation of County environmental initiatives, and 3) if the Applicant fails to provide to the EDRB, within three years of the issuance of the first tenant Non-RUP for such building, documentation demonstrating the attainment of LEED Silver certification or demonstrating that such building is within three points of LEED Silver certification, the entirety of the Green Building Escrow shall be released to Fairfax County and will be posted to a fund within the County budget supporting the implementation of County environmental initiatives. If evidence is provided that such LEED Silver or higher certification has been delayed through no fault of the Applicant, the time frame may be extended as determined appropriate by the Zoning Administrator, and no release of escrowed funds shall be made to the Applicant or to the County during this extended time frame.

30. Blocks A and E Residential Green Building Practices. A LEED-AP professional shall be included as a member of the design team for Blocks A and E, respectively. The LEED-AP shall work with the design team to incorporate design elements under a version of the LEED-NC rating system available at the time of such Applicant's registration into the residential buildings to be constructed on Blocks A and E. At the time of site plan submission,

documentation shall be provided to the EDRB demonstrating compliance with the commitment to engage such a professional. In addition, prior to site plan approval for these respective Blocks, the Chief of the EDRB shall be designated as a team member in the USGBC's LEED online system with respect to such building. This team member will have privileges to review the project status and monitor the progress of all LEED-related documents submitted to the Green Building Certification Institute by the project team, but will not be assigned responsibility for any LEED credits and will not be provided with the authority to modify any documentation or paperwork.

As part of site plan and building plan submission for each residential building to be constructed on their respective Blocks, a list of specific credits within a version of the LEED-NC rating system available at the time of registration (or such other rating system as may be applicable pursuant to Proffer 25), which is anticipated to be attained for such residential building shall be provided. Except as otherwise provided below as an alternative, the LEED-AP, who is a professional engineer or licensed architect, will provide certification statements at the time of site plan review and building plan review, confirming that the items on the list will meet at least the minimum number of credits necessary to attain LEED-NC certification for the subject residential building. Each building on the respective Blocks may be registered separately and certification may be pursued pursuant to this Proffer or the alternative provided below on a building-by-building basis.

Prior to the building plan approval, a separate agreement shall be executed for each building, and a "Green Building Escrow," in the form of cash or a letter of credit from a financial institution acceptable to DPWES as defined in the PFM or a surety bond from a financial institution licensed to do business in Virginia shall be posted in the amount of \$2.00 per square foot of GFA for the building. This Green Building Escrow will be in addition to, and separate from, other bond or escrow requirements and shall be released upon demonstration of attainment of LEED-NC certification, by the USGBC under the project's registered version of the LEED-NC rating system or other LEED rating system determined by the USGBC to be applicable to each building. The provision to the EDRB of documentation from the USGBC that each residential building has attained LEED-NC certification shall be sufficient to satisfy this commitment. At the time LEED-NC certification is demonstrated to the Environmental Review Branch, the escrowed funds shall be released and returned to the Applicant who posted such Green Building Escrow, as applicable.

If the Environmental Review Branch receives, within three (3) years of issuance of the final RUP for the subject residential building, documentation demonstrating that LEED-NC certification for such building has not been attained but that such building has been determined by the USGBC to fall within three (3) points of attainment of LEED-NC certification, 50% of the Green Building Escrow shall be released and returned to the Applicant who posted such Green Building Escrow, as applicable, and the other 50% shall be released to the County and will be posted to a fund within the County budget supporting implementation of County environmental initiatives.

If, within three (3) years of issuance of the final RUP for such building, documentation fails to be provided to the EDRB demonstrating the attainment of LEED-NC certification or demonstrating that the building has fallen short of LEED-NC certification by more than three (3) points, the entirety of the Green Building Escrow for that building shall be released to the County and will be posted to a fund within the County budget supporting the implementation of County environmental initiatives.

If documentation fails to be provided from the USGBC demonstrating, to the satisfaction of the Environmental Review Branch, that USGBC completion of the review of the LEED-NC certification application has been delayed through no fault of the Applicant, the proffered time frame may be extended as determined appropriate by the Zoning Administrator, and no release of escrowed funds shall be made during the extension.

31. Blocks A and E Residential Green Building Alternative. As an alternative to the actions outlined in Proffer 30 above, a certification level higher than LEED certification may be pursued, in which case a LEED-AP will provide certification statements at the time of site plan and building plan review confirming that the items on the list of specific credits will meet at least the minimum number of credits necessary to attain LEED-NC Silver certification.

Prior to building plan approval for the building to be constructed, documentation shall be submitted to the EDRB regarding the USGBC's preliminary review of design-oriented credits in the LEED program. This documentation will demonstrate that the building is anticipated to attain a sufficient number of design-related credits that, along with the anticipated construction-related credits, will be sufficient to attain LEED-NC Silver certification. Under this alternative, a "Green Building Escrow" shall not be required unless the above referenced documentation that the building is anticipated to attain LEED-NC Silver certification fails to be provided.

32. Additional Sustainable Energy Practices. The minimum energy performance criteria may be satisfied by the residential and office buildings through meeting their respective LEED requirements, but LEED requirements may be satisfied on a Block with any mix of credits. To further promote efficient, renewable and sustainable energy practices, the following shall be provided by the Applicant for each of the buildings located within a Block:

- A. Electric Vehicle Charging Infrastructure. In each Block, a minimum of one (1) recharging station that serves two (2) parking spaces for electric cars and conduit to facilitate additional future recharging stations shall be provided.
- B. Shared Energy. For any Site Plan that includes more than one building, provide an assessment of the potential, within the area subject to the Site Plan, of shared energy systems, including but not limited to combined heat and power ("CHP") (co-generation), micro-CHP, distributed energy resources, and district heating and/or cooling, and, if a shared energy

strategy will not be pursued, provide a narrative discussion regarding the reason(s) for this outcome.

- C. Energy and Water Data. To the extent there are master electric, gas and water meters for entire buildings, upon request by the County, aggregated non-proprietary energy and water consumption data, as practicable, shall be provided to the County for the buildings within each respective Block as may be applicable.

URBAN SITE DESIGN AND LANDSCAPING

33. Site Design. The Subject Property shall be developed in substantial conformance with the concepts presented on the "Block Illustrative Plans," "Typical Street Sections," and "Illustrative Streetscape Elements" of the CDP, which present concepts regarding streetscapes, urban parks, urban plazas, terraces, lawns, courtyards and private amenity areas for the Subject Property. At the time of FDP approval for any portion of the Subject Property, these concepts may be modified and additional details provided, so long as they are in conformance with the CDP and with the understanding that such modifications shall be reviewed against the Tysons Urban Design Guidelines. Site design may be further modified during site plan review for each respective Block to allow for final engineering and design considerations, including, but not limited to, final utility locations, low impact development ("LID") facilities, sight distance requirements and other applicable design requirements, provided that such modifications are in substantial conformance with the FDP.

34. Landscaping. The CDP includes conceptual "Illustrative Landscape Plans" consisting of overall plans and concepts for each Block. Actual types, quantities and species of vegetation shall be determined pursuant to more detailed landscape plans submitted at the time of the first and all subsequent FDPs and site plans for each respective Block. Landscaping may be modified during site plan review for each respective Block to allow for final engineering and design considerations, including, but not limited to, final utility locations, LID facilities, sight distance requirements and other applicable requirements, provided that such modifications are in substantial conformance with the FDP.

35. Detailed Landscape Plans. As part of the site plan submission for each building on the Subject Property, a detailed landscape plan shall be submitted for the corresponding Block to the Urban Forest Management Division (the "UFMD") of DPWES for review and approval. The planting and landscaping materials shown on each detailed landscaping plan shall be in substantial conformance with those shown on the approved FDP, and shall include, among other things, irrigation information, design details for tree wells and other similar planting areas on structures and along streets, the composition of planting materials, methods for providing suspended pavement over tree root zones to prevent soil compaction, and methods for ensuring the viability of plantings on structures. Arbors (i.e., trellises) may be provided in lieu of interior parking lot landscaping requirements, subject to Board approval of a modification of relevant Zoning Ordinance and PFM requirements.

36. Alternative Planting Width Details. Street tree species and planting sites are depicted on the CDP but remain subject to such revisions as may be approved by the UFMD at the time of FDP and site plan approval. Where minimum planting widths of eight (8) feet cannot be provided, alternative measures either as identified in the "Tysons Urban Design Guidelines" (endorsed by the Board on January 25, 2012) (the "Tysons Urban Design Guidelines") or as approved by the UFMD, shall be used to satisfy the following specifications for all planting sites:

- A. A minimum of 4 feet open surface width and 16 square feet open surface area for Category III and Category IV trees (as defined in Table 12.19 of the PFM), with the tree located in the center of such open area.
- B. A minimum rooting area of 8 feet wide (may be achieved with techniques to provide un-compacted soil below hardscape areas within the Pedestrian Realm) (as defined in these Proffers), with no barrier to root growth within four feet of the base of the tree.
- C. Soil volume for Category III and Category IV trees (as defined in Table 12.19 of the PFM) shall be 700 cubic feet per tree for single trees, but may be reduced to a minimum of 400 cubic feet where paving above root zones is necessary to accommodate pedestrian traffic or where utility locations preclude greater soil volume. For two trees planted in a contiguous planting area, a total soil volume of at least 600 cubic feet per tree shall be provided. For three or more trees planted in a contiguous area, the soil volume shall equal at least 500 cubic feet per tree. A contiguous area shall be any area that provides root access and soil conditions favorable for root growth throughout the entire area. Minimum soil volumes of 700 cubic feet will be achieved in areas of lower pedestrian volume and where pavement is not required over tree rooting zones.
- D. Soil specifications in planting sites shall be provided in the planting notes to be included in all site plans filed subsequent to the approval of this Rezoning.
- E. Tree zones shall be installed with a fully automatic drip irrigation system.
- F. Tree grates shall only be required if necessary to maintain a certain sidewalk dimension.

37. Publicly-Accessible Park and Open Space Areas. Provision of publicly-accessible park and open space areas shall be in substantial conformance with the concepts, locations and minimum acreages depicted on the CDP and as further defined in these Proffers and may be adjusted at the time of FDP and site plan approval to allow for final engineering and design considerations.

STREETSCAPES

38. Streetscape Elements. Streetscaping shall be installed throughout the Subject Property in substantial conformance with the "Block Illustrative Plans" and "Typical Street Sections" on the CDP, with more refined streetscape plans provided for each Block at the time of FDP. Except as shown conceptually on the CDP with respect to certain private access or service-type streets, streetscape elements shall generally include: a landscape amenity panel located immediately behind the face of curb; a pedestrian sidewalk adjacent to the landscape amenity panel; and a building zone between the pedestrian sidewalk and the face of the building designed to allow access to the building and/or additional landscaping adjacent to residential uses, or storefront browsing, outdoor display, outdoor dining, and similar uses adjacent to Retail/Service uses. Outdoor display and outdoor dining areas shall not be permitted within pedestrian sidewalk areas. Streetscaping elements may be adjusted at the time of FDP and during site plan review, and individual Blocks may have slight variations, provided the quality of the streetscape is consistent with that shown on the CDP. Tree planting sites are set forth conceptually on the CDP and may be revised at the time of FDP or site plan approval, subject to UFMD approval.

39. Non-Invasive Plant Materials. Invasive species, as defined in the PFM, shall not be used within the streetscape and landscaped open space areas.

40. Utility Locations. To the extent feasible and in accordance with the Transportation Design Standards, proposed future utilities, including, but not limited to water, sanitary sewer, storm sewer, electricity, gas and cable television lines, may be relocated or installed within the street network, or placed in locations that minimize conflicts with the landscaped open space areas and streetscape elements shown on the CDP and/or FDPs submitted subsequent to approval of this Rezoning. If there is no other cost-effective option as determined by each Applicant for its respective Block, in consultation with DPZ, utilities may be placed within open space or streetscape areas provided that the long-term health of trees and other plantings is ensured by the provision of sufficient soil volume as shown on the CDP and subsequent FDPs, as determined by the UFMD and as set forth above. A preliminary utility plan shall be overlaid on the landscape plan included with each FDP or FDPA filed subsequent to approval of this Rezoning and shall include the location of any utility vaults and maintenance points to stormwater management facilities. Adjustments to the type and location of plantings may be made to avoid conflicts with utilities or for other site engineering considerations. Maintenance access points to stormwater management facilities and utility vaults beneath the streetscape shall be located outside the clear pedestrian walkway zone of the streetscape, where feasible. If the Dominion Virginia Power vaults must be located in the walkway zone, they shall be designed as a lift out panel with the same paving materials as the walkway (subject to the Americans with Disabilities Act ("ADA") requirements), be flush with the walkway, and meet ADA accessibility requirements.

41. Sight Distance and Utility Considerations. If VDOT determines at the time of site plan approval that street tree locations conflict with either the sight distance requirements set

forth in the Transportation Design Standards or with utility requirements, and good faith efforts have been made to gain necessary approval of such conflicting trees by making minor adjustments to their locations or by removing their lower branches but VDOT, the County or the applicable utility company does not approve such street tree locations, then such tree(s) may be deleted and replaced at an alternative location on the subject Block, so long as the alternative location is coordinated with the UFMD.

42. Streetscape Furnishings and Materials and Lighting. High quality and unified streetscape materials shall be provided within the public realm for each Block in substantial conformance with the CDP and may include, but not be limited to, decorative concrete, unit pavers, seat walls, tree space edging, lighting, traffic signal poles, benches, trash receptacles and other hardscape elements. A "Streetscape Furnishing and Materials Plan" in substantial conformance with that shown on the CDP shall be submitted in conjunction with all FDPs submitted subsequent to approval of this Rezoning. These plans shall include general product information and approximate locations of furnishings and materials to be located in the streetscape between the building face and the curb, and in other public realm open spaces. Although minor variations may occur within Blocks, materials, furnishings, and lighting along public streets shall generally be compatible in Blocks A through F and consistent with any streetscape design approved by the Tysons Partnership, but shall not be subject to approval by the Tysons Partnership. All streetscape lighting shall be energy efficient and generally consistent with the Tysons Urban Design Guidelines. On-site, outdoor and parking garage lighting shall not exceed the limitations in the Outdoor Lighting Standards of Sect. 14-900 of the Zoning Ordinance, as may be amended. The same or similar street lights shall be used consistently throughout the development along public streets and be selected from those listed in the Tysons Urban Design Guidelines, or other lights as may be approved by OCR. All parking lot and building-mounted security lighting shall utilize full cut off fixtures. Recessed lighting shall be directionally shielded to mitigate the impact on adjacent properties.

43. Parking Structure Lighting. The Applicant shall utilize full cut-off, low-intensity or recessed lighting directionally shielded to mitigate the impact on adjacent residences for any lighting along the perimeter of an above-ground parking garage not constructed of solid walls. Such lighting shall comply with the requirements of Article 14 of the Zoning Ordinance.

44. Construction Lighting. During construction, the Applicant shall attempt to reduce glare from OSHA, VOSHA, VUSBA and local ordinance required superstructure lighting to the extent possible without violating aforementioned laws, regulations or policies.

45. Signage and Wayfinding. Signage for the Subject Property shall be provided in accordance with the requirements of Article 12 of the Zoning Ordinance or a Comprehensive Sign Plan ("CSP") may be sought for one or more Blocks of Arbor Row. The placement of traffic control signage on public streets shall be coordinated with, and subject to, VDOT review and approval. Wayfinding signage and elements shall be coordinated with the Tysons Partnership to facilitate a consistent wayfinding and signage system throughout the applicable planning district, but shall not be subject to approval by the Tysons Partnership. Wayfinding

signage shall provide direction to locations of prominent attractions, parks, cultural arts destinations, and other public amenities.

46. Maintenance of the Pedestrian Realm. Elements to be maintained within the pedestrian realm include all publicly-owned areas and all privately-owned spaces (with or without public access easements) that are between the curb and the building façade (the "Pedestrian Realm"). The Administrative Group (the "AG," as defined in Proffer 77) shall be responsible on behalf of the Applicant for obtaining all required VDOT permits related to the Pedestrian Realm, for maintaining the Pedestrian Realm in good repair and in compliance with the ADA, and for replacing in kind, as needed, all Pedestrian Realm elements located within or abutting public street right-of-way. For any publicly-owned portions of the Pedestrian Realm, the AG shall enter into the appropriate agreement, in a form approved by the Office of the County Attorney, with the County (or other applicable public entity) to permit the AG to perform such maintenance. Neither the Applicant nor the AG shall be required to repair or restore any elements of the Pedestrian Realm within publicly-owned areas that are damaged by public employees, contractors, or permittees that are not acting under the direct authority of the Applicant or the AG. An alternative maintenance agreement, such as a Business Improvement District, may be entered into upon written agreement of both the County and the Applicant and/or AG without the requirement for a PCA. Maintenance commitments within the Pedestrian Realm shall include but are not limited to:

- A. All plantings including trees, shrubs, perennials, and annuals;
- B. All associated irrigation elements;
- C. All hard surfaces, including but not limited to paving and retaining walls;
- D. All streetscape furnishings including benches and bike racks;
- E. All lighting fixtures;
- F. All special drainage features, such as LID facilities;
- G. Snow removal, including from on-street parking spaces on private access drives;
- H. Trash recycling and litter removal;
- I. Leaf removal;
- J. Any sign posts, traffic signal poles, pedestrian signal poles, mast arms, signal heads and control boxes that are not VDOT standard devices; and
- K. All urban park amenities in the development including horticultural care, maintenance of all water features, irrigation, lighting, furnishings, paving, recreation courts and features, and art.

As determined at the time of FDP approval, where the final streetscape design cannot be fully implemented during certain phases of development, the Applicant shall provide interim streetscape improvements as described in these Proffers.

47. Ownership of the Pedestrian Realm. Portions of the Pedestrian Realm will be dedicated in fee simple to the County of Fairfax (or equivalent government body or agency), as shown on the CDP, subject to the following conditions:

- A. The County and/or VDOT shall permit all stormwater and other facilities to be constructed and maintained as shown on the CDP, subject to the Applicant accepting maintenance responsibilities for such facilities;
- B. The County and/or VDOT shall permit the Applicant to use security-related features, including, but not limited to, bollards, that are constructed within streetscape areas and shown on an approved FDP;
- C. The Applicant through the AG shall continue to maintain the Pedestrian Realm facilities as described in these Proffers; and
- D. Dedication of any portions of the Pedestrian Realm intended to be publicly-owned shall occur concurrently with dedication of the adjacent roadway.

48. Public Access for the Pedestrian Realm. For areas within the Pedestrian Realm that are privately owned, the Applicant shall dedicate public access easements, in a form approved by the Office of the County Attorney. In areas where a portion of the Pedestrian Realm is within the public right-of-way, a public access easement shall be placed across the privately-owned area identified as the building zone. In areas where the Pedestrian Realm is entirely under private ownership, the public access easement shall be for the areas of the landscape amenity panel and the sidewalk zone.

49. Phased Conditions and Standards. Redevelopment of the individual Blocks may result in various phased conditions associated with the Subject Property. As part of the FDP review for each Block, specific phased conditions shall be identified, generally as set forth in these Proffers and on the Phasing Sheets for the subject Block and the area immediately abutting it and shall ensure such conditions provide safe and reasonable pedestrian connections and vehicular access/circulation. Phased conditions shall comply with the following general standards:

- A. Application of a temporary screening system (which may be removable) to the façades of above grade garages in Blocks B, C and D that will be interior when later phases are complete, but that are exposed at phase lines for more than a one-year period. This screening system shall be applied to all levels above grade and shall be composed of an architecturally designed system that may reflect basic architectural lines of the permanent

façades and/or vegetation or other techniques, and shall partially obscure the garage view from outside the garage until the next phase is constructed. As may be appropriate, the specific temporary screening system to be utilized for each building shall be determined at the time of FDP approval and depicted on the FDP. Other alternate temporary garage screening and the use of banners and/or temporary art works as a part of the screening system may be approved at the time of FDP approval;

- B. Grading and seeding of areas on the Subject Property where existing improvements are removed to accommodate a portion of the development shown for the subject Block, not used for construction staging and not scheduled to commence construction within 12 months; and
- C. Provision of attractive temporary construction fencing, which may include public art, signage or way-finding elements. Signage shall comply with Article 12 of the Zoning Ordinance or alternatively in accordance with an approved Comprehensive Sign Plan.

OFF-SITE PUBLIC FACILITIES AND ATHLETIC FIELDS

50. Public Facilities and Athletic Fields Contributions. To address the Comprehensive Plan's recommendations regarding the provision of public facilities and athletic fields in Tysons Corner, the following shall be provided:

- A. Dedication of Off-Site Parcel. The approximately eight (8) acres of land identified as Fairfax County Tax Map Parcel 29-2-((15))-B2 (the "Park/School/Athletic Fields Parcel") shall be dedicated, in fee simple, to the Board for public park, athletic fields, public elementary school and/or similar or related public uses. This dedication shall occur within one hundred twenty (120) days after completion of construction of the improvements described in subparagraphs B., C. and D. below, as evidenced by the release of the bonds posted with approval of the Athletic Field Site Plan described in Proffer 51.
- B. Athletic Fields. Prior to June 30, 2015 as described in Proffer 51, or such later date as may be determined by the Zoning Administrator pursuant to Proffer 108, the following two athletic fields and related support facilities (collectively, the "Athletic Fields Improvements") shall be constructed on the Park/School/Athletic Fields Parcel generally as shown on the plan entitled "Playing Fields and Public Facilities Exhibit," dated September 10, 2012 and attached to these Proffers as **Exhibit A**:
 - i. Installation of one synthetic turf, multi-purpose athletic field of approximately 390 feet by 220 feet ("Field One"), which includes fifteen (15) feet wide overruns, two player benches (no bleachers),

field striping, two goals, and field lighting (which shall qualify for a minimum of one (1) athletic field credit). Field construction and lighting shall be consistent with Fairfax County Park Authority ("FCPA") standards at the time of construction. Field design and location shall be determined in coordination with the FCPA Synthetic Turf Fields Manager.

- ii. Installation of one synthetic turf, multi-purpose athletic field of approximately 180 feet by 255 feet ("Field Two"), which includes fifteen (15) feet wide overruns and two player benches (no bleachers), field striping, two goals, and field lighting (which shall qualify for a minimum of one-half ($\frac{1}{2}$) athletic field credit). Field construction and lighting shall be consistent with FCPA standards at the time of construction. Field design and location shall be determined in coordination with the FCPA Synthetic Turf Fields Manager. It is anticipated that Field Two may be removed in the future by the County and/or the Fairfax County School Board (the "School Board") at such time as this portion of the Park/School/Athletic Fields Parcel may be needed for school purposes.
- iii. The installation and construction of Field One and Field Two will qualify for a minimum total of one and one-half ($1\frac{1}{2}$) athletic field credits as defined in the Tysons Urban Center Plan. One-half ($\frac{1}{2}$) athletic field credit shall meet the approximate one-half ($\frac{1}{2}$) athletic field requirement anticipated for this Rezoning. The remaining one (1) athletic field credit shall be available to the Applicant to meet the partial anticipated athletic field credit requirement for the property included in pending rezoning applications RZ 2011-PR-010 and RZ 2011-PR-011. The support facilities identified on **Exhibit A**, which include the picnic shelter and seating facilities, a paved parking area for approximately 46 cars, and an internal trail system, shall be installed with construction of the athletic fields. An eight (8) foot wide concrete trail, with associated street tree landscaping, also shall be installed along the Jones Branch Drive frontage of the Park/School/Athletic Fields Parcel with construction of the athletic fields. These frontage improvements shall not include any road widening, on-street parking, streetscape or other road frontage improvements along Jones Branch Drive. The improvements to the Park/School/Athletic Fields Parcel as shown on **Exhibit A** shall be located so as not to preclude the future construction by others of (i) road widening, on-street parking and streetscape improvements along public streets, including Jones Branch Drive, and (ii) a future

grid street within the thirty-five (35) foot wide right-of-way identified on **Exhibit A** as "AREA FOR POTENTIAL FUTURE ROAD EXTENSION." Subject to approval of the appropriate waivers, the Applicant shall have no obligation, in connection with the site plans for the Athletic Fields Improvements, the Stream Trail Improvements (as defined below) and the Stream Restoration Improvements (as defined below) or otherwise, to design and/or construct, or contribute funds toward construction, of such public street frontage improvements or such future grid street.

- C. Construction of Stream Valley Trail. Prior to June 30, 2015 as described in Proffer 51 below, or such later date as may be determined by the Zoning Administrator pursuant to Proffer 108, an asphalt trail, approximately eight (8) feet in width, with a bridge where the trail crosses the stream (collectively, the "Stream Trail Improvements"), shall be constructed through the stream valley corridor on the Park/School/Athletic Fields Parcel from Westpark Drive northward to connect to the portion of the Park/School/Athletic Fields Parcel on which the athletic fields are located, generally as shown on **Exhibit A**. The location of this trail shall be coordinated with the Park Authority Trails Coordinator. The Applicant shall work with the Park Authority Trails Coordinator to design the location of this trail connection to reduce the slope to the extent practicable while meeting the applicable standards of the PFM and mitigating unnecessary impacts on the scenic quality of this trail connection.
- D. Outfall and Stream Bank Restoration. Prior to June 30, 2015, as described in Proffer 51 below, the Applicant shall construct, at a total cost not to exceed \$500,000, the following: (a) improvements to the storm drain outfall from the culvert under Westpark Drive, such as plunge pools extending approximately 125 linear feet downstream from the outfall, including stream channel treatment along the existing public sanitary sewer main that crosses the main stream channel, but not to include any alteration nor treatment of the sanitary sewer main pipe itself, and (b) such other stream bank stabilization improvements on the Park/School/Athletic Fields Parcel and, subject to provision of necessary off-site easements and appropriate indemnification by others without payment of consideration by the Applicant for such easements and indemnification, on immediately abutting property, as determined in consultation with DPWES, the Park Authority and the U.S. Army Corps of Engineers (collectively, the "Stream Restoration Improvements"). In addition to the Stream Restoration Improvements, the Applicant shall, subject to issuance of necessary permits and if a notice of violation has been issued and the violation has not already been addressed, dredge Pond D located on

Fairfax County Tax Map Parcel 29-4-((7))-B to the original design depth and limits of construction pursuant to SD-1213-1 and -2, based on a bathymetric study conducted before and immediately after such dredging (the "Pond D Dredging"). In such event, the Pond D Dredging shall be done in conjunction with the improvements to the storm drain outfall described in subparagraph (a) above. The Pond D Dredging shall not include any improvements to the existing dam, riser, inlets or other structural elements, except for repairs to address damage, if any, that may be caused by the Pond D Dredging, nor any further improvements upstream. The Stream Restoration Improvements shall not include any work related to the existing structures on Parcel A4 or any soils or erosion surrounding such structures. If the improvements described in subparagraph (b) as determined in consultation with DPWES, the Park Authority and the U.S. Army Corps of Engineers, are projected, based on two qualified bids at the time of 75% plan design, to exceed the \$500,000 limitation, then the Applicant will work with DPWES, the Park Authority and the U.S. Army Corps of Engineers to adjust the design and/or nature of the improvements so the total cost of the improvements will not exceed the \$500,000 limitation. If no agreement can be reached on the design and/or nature of the improvements described in subparagraph (b) in sufficient time to complete such improvements by the deadline provided herein, and/or if necessary easements and agreements cannot be obtained for off-site work, then the Applicant shall pay the balance of the \$500,000 less the documented amount spent on the improvements to the storm drain outfall described in subparagraph (a) above, in lieu of the Applicant constructing the improvements described in subparagraph (b) above. The Applicant shall provide to the County reasonable documentation, such as invoices and receipts, to document the actual amount of funds spent on the Stream Restoration Improvements. If any of the Stream Restoration Improvements are provided as part of the public improvements plan described in Proffer 62.A., the cost of such improvements shall count toward the \$500,000 limit on the commitments in this paragraph. Construction of all or any portion of the Stream Restoration Improvements shall not be a condition to the site plan approval for Block A, Block E or Block F, unless all or a portion of the Stream Restoration Improvements are required for the subject Block to meet the minimum adequate outfall requirements of the PFM. If all or any portion of the Stream Restoration Improvements are required for Block A, Block E or Block F to meet the minimum adequate outfall requirements of the PFM, such portion of the Stream Restoration Improvements may be a condition of site plan approval for such Block in accordance with the PFM requirements and the estimated value of such portion of the Stream Restoration Improvements, based on the engineer's estimate as approved by DPWES, shall not be counted toward the \$500,000 limit on the commitments in this paragraph.

- E. Contribution to Costs of Potential Future Park/School/Athletic Fields Parcel Improvements. A total contribution of \$600,000 shall be made to the Board solely for the purposes of designing the elementary school facilities on the Park/School/Athletic Fields Parcel, maintaining, repairing and replacing the athletic fields and/or trails constructed on the Park/School/Athletic Fields Parcel and/or for stream improvements or restoration activities. The amount of this contribution shall escalate as provided in Proffer 111. Such contribution shall be made in three (3) equal payments to the County of \$200,000 each, to be made prior to issuance of the building permit for each of the three buildings to be constructed on Block B and Block C.

51. Construction of the Athletic Fields and Related Facilities. Not later than one hundred-twenty (120) days after the approval of this Rezoning, the Applicant shall submit to the County one or more site plans for the Athletic Fields Improvements, the Stream Trail Improvements and the Stream Restoration Improvements. The Applicant reserves the right to (i) submit a separate site plan for Stream Trail Improvements and the Stream Restoration Improvements or to identify that work as a separate phase from the Athletic Fields Improvements, and (ii) subdivide the Park/School/Athletic Fields Parcel in order to dedicate the portion on which the athletic fields and related facilities are located and obtain bond release for that portion while work continues on the remainder of the Park/School/Athletic Fields Parcel to complete the Stream Trail Improvements and the Stream Restoration Improvements. The Applicant shall diligently pursue site plan approval for all the proffered improvements to the Park/School/Athletic Fields Parcel. Upon approval of the site plans, the Applicant shall diligently pursue construction of all improvements and complete construction by June 30, 2015, or such later date as may be determined by the Zoning Administrator pursuant to Proffer 108. No approvals, including without limitation, site plan, demolition permit, grading permit, building permit, foundation permit, sheeting/shoring permits, RUPs and/or Non-RUPs, shall be withheld for Block A, Block E and/or Block F after the June 30, 2015 deadline if construction of the Athletic Fields Improvements, the Stream Trail Improvements and/or the Stream Restoration Improvements has not been completed as long as the Applicant has (i) escrowed with the County funds that, based on a budget approved by DPWES, will be sufficient to complete construction of such improvements, when combined with any bonds posted with any approved site plans for such improvements, if any, and (ii) delivered a deed for the dedication of the Park/School/Athletic Fields Parcel to the County, in escrow, to be released from escrow and recorded upon completion of construction of the Athletic Fields Improvements, the Stream Trail Improvements and the Stream Restoration Improvements and release of the bonds posted for the sites plans for such improvements. Irrespective of the foregoing, approvals as set forth above may be withheld for Blocks B, C and D if such improvements have not been completed prior to the deadline.

52. Contingencies for Early Removal of Field Two. In the event Field Two (i) is not constructed because the School Board notifies the Applicant prior to the date the Applicant has posted the bonds for the Athletic Field Site Plan that it intends to proceed with development of

such area for a new school, or (ii) is constructed, but is removed on a date that is less than ten (10) years from the date construction of Field Two is completed (the "Field Two Completion Date") because the School Board proceeds with construction of a new school, then the Applicant shall escrow, pursuant to a Future Construction Agreement for the approved Athletic Field Site Plan, an amount equal to \$5.50 per square foot of playing surface for Field One to be used exclusively for the removal and replacement of the original artificial playing surface installed on Field One. The total value of the escrow amount is estimated to be \$450,000.00. The Future Construction Escrow can be in the form of a letter of credit or surety bond consistent with the applicable provisions of the PFM. If either a letter of credit or a surety bond is provided, DPWES shall notify the Applicant at least six (6) months prior to the need for payment of the cost to resurface the playing area on Field One, and the Applicant shall replace the letter of credit or surety bond, as applicable, with a cash escrow to be used by the County to pay to resurface Field One.

53. Public Schools Cash Contribution. In addition to the off-site dedication of the Park/School/Athletic Fields Parcel, prior to the issuance of the first RUP for each building in Block A and the first RUP for the building in Block E, the amount of \$9,378.00 per student for students projected to be generated by this redevelopment shall be contributed to the Board for transfer to Fairfax County Public Schools ("FCPS") to be utilized for capital improvements and capacity enhancements at the schools that students generated by these residential buildings will attend. This contribution shall be based on student yield ratios of 0.047, 0.013 and 0.027 per unit for elementary, middle and high school, respectively. Such contribution shall be made at the time of issuance of the first RUP for each residential building.

54. Adjustments to Schools Cash Contribution. If, prior to site plan approval for the respective residential buildings, the County should increase the accepted ratio of students per subject multi-family unit or the amount of the contribution per student, the amount of the contribution shall be increased for that building to reflect the current ratio and/or contribution. If the County should decrease the ratio or contribution amount, the amount of the contribution shall be decreased to reflect the current ratio and/or contribution.

ON-SITE PARKS AND ACTIVE RECREATION FACILITIES

55. Publicly-Accessible Parks by Block. Parks, plazas, terraces, trails and open space shown on the CDP, while retained in private ownership, shall be subject to public access easements which shall reserve to each Applicant, as applicable, the right, as to its respective Block, to reasonably restrict access for limited times for special events, security, maintenance and repairs and/or safety purposes. Each Applicant may establish reasonable rules and regulations for the public areas on its respective Block provided, however, that such public areas generally are open on a daily basis from dawn until dusk (10:00 p.m. if lighted). At the time of site plan submission for the first building in Block C, the Applicant shall enter into discussions with FCPA regarding opportunities for public programming within the large Urban Park within Block C. Any such agreement between the Applicant and FCPA shall be memorialized in a "Memorandum of Understanding." Special amenity features generally described below shall be

depicted on the FDP for Block C, and shall be designed to enhance and complement land uses and may include both hardscape and softscape elements generally as depicted on the CDP. Parks and other publicly-accessible recreation areas shall be provided on each respective Block as generally shown on the Phasing Sheets and Urban Parks Plan on the CDP at the time of issuance of the first RUP or Non-RUP for new construction on that Block and as further described below, with more specific details provided on the FDP for each Block:

- A. Block A. As shown conceptually on the CDP, a minimum of two (2) publicly-accessible "Pocket Parks" (one "B" type and one "C" type as defined on the CDP) shall be provided within Block A prior to issuance of the first RUP for the second building within Block A. These two pocket parks shall offer passive recreation opportunities. Pocket Park C is "Resource Protection Area" and, as such, shall remain in undisturbed open space with no improvements as set forth on the CDP and in these Proffers. Pocket Park B located along the southern property boundary will be designed to enhance the adjacent open space and trail areas and provide connectivity and seating as appropriate, subject to availability of appropriate off-site easements without payment by the Applicant of monetary consideration for the conveyance of such easements. The Applicant shall make diligent efforts to obtain such off-site easements to enable such trail connection and, if requested, shall provide documentation demonstrating same. However, in the event the necessary off-site easements cannot be acquired, then the cost to construct the portion of such trail from the Subject Property boundary to the existing or planned location of the off-site trail shall be escrowed with the County by the Applicant for the Block adjacent to such trail connection, and upon payment of such escrow the obligation to construct this trail connection shall be satisfied.

- B. Block C. As shown conceptually on the CDP, an approximately 2.96-acre, publicly accessible Civic Plaza/Common Green ("Urban Park"), including sport courts, terraces and grand staircase areas shall be provided within Block C prior to issuance of the first Non-RUP for the last of the two buildings in Block C. Design of the Urban Park shall be depicted at the time of FDP for Block C, but at a minimum shall include a large lawn, shade structure, walkways, seating areas, terraces, sculpture or other public art and active recreation. An elevator shall be provided and other design features as determined by the Applicant shall be located in or around the associated urban plaza, subject to final engineering. In addition, one tennis court, one basketball court and a children's playground shall be provided prior to issuance of the first Non-RUP for the second building in Block C, on the top level of the garage for use by the public, as shown conceptually on the CDP. These facilities shall be privately owned and maintained, but they shall be available for public use

and subject to a public access easement, which shall reserve to the Applicant the right to restrict access as described in this Proffer 55. Two trail connections to the existing off-site asphalt trail shall be provided within Block C prior to issuance of the first Non-RUP for Block C, subject to appropriate off-site easements being provided by others to the Applicant without payment by the Applicant of monetary consideration for the conveyance of such easements. The Applicant shall make diligent efforts to obtain such off-site easements to enable such trail connection and, if requested, shall provide documentation demonstrating same. However, in the event the necessary off-site easements cannot be acquired, then the cost to construct the portion of such trail from the Subject Property boundary to the existing off-site asphalt trail shall be escrowed with the County by the Applicant for the Block adjacent to such trail connection, and upon payment of such escrow the obligation to construct this trail connection shall be satisfied.

- C. Block E. As shown conceptually on the CDP, one publicly-accessible "Pocket Park" ("A" type) that is a minimum of one-half acre in size shall be provided prior to issuance of the first RUP or Non-RUP for Block E. This pocket park shall provide important connectivity between Blocks D and F and shall be designed to create an intimate passive park that includes seating, special plantings, plaza area, lawn space and special paving areas activating the space and linking it to the adjacent residential use. One trail connection to the existing off-site asphalt trail, including ramps and stairways depicted on the CDP, shall be provided within Block E prior to issuance of the first RUP or Non-RUP for Block E, subject to appropriate off-site easements being provided by others to the Applicant without payment by the Applicant of monetary consideration for the conveyance of such easements. The Applicant shall make diligent efforts to obtain such off-site easements to enable such trail connection and, if requested, shall provide documentation demonstrating same. However, in the event the necessary off-site easements cannot be acquired, then the cost to construct the portion of such trail from the Subject Property boundary to the existing off-site asphalt trail shall be escrowed with the County by the Applicant for the Block adjacent to such trail connection, and upon payment of such escrow the obligation to construct this trail connection shall be satisfied.
- D. Block F. As shown conceptually on the CDP, publicly-accessible "Pocket Parks" totaling a minimum of 10,000 square feet shall be provided prior to the first Non-RUP for Block F. The smaller pocket park along Westpark Drive on the east side of the proposed office building may be designed as a hardscape plaza and include a combination of special hardscape paving, benches, shade trees and/or seating areas. The larger pocket park on the

western side of the office building shall be designed to facilitate pedestrian connectivity to the publicly-accessible park space and trail connections to the west and may include, but shall not be limited to, such design elements as special paving, benches, potential outdoor retail seating, shade trees and/or an architectural feature.

56. Urban Parks Tabulations. The publicly-accessible open space tabulations set forth on the CDP shall be achieved when redevelopment of the entire Subject Property is complete, in accordance with Par. 2 of Sect. 16-403 of the Zoning Ordinance.

57. Private Active Recreation Facilities. Pursuant to Par. 2 of Sect. 6-508 and of Sect. 16-404 of the Zoning Ordinance, at the time of site plan approval, a minimum of \$1,700.00 per market-rate and workforce residential dwelling unit shall be provided for each residential building within Block A and Block E toward construction of developed on-site recreation facilities (privately and publicly-accessible) for each respective building. The balance of any funds not expended for the applicable residential building, if any as determined by DPWES, shall be contributed or may be escrowed, prior to issuance of the RUP for the final unit in such building, for provision of future on-site recreation facilities (private and publicly accessible) within Block C, and, if no such facilities are identified, then such residual funds shall be contributed to the FCPA for the provision of recreation facilities within Tysons Corner. The specific facilities and amenities noted below (which are separate from and in addition to the required provision of publicly accessible park space) shall be provided within each residential Block and may be shared between two or more residential buildings for the use and enjoyment of the residents of those buildings, as determined at the time of FDP approval. Private recreation facilities shall include, but not be limited to:

- A. Private exterior courtyard areas, which may be located on the top deck of the parking garages and/or residential buildings or in open areas and may include pool facilities, informal seating areas, landscaping, hardscape areas and/or passive recreation areas; and
- B. An interior fitness center furnished with exercise equipment that may include, but is not limited to, stationary bikes, treadmills, weight machines and free weights, but not necessarily staffed.

PEDESTRIAN CIRCULATION

58. Pedestrian Connectivity. Pedestrian connectivity shall be provided throughout the Subject Property generally consistent with the concepts shown on the "Pedestrian Circulation Plan" through the use of elements such as wayfinding signage, terraces, sidewalks, trails and lawn areas. As depicted on the CDP, certain connections to open space, trails and/or sidewalks located off-site on the adjacent Tysons II property to the south (Tax Map Parcel 29-4-((10))-30), Parcel B2 to the north (Tax Map Parcel 29-2-((15))-B2) and the Avalon Crescent apartments to the west (Tax Map Parcel 29-4-((7))-B) shall be provided at the time of issuance of the first RUP

or Non-RUP for the Block adjacent to such connection, subject to appropriate off-site easements being provided by others to the Applicant without payment by the Applicant of monetary consideration for the conveyance of such easements. The Applicant shall make diligent efforts to obtain necessary off-site easements and, if requested, shall provide documentation demonstrating same. In the event the necessary off-site easements cannot be acquired, then the cost to construct the portion of such trail from the Subject Property boundary to the existing or planned location of the off-site trail shall be escrowed with the County, and upon payment of such escrow the obligation to construct this trail connection shall be satisfied. If approved by VDOT, a pedestrian crosswalk and trail connection across to off-site Fairfax County Tax Map Parcel 29-4-((7))-1A2 shall be provided which connects Arbor Row to the stream valley trail on the Parks/School/Athletic Fields Parcel, as referenced above.

TRANSPORTATION

59. Definition of Construct. The term "construct" as used with respect to the road improvements referenced in these Proffers shall mean such road improvement is open for use by the traveling public whether or not such improvement has been accepted by VDOT for maintenance.

60. VDOT Acceptance and Dedication. The Applicant shall diligently pursue acceptance by VDOT of all public street and related improvements to be maintained by VDOT, as more specifically described in these Proffers. All right-of-way proposed to be accepted by VDOT into the state system for maintenance shall be dedicated to the Board in fee simple.

61. Grid of Streets. With redevelopment of each Block, the frontage improvements along the existing public streets abutting such Block and the portions located on such Block of the proposed grid of streets, generally depicted on the CDP and the Phasing Sheets, shall be constructed and open for use by the public. The Applicant shall use good faith commercially reasonable efforts to construct such frontage improvements along Westpark Drive and Westbranch Drive pursuant to an approved public improvement plan ("PI Plan") for all such improvements. In such an event, all of those improvements (other than roadway frontage) shown on the CDP will be constructed in accordance with those sheets. The functional classification of the roadways comprising the grid of streets on the Subject Property is summarized below:

Street	Classification
Westpark Drive	Avenue (Public)
Westbranch Drive	Collector Street (Public)
Jones Branch Drive Extended	Local Street (Private; see <u>Proffer 62.C.</u>)
Private Access Roads or Streets	Service Streets (Private)

62. On-Site Road Improvements. All on-site public road improvements, on-site Private Streets and on-site Private Access Roads together with appropriate/required pavement transitions shall be constructed with the redevelopment of the individual Blocks as reflected on the Phasing Sheets, subject to VDOT approval, and prior to issuance of the first initial RUP or Non-RUP for the first new building to be constructed on the applicable Block. Such on-site road improvements shall generally consist of the following:

- A. Westpark Drive Frontage Improvements. Westpark Drive shall be constructed as generally reflected on the "Roadway Striping and Marking Plans," the "Road Cross Sections," and the Phasing Sheets in the CDP. The extent, final design and timing of these ultimate improvements shall be provided in conjunction with the redevelopment of each individual Block and determined at the time of site plan approval for that Block, unless constructed as a single public improvement project as described in Proffer 61. At a minimum, however, the frontage improvements for each respective Block shall be constructed prior to issuance of the first initial RUP or Non-RUP for the first new building to be constructed on that Block, except along the Block F frontage as qualified below.

With regard to Block F, the ultimate improvements of Westpark Drive, as described more fully above, shall be constructed along the Westpark Drive frontage of Block F prior to issuance of the first initial non-RUP for the new building on Block F. However, if the utility equipment associated with the I-495 Express Lane improvements that is currently installed in the Block F frontage (and scheduled for removal by VDOT by September 30, 2012) is not relocated prior to approval of the first site plan for the new building on Block F, then (i) the section of Westpark Drive along the Block F frontage will be constructed in an interim configuration as depicted on CDP Sheet C8.1; (ii) funds shall be escrowed with DPWES for the costs to construct the ultimate improvements of Westpark Drive along the frontage of Block F as described above and reflected on the CDP (exclusive of utility relocations related to the I-495 Express Lane improvements); and (iii) right-of-way and ancillary and reasonable

easements along the Block F frontage necessary for the construction by others of the ultimate section of Westpark Drive along the Block F frontage shall also be provided.

- i. Entrances to Westpark Drive. If Block E redevelops prior to Block F, the existing entrance from Westpark Drive to the northwest corner of Block F shall be retained until the construction of the redevelopment of Block F is completed, notwithstanding VDOT's approval of a new entrance from Westpark Drive to Block E, if VDOT permits the two entrances to be open and in operation simultaneously. In the event VDOT refuses to allow the two entrances to remain open at the same time, the existing entrance on Block F in the vicinity of the common property line between Block E and F shall be closed and the new permanent entrance from Westpark Drive to Block E will be constructed as shown on the Phasing Sheets. If Block F redevelops prior to Block E, the ultimate condition of the entrance from Westpark Drive into Block E shall be constructed, as shown on the CDP.
- B. Westbranch Drive Frontage Improvements. At the time of site plan approval for the first new building on Block A or Block B, whichever occurs first, or in conjunction with the PI Plan described in Proffer 61, the improvements to Westbranch Drive along the Block A frontage and the Block B frontage, respectively, will be constructed, as approved by VDOT and in general accordance with the, the "Roadway Striping and Marking Plans," the "Road Cross Sections," and consistent with the Phasing Sheets. The final design and extent of the improvements to Westbranch Drive as generally described and referenced above shall be determined at the time of the first site plan approval for Block A or Block B, whichever occurs first.
- C. Jones Branch Drive Extended. An extension of Jones Branch Drive ("Jones Branch Drive Extended") from Westpark Drive south as shown on the CDP and in general accordance with the "Roadway Striping and Marking Plans," the "Road Cross Sections" and consistent with the Phasing Sheets shall be constructed with the redevelopment of Block D or Block E, whichever occurs first, unless previously constructed by others. Jones Branch Drive Extended will be designed and constructed in accordance with current public street standards applicable to a "local street," but it will be privately maintained until such time as the adjacent property to the south redevelops, such section of Jones Branch Drive Extended connects to a public street to the south, and VDOT accepts such section of Jones Branch Drive Extended into the State system for maintenance. The right-of-way area for Jones Branch Drive Extended as

shown on the CDP shall be reserved for future dedication for public street purposes if and when VDOT is prepared to accept such section of Jones Branch Drive Extended into the State system for maintenance as described in the preceding sentence. The final design of Jones Branch Drive Extended as generally described and referenced above shall be determined at the time of the first site plan approval for either Block D or Block E, whichever occurs first.

- D. Private Streets and Access Roads. With the redevelopment of each Block, the private streets and access roads as shown on the CDP and on the Phasing Sheets, shall be constructed (unless already constructed by others) and open for use by the public and a public access easement in a form acceptable to the County Attorney shall be granted.

63. Off-Site Transportation Improvements. Coincident with the submission of the first site plan for a new building on either Block B or Block C, the Applicant shall submit to VDOT and DPWES, a plan for a 275-foot extension of the southbound left turn bay on International Drive at Westpark Drive within existing rights-of-way and subject to VDOT approval and permitting. This off-site improvement shall be constructed prior to the issuance of the first initial Non-RUP for the second building to be constructed on either of Block B or Block C. Because Arbor Row generates only 23% of the southbound left-turn traffic (as set forth in the TIA), at least 77% of the construction costs associated with this improvement shall be credited against the Applicant's contribution to the Tysons Area Road Fund as evidenced by construction invoices.

64. VDOT Approval. All public street improvements proposed herein shall be subject to VDOT approval, and shall be in general conformance with the Transportation Design Standards, as amended, subject to any permitted modifications and/or waivers that may be granted.

65. Westpark Drive/Westbranch Drive Traffic Signal. A warrant study for the installation of a new traffic signal at the Westpark Drive/Westbranch Drive intersection shall be submitted in accordance with the Phasing Sheets and within twelve (12) months after the issuance of the first initial RUP or Non-RUP for the first new building constructed on Block A, Block B or Block C. If a signal is deemed warranted by VDOT at that time after having reviewed the warrant study and approved for installation, then such traffic signal, including pedestrian enhancements as may be required by VDOT, shall be designed, equipped and installed by the Applicant.

In the event the signal proposed for the Westpark Drive/Westbranch Drive intersection is deemed not warranted within twelve (12) months after the issuance of the first Non-RUP or RUP for the first building in Block A, Block B, or Block C, then the Applicant shall submit a second warrant study within twelve (12) months after the issuance of the first initial RUP or Non-RUP for the fifth (5th) building on the Subject Property. If warranted by VDOT at that time after

having reviewed the warrant study, the Applicant shall design, equip and install such signal including pedestrian enhancements as required by VDOT.

In the event the signal proposed for Westpark Drive/Westbranch Drive is not deemed warranted after the 5th building, then the Applicant shall conduct a third and final warrant study within twelve (12) months after the first initial RUP or Non-RUP for the last new building on the Subject Property. If warranted by VDOT at that time after having reviewed the warrant study, the Applicant shall design, equip and install such signal including pedestrian enhancements as may be required by VDOT. If not warranted with the last building on the Subject Property then the Applicant's obligation to construct or in any manner pay for such signal is deemed null and void and this Proffer of no further effect.

66. Jones Branch Drive/Westbranch Drive Traffic Signal. A warrant study for installation of a new traffic signal at the Jones Branch Drive/Westbranch Drive intersection shall be submitted within twelve (12) months after the issuance of the first RUP or Non-RUP for the fifth new building constructed on the Subject Property. If a signal is deemed warranted by VDOT and approved for installation at this intersection, then such traffic signal, including pedestrian enhancements as may be required by VDOT, shall be designed, equipped and installed by the Applicant for such fifth new building.

In the event that the signal proposed for the Jones Branch Drive/Westbranch Drive intersection is deemed not warranted within twelve (12) months after the issuance of the first Non-RUP or RUP for the fifth new building constructed on the Subject Property, then the Applicant shall conduct a second warrant study within twelve (12) months after the first initial RUP or Non-RUP for the last building on the Subject Property. If warranted by VDOT at that time after having reviewed the warrant study, the Applicant shall design, equip and install such signal including pedestrian enhancements as required by VDOT. If not warranted with the last building on the Subject Property, then the Applicant's obligation to construct or in any manner pay for such signal is deemed null and void and this Proffer of no further effect.

67. Traffic Signal Modifications. Concurrent with the submission of the first site plan for Block D or Block E, a signal modification plan for the Jones Branch Drive Extended intersection with Westpark Drive shall be submitted to VDOT and such signal modifications, including pedestrian enhancements, as may be required by VDOT and in accordance with the Phasing Sheets, shall be completed prior to opening Jones Branch Drive Extended to traffic.

68. Potential Future Right-Of-Way Vacation Areas. In the event any public street right-of-way that abuts the Subject Property is vacated and/or abandoned subsequent to approval of this Rezoning, such right-of-way area will become zoned to the PTC District pursuant to Sect. 2-203 of the Zoning Ordinance and such right-of-way area may be used, without requiring a PCA, CDPA or FDPA, for utilities and to accommodate sidewalks and streetscape elements consistent with the street sections shown on the CDP and/or with the Tysons Urban Design Guidelines.

69. Pedestrian Enhancements. Any and all crosswalks shown on the CDP and FDPs crossing public streets are conceptual only and subject to VDOT review and approval at site plan.

70. Supplemental Traffic Analyses. At the time of site plan submission for each Block subsequent to approval of this Rezoning, supplemental operational traffic analyses of the points of access to the subject Block shall be provided if required by VDOT. For purposes of this Proffer, such analyses shall only be required if the Block generates more than an additional 100 peak hour directional trips (either inbound or outbound). Such supplemental operational analyses also shall be limited to an assessment of those driveways and/or turn lanes serving the particular Block.

71. Notification Letter. At the time of filing of the first site plan for each of Block A through F, a notification letter shall be sent to the Director of FCDOT. The purpose of this letter is to facilitate coordination with DPWES to ensure site plans are consistent with the Transportation Design Standards.

72. Tysons Road Fund Contributions. At the time of issuance of the first RUP or Non-RUP for each new building on the Subject Property, a contribution shall be made to the Tysons Road Fund in the amount of \$6.44 per square foot of non-residential GFA or \$1,000 per residential unit for which the RUP or Non-RUP is requested. Credits shall be allowed against such contributions for the costs of the qualifying off-site intersection improvements provided pursuant to these Proffers. These payments may be made earlier than required pursuant to this Paragraph.

73. Board-Initiated Service District for Table 7 Improvements. The Applicant will support the creation of a Tysons-wide service district by the Board, on its own initiative, for the sole purpose of providing funds to Fairfax County for the private sector's share of the costs of the Table 7 transportation improvements to serve the Tysons Corner Urban Center.

74. Additional Tysons Road Fund Contributions for Table 7 Improvements. The Applicant shall contribute to the Tysons Road Fund the sum of \$5.63 per square foot for all new non-residential GFA on each respective Block, and \$1,000.00 for each residential unit constructed on the Subject Property. The contribution associated with each building shall be paid in a lump sum, based on the actual gross floor area of non-residential space and/or the actual number of residential units in the building, with payment to occur prior to the issuance of the first RUP or Non-RUP for each building. This contribution shall not apply to any public-use facilities constructed on the Subject Property. These payments may be made earlier than required pursuant to this paragraph.

75. Congestion Management Plan.

- A. The Applicant shall prepare and implement a construction congestion management plan during construction of each Block or Sub-Block, as appropriate, through its development/construction manager and the TPM

(as defined in Proffer 78.F.(i)), so as to provide safe and efficient pedestrian and vehicle circulation at all times on the Subject Property and on the public roadways adjoining the Subject Property (each a "Congestion Management Plan").

- B. Each Congestion Management Plan shall identify anticipated construction entrances, construction staging areas, construction vehicle routes and procedures for coordination with FCDOT and/or VDOT concerning construction material deliveries, lane closures, and/or other construction related activities to minimize disturbance on the surrounding road network.
- C. Each Congestion Management Plan shall also require the Applicant to coordinate its construction activities throughout construction with VDOT and FCDOT.
- D. Such Congestion Management Plans shall be prepared by a qualified professional and submitted in connection with the VDOT permit for construction on the subject Block or Sub-Block. In addition, the TPM shall coordinate any adjustments to the TDM Plan (as defined in Proffer 78) as necessary to address each Congestion Management Plan.

TRANSPORTATION DEMAND MANAGEMENT ("TDM")

76. Tysons Transportation Management Association. The Applicant shall contribute to Fairfax County funds for the establishment of a future transportation management association (the "TMA"), which may be established for the Tysons Corner Urban Center and to which all other Tysons property owners will also contribute.

- A. The Applicant shall make a one-time contribution to the County for the establishment of this future TMA based on a participation rate of \$0.10 per gross square foot of new office uses and \$0.05 per gross square foot of new residential uses to be constructed on the Subject Property.
- B. Twenty-five (25) percent of the total contribution to the TMA shall be paid upon site plan approval of the first new building to be constructed on the Subject Property. The remaining seventy-five percent (75%) of the total contribution shall be paid in three (3) equal installments prior to the issuance of the first RUP or Non-RUP for the first three (3) new buildings, but in any event no later than ten (10) years from the date of rezoning approval.
- C. If subsequent to the approval of this Rezoning, a Tysons Corner Urban Center-wide TMA is approved by FCDOT and established for the purpose of administering TDM programs in the Tysons Corner Urban Center, then

the Applicant may, in its sole discretion, join or otherwise become associated with such entity and transfer some or all functions of this TDM Program to the new entity, whereupon this Proffer in whole or in part shall be void and of no further force or effect. Further, if determined by FCDOT that a proactive, private TDM program is no longer necessary, the TDM structure in this Proffer may be rendered null and void in whole or in part without the need for a PCA.

- D. If the TMA has not been established within three (3) years after the approval of this Rezoning, this Proffer shall be null and void with no further effect on the Subject Property. Further, any funds contributed to the TMA would then be returned to the Applicant that paid such funds.

77. TDM Administrative Group. The Applicant shall establish a TDM Administrative Group (the "AG") to fund, implement and administer the transportation demand management program (the "TDM Program") for the Subject Property as described more fully below. The AG shall include, at a minimum, one representative for each of Blocks A through F. Prior to approval of the first site plan for new development on the Subject Property, written evidence shall be provided to FCDOT that the AG has been established.

78. Transportation Demand Management Plan. The proffered elements of the TDM Program as set forth below are more fully described in the Arbor Row Transportation Demand Management Plan prepared by M.J. Wells + Associates, Inc. dated February 22, 2012, as revised through August 31, 2012 (the "TDM Plan"). A copy of the cover sheet and table of contents of the TDM Plan is attached hereto as **Exhibit B**. It is the intent of this Proffer that the TDM Plan will adapt over time to respond to the changing transportation related circumstances of the Subject Property, the surrounding community and the region, as well as to technological and/or other improvements, all with the objective of meeting the trip reduction goals as set forth in these Proffers. Accordingly, modifications, revisions, and supplements to the TDM Plan as coordinated with FCDOT can be made without the need for a PCA provided that the TDM Plan continues to reflect the proffered elements of the TDM Program as set forth below.

- A. Definitions. For purposes of this Proffer, "Stabilization" shall be deemed to occur one (1) year following issuance of the last initial RUP or Non-RUP for the final new building to be constructed on the Subject Property. "Pre-stabilization" shall be deemed to occur any time prior to Stabilization.
- B. Trip Reduction Objective. The objective of this TDM Program shall be to reduce the vehicle trips generated by residents and office tenants of the Subject Property (i.e., not including trips from hotel and retail uses), during weekday peak hours associated with the adjacent streets as more fully described in the TDM Plan, by meeting the percentage vehicle trip reductions established by the Comprehensive Plan as set forth below. These trip reduction percentages shall be multiplied by the total number of

residential and office vehicle trips that would be expected to be generated by the uses developed on the Subject Property as determined by the application of the ITE Trip Generation rates and/or equations, and the number of trips determined by the product of such equation shall be referred to herein as the "Maximum Trips After Reduction." For purposes of this calculation, the maximum number of dwelling units or the total gross square footage of office uses proposed to be constructed in each building on the Subject Property as determined at the time of site plan approval for each new building shall be applied to the calculation described in the preceding sentence. The target reductions shall be as follows:

<u>Development Levels</u>	<u>Percentage Vehicle Trip Reduction</u>
Up to 65 million sq.ft. of GFA	30%
65 million sq.ft. of GFA	35%
84 million sq.ft. of GFA	40%
90 million sq.ft. of GFA	43%
96 million sq.ft. of GFA	45%
105 million sq.ft. of GFA	48%
113 million sq.ft. of GFA	50%

The trip reduction goals outlined above are predicated on the achievement of specific development levels within the Tysons Corner Urban Center as anticipated in the Comprehensive Plan. Prior to undertaking trip measurements, the AG in coordination with the County shall provide a summary of the then existing development levels in Tysons Corner (based on RUPs and Non-RUPS issued) in order to determine the appropriate vehicle trip reduction goal.

If through an amendment to the Comprehensive Plan, the Board should subsequently adopt a goal for trip reductions that is lower than that committed to in this Proffer, then the provisions of this Proffer shall be adjusted accordingly without requiring a PCA.

- C. TDM Program Components – Arbor Row-Wide. The TDM Program shall include, but not necessarily be limited to, the following Arbor Row-wide components, each of which are more fully described in the TDM Plan:
- (i) Arbor Row-wide TDM Program Management.
 - (ii) TDM Program Branding.
 - (iii) Transportation Program Web Site.

- (iv) Promotion of Real Time Transit Information.
 - (v) Arbor Row Transportation Access Guide.
 - (vi) Live/work/play marketing to new tenants.
 - (vii) Pedestrian/bicycle facilities.
 - (viii) Monitoring/reporting.
 - (ix) Sustainable annual funding.
 - (x) Parking Management.
- D. TDM Program Components – Residential. The TDM Program shall include, but not necessarily be limited to the following residential components, each of which is more fully described in the TDM Plan.
- (i) Residential Transportation Coordinators.
 - (ii) Try Transit Campaign for new residents.
- E. TDM Program Components – Office. The TDM Program shall include, but not necessarily be limited to the following office components, each of which is more fully described in the TDM Plan.
- (i) Office Transportation Coordinators.
 - (ii) Coordinated Outreach and Marketing Activities with TDM Providers.
 - (iii) Try Transit Campaign for new employees.
- F. Process of Implementation. The TDM Program shall be implemented as follows, provided that modifications, revisions, and supplements to the implementation process as set forth herein as coordinated with FCDOT can be made without requiring a PCA.
- (i) TDM Program Manager. If not previously appointed, the AG shall appoint and continuously employ, or cause to be employed, a TDM Program Manager ("TPM") for Arbor Row. If not previously appointed, the TPM shall be appointed by the AG no later than sixty (60) days after the issuance of the first building permit for the first new building to be constructed on the Subject Property. The TPM duties may be part of other duties associated with the appointee. The AG shall notify FCDOT and the District

Supervisor in writing within 10 days of the appointment of the TPM. Thereafter the AG shall do the same within ten (10) days of any change in such appointment.

- (ii) Annual Report and Budget. The TPM shall prepare and submit to FCDOT an initial TDM Work Plan ("TDMWP") and Annual Budget no later than 180 days after issuance of the first building permit for the first new building on the Subject Property. Every calendar year thereafter but no later than March 15th, the TPM shall submit an Annual Report, which may revise the Annual Budget in order to incorporate any new construction on the Subject Property. The Annual Report shall include, at a minimum:
- a. Details as to the components of the TDM program that will be put into action that year;
 - b. Any revisions to the budget needed to implement the program for the coming calendar year;
 - c. A summary of the then existing development levels in the Tysons Corner Urban Center as well as within Arbor Row;
 - d. A determination of the applicable Maximum Trips After Reduction for the Subject Property;
 - e. Provision of the specific details associated with the monitoring and reporting requirements of the TDM program in accordance with the TDM plan; and
 - f. Submission of the results of any Person Surveys and Vehicular Traffic Counts conducted on the Subject Property.

The Annual Report and Budget shall be reviewed by FCDOT. If FCDOT has not responded with any comments within sixty (60) days after submission, then the Annual Report and Budget shall be deemed approved and the program elements shall be implemented. If FCDOT responds with comments on the Annual Report and Budget, then the TPM will meet with FCDOT staff within fifteen (15) days of receipt of the County's comments. Thereafter, but in any event, no later than thirty (30) days after the meeting, the TPM shall submit such revisions to the program and/or budget as discussed and agreed to with FCDOT and begin implementation of the approved program and fund the approved TDM Budget. Thereafter, the TPM, in conjunction with each Annual Report

summarizing the results of the TDM Program to be submitted no later than March 15th (the "Annual Report"), shall update the Annual Report and TDM Budget for each succeeding calendar year, modify or enhance program elements and establish a budget to cover the costs of implementation of the program for such year. The expected annual amounts of the TDM Budget are further described in Section 7.0 of the TDM Plan.

- (iii) TDM Account. If not previously established, the AG, through the TPM, shall establish a separate interest bearing account with a bank or other financial institution qualified to do business in Virginia (the "TDM Account") within 30 days after approval of the TDM Budget. All interest earned on the principal shall remain in the TDM Account and shall be used by the TPM for TDM purposes. The TDM Account shall be funded by the AG, through the TPM. The documents that establish the AG shall provide that the TDM Account shall not be eliminated as a line item in the governing budget and that funds in the TDM Account shall not be utilized for purposes other than to fund TDM strategies/programs and/or specific infrastructure needs as may be approved in consultation with FCDOT.

Funding of the TDM Account shall be in accordance with the budget for the TDM Program elements to be implemented in any given year. In no event shall the TDM Budget exceed \$122,500 (this amount shall be adjusted annually from the date of rezoning approval for the Subject Property (the "Base Year")) and shall be adjusted on each anniversary thereafter of the Base Year in accordance with Proffer 111. The TPM shall provide written documentation to FCDOT demonstrating the establishment of the TDM Account within ten (10) days of its establishment. The TDM Account shall be replenished annually thereafter following the establishment of each year's TDM Budget. The TDM Account shall be managed by the TPM.

- (iv) TDM Remedy Fund. At the same time the TPM creates and funds the TDM Account, the TPM shall establish a separate interest bearing account (referred to as the "TDM Remedy Fund") with a bank or other financial institution qualified to do business in Virginia. Funding of the TDM Remedy Fund shall be made one time on a building by building basis at the rate of \$0.40 per gross square foot of new office uses and \$0.30 per gross square foot of new residential uses on the Subject Property. Funding shall be provided by the building owners prior to the issuance of the first

initial RUP or Non-RUP for each applicable new building. This amount shall be adjusted annually from the date of rezoning approval of the Subject Property (the "Base Year") and shall be adjusted on each anniversary thereafter of the Base Year as permitted by VA. Code Ann. Section 15.2-2303.3. Funds from the TDM Remedy Fund shall be drawn upon only for purposes of immediate need for TDM funding and may be drawn on prior to any TDM Budget adjustments as may be required.

- (v) TDM Incentive Fund. The "TDM Incentive Fund" is an account into which the building owners, through the TPM, shall deposit contributions to fund a multimodal incentive program for initial purchasers/lessees within Arbor Row. Such contributions shall be made one time on a building by building basis at the rate of \$0.02 per gross square foot of new office or residential uses to be constructed on the Subject Property and provided prior to the issuance of the first RUP or Non-RUP for each individual building.
- (vi) TDM Penalty Fund. The "TDM Penalty Fund" is an account into which the AG shall, through the TPM, shall deposit penalty payments as may be required to be paid pursuant to this Proffer for non-attainment of trip reduction goals. The County may withdraw funds from the TDM Penalty Fund for the implementation of additional TDM Program elements/incentives and/or congestion management, first for Arbor Row, then for other TDM-related improvements or programs within Tysons Corner. To secure the AG's obligations to make payments into the TDM Penalty Fund, the AG shall provide the County with a letter of credit or a cash escrow as further described below.

Prior to the issuance of the first RUP or Non-RUP for each new building on the Subject Property, the AG shall:

- a. Establish the TDM Penalty Fund, if not previously established by the TPM, and/or
- b. Deliver to the County a clean, irrevocable letter of credit issued by a banking institution approved by the County or escrow cash in an interest-bearing account with an escrow agent acceptable to DPWES to secure the AG's obligations to make payments into the TDM Penalty Fund (the "Letter(s) of Credit or Cash Escrow(s)"). The Letter(s) of Credit or Cash Escrow(s) shall be issued in an amount equal to \$0.10 for each square foot of new office GFA or \$0.05 for each square foot of new residential GFA shown

on the approved site plan for each new building on the Subject Property. Until the Letter(s) of Credit or Cash Escrow(s) has been posted, the figures in the preceding sentence shall be adjusted annually from the first day of the calendar month following the date on which the first RUP or Non-RUP, as the case may be, for the first new building on the Subject Property has been issued in accordance with Proffer 111, using the date of rezoning approval as the base year. Once the Letter(s) of Credit or Cash Escrow(s) has been posted, there shall be no further adjustments or increases in the amount thereof. The Letter(s) of Credit or Cash Escrow(s) shall name the County as the beneficiary and shall permit partial draws or a full draw. The foregoing stated amount(s) of the Letter(s) of Credit or Cash Escrow(s) shall be reduced by the sum of any and all previous draws under the Letter(s) of Credit or Cash Escrow(s) and payments by the AG (or the TPM) into the TDM Penalty Fund as provided below.

- (vii) Monitoring. The AG shall verify that the proffered trip reduction goals are being met through the completion of Person Surveys, Vehicular Traffic Counts of residential and/or office uses and/or other such methods as may be reviewed and approved by FCDOT. The results of such Person Surveys and Vehicular Traffic Counts shall be provided to FCDOT as part of the annual reporting process. Person Surveys and Vehicular Traffic Counts shall be conducted for the Subject Property beginning one year following issuance of the final initial RUP or Non-RUP for the first new building to be constructed on the Subject Property. Person Surveys shall be conducted every three (3) years and Vehicular Traffic Counts shall be collected annually until the results of three consecutive annual traffic counts conducted upon Stabilization show that the applicable trip reduction goals for the Subject Property have been met. At such time and notwithstanding Paragraph H below, Person Surveys and Vehicular Traffic Counts shall thereafter be provided every five (5) years. Notwithstanding the aforementioned, at any time prior to or after Stabilization, FCDOT may suspend such Vehicle Traffic Counts and/or Person Surveys if conditions warrant such.

G. Remedies and Penalties.

(i) Pre-Stabilization. If the Maximum Trips After Reduction for the Subject Property is exceeded as evidenced by the Vehicular Traffic Counts outlined above, then the TPM shall meet and coordinate with FCDOT to address, develop and implement such remedial measures as may be identified in the TDM Plan and annual TDMWP.

a. Such remedial measures shall be funded by the Remedy Fund, as may be necessary, and based on the expenditure program that follows:

Maximum Trips Exceeded	Remedy Expenditure
Up to 1%	No Remedy needed
1.1% to 3%	1% of Remedy fund
3.1% to 6%	2% of Remedy Fund
6.1% to 10%	4% of Remedy Fund
Over 10%	8% of Remedy Fund

b. If the results of the Vehicular Traffic Counts conducted during Pre-Stabilization show that the trip reduction goals have been met site-wide for three (3) consecutive years in accordance with the goals outlined on the table below, then a portion of the Remedy Fund as outlined in the same table below shall be released back to the building owner(s) through the AG. The amount released will be relative to the amount contributed by those buildings constructed and occupied at the time of Vehicular Traffic Counts. Any funds remaining in the Remedy Fund after such release will be carried over to the next consecutive three (3) year period.

Up to 65,000,000 Square Feet of GFA in Tysons	
Meet or Exceed Trip Goal for 3 Years By:	Cumulative % Remedy Fund Returned
Meet Goal	30%
5% - 10%	50%
10.1% - 15%	65%
15.1% - 18%	80%
18.1 - 20%	90%
Reach Final Goal	100%

65-84,000,000 Square Feet of GFA in Tysons	
Meet or Exceed Trip Goal for 3 Years By:	Cumulative % Remedy Fund Returned
Meet Goal	50%
5% - 10%	65%
10.1% - 13%	80%
13.1% - 15%	90%
Reach Final Goal	100%

84-90,000,000 Square Feet of GFA in Tysons	
Meet or Exceed Trip Goal for 3 Years By:	Cumulative % Remedy Fund Returned
Meet Goal	65%
5% - 8%	80%
8.1% - 10%	90%
Reach Final Goal	100%

90-96,000,000 Square Feet of GFA in Tysons	
Meet or Exceed Trip Goal for 3 Years By:	Cumulative % Remedy Fund Returned
Meet Goal	80%
5% - 8%	90%
Reach Final Goal	100%

96-113,000,000 Square Feet of GFA in Tysons	
Meet or Exceed Trip Goal for 3 Years By:	Cumulative % Remedy Fund Returned
Meet Goal	90%
5%	100%

113,000,000+ Square Feet of GFA in Tysons	
Meet or Exceed Trip Goal for 3 Years By:	Cumulative % Remedy Fund Returned
Meet Goal	100%

c. The Applicant, through the TPM, is not required to replenish the TDM Remedy Fund at any time. Any cash left in the Remedy Fund will be released to the AG for final distribution to the owners once three consecutive annual Vehicular Traffic Counts conducted after Stabilization show that the trip reduction goals have been met.

(ii) Following Stabilization.

a. *Remedies.* If the TDM Program monitoring, as evidenced by the Vehicular Traffic Counts outlined above, reveals that the Maximum Trips After Reduction for the Subject Property is exceeded, then the TPM shall meet and coordinate with FCDOT to address, develop and implement such remedial measures as may be identified in the TDM Plan and Annual Report and funded by the Remedy Fund (if available) as may be necessary, commensurate with the

extent of deviation from the Maximum Trips After Reduction goal as set forth in accordance with the expenditure schedule outlined above.

- b. If the results of the Vehicular Traffic Counts conducted upon Stabilization show that the trip reduction goals have been met site-wide for three (3) consecutive years in accordance with the table above, then any remaining Remedy Funds shall be released back to the building owner(s) through the AG.
- c. *Penalties.* If despite the implementation of remedial efforts, the applicable Maximum Trips After Reduction (based on the existing and approved development levels in the Tysons Corner Urban Center as described in Proffer 78.B.) are still exceeded after three (3) consecutive years, then, in addition to addressing further remedial measures as set forth in this Proffer, the TPM shall be assessed a penalty according to the following:

Exceeded Trip Goals	Penalty
Less than 1%	No Penalty Due
3.1% to 6%	10% of Penalty Fund
6.1% to 10%	15% of Penalty Fund
Over 10%	20% of Penalty Fund

- (iii) The AG through the TPM shall make the payments required by this Proffer into the TDM Penalty Fund upon written demand by the County, and the County shall be authorized to withdraw the amounts on deposit in the TDM Penalty Fund. If the AG fails to make the required penalty payment to the TDM Penalty Fund within thirty (30) days after written demand, the County shall have the ability to withdraw the penalty amount directly from the Letter(s) of Credit or Cash Escrow(s).
- (iv) The maximum amount of penalties associated with the Subject Property, and the maximum amount the AG shall ever be required to pay pursuant to the penalty provisions of this Proffer, including prior to and after Stabilization, shall not in the aggregate exceed the amount of the Letter(s) of Credit or Cash Escrow(s) determined and computed pursuant to the provisions of the above Proffer. There is no requirement to replenish the TDM Penalty Fund at any time. The Letter(s) of Credit and/or any cash left in the Cash Escrow(s) (either Penalty and/or Remedy Funds) shall be released

to the AG once three (3) consecutive counts conducted upon Stabilization show that the Maximum Trips After Reduction have not been exceeded.

- H. Additional Trip Counts. If an Annual Report indicates that a change has occurred that is significant enough to reasonably call into question whether the applicable vehicle trip reduction goals are continuing to be met, then FCDOT may require the TPM to conduct additional Vehicular Traffic Counts (pursuant to the methodology set forth in the TDM Plan) within 90 days to determine whether in fact such objectives are being met. If any such Vehicular Traffic Counts demonstrate that the applicable vehicle trip reduction goals are not being met, then the TPM shall meet with FCDOT to review the TDM strategies in place and to develop modifications to the TDM Plan to address the surplus of trips.
- I. Review of Trip Reduction Goals. At any time and concurrent with remedial actions and/or the payment of penalties as outlined in Proffer 78.G., the AG may request that FCDOT review the vehicle trip reduction goals established for the Subject Property and set a revised lower goal for the Subject Property consistent with the results of such surveys and vehicular traffic counts provided for by this Proffer. In the event a revised lower goal is established for the Subject Property, the Maximum Trips After Reduction shall be revised accordingly for the subsequent review period without the need for a PCA.
- J. Continuing Implementation. The AG through the TPM shall bear sole responsibility for continuing implementation of the TDM Program and compliance with this Proffer. The AG through the TPM shall continue to administer the TDM Program in the ordinary course in accordance with this Proffer including submission of Annual Reports.
- K. Notice to Owners. All owners of the Subject Property shall be advised of the TDM Program set forth in this Proffer. The then current owner shall advise all successor owners and/or developers of their funding obligations pursuant to the requirements of this Proffer prior to purchase, and the requirements of the TDM Program, including the annual contribution to the TDM Program (as provided herein), shall be included in all initial and subsequent purchase documents.
- L. Enforcement. If the TPM fails to timely submit a report to FCDOT as required by this Proffer, the TPM will have sixty (60) days within which to cure such violation. If after such sixty (60) day period the TPM has not submitted the delinquent report, then the AG shall be subject to a penalty of \$100 per day not to exceed \$36,500 for any one incident. Such penalty shall be payable to Fairfax County to be used for multimodal, transit,

transportation, or congestion management improvements within the vicinity of the Subject Property, or with the TPM's approval, for other TDM-related improvements or programs within Tysons Corner.

79. Transportation Demand Management for Retail/Hotel Uses. As provided in the above Proffer, certain components of the TDM Plan are applicable to and will benefit the proposed Retail/Hotel Uses on the Subject Property. Therefore, the Applicant will provide an additional TDM program tailored to specifically serve the Retail/Hotel Uses (the "Retail/Hotel TDM Program"). In no event will penalties be assessed against any Retail/Hotel Uses, which may be established on the Subject Property.

- A. Goals of the Retail/Hotel TDM Program. Because tenants of the retail stores and hotels and their employees work hours that are atypical of the standard work day, these tenants and their employees do not necessarily travel to and from the Subject Property during peak hours. Given this, the Retail/Hotel TDM Program shall encourage retail tenants, hotel guests and the retail/hotel employees to utilize transit, carpools, walking, biking and other non-Single Occupancy Vehicle ("non-SOV") modes of transportation to travel to and from the Subject Property rather than focusing on the specific trip reductions during the weekday AM or PM peak hours.
- B. Components of the Retail/Hotel TDM Program. The Retail/Hotel TDM Program shall include, at a minimum, the components applicable to the Subject Property that are described in this Proffer and the additional components provided below. These additional components may be subsequently amended by mutual agreement between the Applicant and FCDOT. All amendments to the components of the Retail/Hotel TDM Program contained in this Proffer shall be approved by FCDOT and will not require a PCA. The Retail/Hotel TDM Program components are further described in the TDM Plan.
- C. Employee/Tenant Meetings. The TPM shall hold, at a minimum, an annual TDM meeting with the Retail store tenants and Hotel Managers, and their respective employees, to review the available transit options, changes in transit service and other relevant transit-related topics. Based on these meetings, the TPM shall work with Fairfax County to consider changes to the relevant services, such as changes to bus schedules, if such changes would provide better service to the Subject Property tenants and their employees.
- D. Regional TDM Programs. The TPM shall make information available to retail store tenants, hotel guests and the retail/hotel employees about regional TDM programs that promote alternative commuting options.

This shall include information on vanpools, carpools, guaranteed ride home and other programs offered by organizations in the Washington, D.C. Metropolitan Area.

- E. Retail/Hotel TDM Program Participation Outreach. The TPM shall endeavor in good faith to encourage participation by Retail store tenants and hotel management in the Retail/Hotel TDM Program, including the encouragement of a financial participation by such tenants through their direct offering of transit benefit programs and transit incentives to their employees. Actions taken by the TPM and property management in furtherance of this objective may include dissemination of information to, and solicitation of participation from, the tenant's in-store management and executives or officers at their headquarters offices, at appropriate intervals. The TPM shall include a report to the County with respect to the activities described in the TDM Proffer as part of the Annual Report to be filed with the County. This report shall include detailed accounts of the outreach efforts and the feedback and response from the tenants.

80. Existing or Interim Arbor Row Office Uses. Certain components of the TDM Plan are applicable to and would benefit not only the existing office or interim uses on the Subject Property but potential interim uses as well. The TPM shall make available information on those components to any existing occupied office and/or interim uses which remain or are established on Blocks A through F or any established interim uses. Such uses shall not, however, be subject to monitoring nor will penalties be assessed against those existing office or interim uses. Beginning with the first September following the issuance of a building permit for any new building on Blocks A through F, the subsequent Annual Report shall be expanded to include those new office or residential uses.

81. Intelligent Transportation Systems. To optimize safe and efficient travel in Tysons Corner, the Applicant shall incorporate and maintain a system that provides pertinent traffic and transit information that allows users to make informed travel decisions. This information shall be provided at initial occupancy of each building. The delivery of this information shall be made convenient for building occupants and visitors, such as via computer, cell phone, monitors, or similar technology. Such devices shall provide, but not be limited to, information on the following:

- A. Traffic conditions, road hazards, construction work zones, and road detours.
- B. Arrival times and delays on Metrorail, Tysons Circulator, and area bus routes.
- C. Real time parking conditions and guidance to current on-site parking vacancies, if available.

- D. Bus stops pre-wired for real-time arrivals/departures information, if available.

The Applicant shall work with FCDOT and/or the Tysons Partnership to identify sources and facilitate electronic transmittal of data. Furthermore, the Applicant shall participate in efforts to implement any future dynamic traffic management program for the Tysons area.

BICYCLE FACILITIES

82. Bicycle Parking and Storage. Bicycle racks, bike lockers, and/or bike storage areas shall be provided on each Block, with the specific amounts and locations determined at the time of FDP and finalized with site plan approval in consultation with the FCDOT Bicycle Coordinator. Bicycle racks located outside of buildings and parking garages shall be inverted U-style racks or other design approved by FCDOT. The total number of bike parking/storage spaces provided for all Blocks shall be generally consistent with the Fairfax County Policy and Guidelines for Bicycle Parking for each building or group of buildings, as determined at the time of FDP approval. Signage shall be posted on the exterior side of buildings closest to entrances to bike parking/storage space to indicate bike parking/storage.

83. Bicycle Lanes. In combination with the street and streetscape improvements identified in these Proffers, pavement and striping for on-street bicycle lanes along the Westpark Drive frontage of each respective Block and a temporary bicycle lane along the corresponding westbound frontage of Westpark Drive across from such Block, shall be provided as depicted on the CDP with the final dimension determined at the time of FDP approval. In addition, on Westbranch Drive a dedicated bicycle lane shall be provided between Westpark Drive and Tysons Boulevard in the southbound (uphill) direction only. The timing and installation of bicycle lane striping shall be subject to VDOT approval.

PARKING

84. Parking Requirements. Parking on the Subject Property shall be provided in accordance with the parking requirements for the PTC District set forth in Sect. 6-509 and Article 11 of the Zoning Ordinance, and as shown on the CDP. Tandem and valet parking shall be permitted and, subject to Board approval, shall count toward parking requirements. Tandem parking spaces may be used for residential units with two cars and in office and hotel buildings where spaces are assigned by building management. The exact number of parking spaces to be provided for each Block shall be refined with approval of the FDP and determined at the time of site plan approval based on the specific uses of each Block. If changes in the mix of uses or unit types result in parking greater than that anticipated on the CDP, the additional parking spaces shall be accommodated within the proposed parking garages, so long as the maximum height and footprints of the parking garages do not increase from that shown on the CDP. Parking at revised ratios may be provided, as may be permitted by a future amendment to the Zoning Ordinance. Optional use of revised ratios shall not require a PCA, CDPA or FDPA, provided

there is no increase in the size or height of above-grade parking garages beyond minor adjustments to what is shown on the CDP.

85. On-Street Parking Spaces on Private Streets. On-street parking may be provided on the private streets to meet the parking requirements of the Zoning Ordinance, so long as such spaces are striped and meet the dimension requirements of the PFM, subject to receiving approval of any necessary waivers and/or modifications, if any. Parking on private streets may be restricted through appropriate signage or such other means as determined appropriate by the Applicant as to their respective Blocks, and on-street parking spaces along any private streets and future public streets prior to dedication, that otherwise are not required to satisfy the parking requirements may be used as temporary or short term parking, car-sharing parking and/or similar uses.

86. On-Street Parking Spaces on Public Streets. On-street parking spaces along the public street frontages associated with each respective Block may be constructed as generally shown on the CDP and as may be adjusted at the time of FDP approval. If requested by the County and/or VDOT, signs shall be installed that restrict the use of those public on-street parking spaces. Public on-street parking spaces would be in addition to the total number of required parking spaces to be provided for each Block. Notwithstanding the notes on the CDP, the designation and/or restriction of on-street parking spaces, including the location of handicapped spaces along Westpark Drive and Westbranch Drive, shall be determined in consultation with VDOT and FCDOT at the time of site plan approval for each respective Block.

87. Parking Restrictions. Based on tenant requirements, vehicular access and travel between the parking garages on Blocks B and C may be restricted by the Applicant, so long as Block C can maintain access through the Block B garage to Westbranch Drive. The Block D parking garage will not be connected with adjacent parking garages on other Blocks but will connect to the building on Block D. Block A may have separate parking garages for Sub-Blocks A-1 and A-2 that are not connected. All Blocks may provide gated/restricted parking within the parking garages on the respective Blocks. If gates are provided in any of the Block A through Block F parking garages, then such gates should be located to provide sufficient stacking capacity within the parking garage to prevent vehicles from stacking onto public roads.

88. Temporary Trees on Interim Surface Parking Lots. Existing surface parking lots may be used for interim parking prior to replacement with parking garages or buildings and, in the event that such parking areas are not being used for construction parking or staging or remain undeveloped (except for parking) for more than eighteen (18) months, then temporary street trees shall be planted in existing grass areas along the perimeter of such lots at a minimum size of 2.0 inches in caliper approximately every 50 feet, to the extent feasible as determined by UFMD based on existing conditions and utility easements. This interim street tree planting shall not be required to meet the minimum planting width/area standard for permanent street trees, subject to Board approval. No interior parking lot landscaping shall be required nor provided for these interim surface lots, subject to the Board's approval of a waiver.

89. Unbundled Parking for Residential Uses. All for-sale residential units must be offered exclusive of parking (i.e., at a separate cost). All leases for residential units shall be offered exclusive of parking.

90. Paid Parking for Non-Residential Uses. The Applicant may charge for parking on their respective Blocks, on a per-space basis, at rates that the Applicant deems to be market-competitive. At its sole option, the Applicant may elect to charge for parking within some or all of the parking decks associated with commercial Blocks and on portions of the street network that are privately owned.

AFFORDABLE/WORKFORCE HOUSING

91. Affordable Dwelling Units. If required by the provisions of Part 8 of Article 2 of the Zoning Ordinance, Affordable Dwelling Units ("ADUs") shall be provided for Block A and/or Block E, as applicable, pursuant to such provisions unless modified by the ADU Advisory Board.

92. Workforce Dwelling Units. For-sale and/or rental housing units shall be provided within residential buildings in accordance with the Board's Tysons Corner Urban Center Workforce Dwelling Unit Administrative Policy Guidelines dated June 22, 2010. Workforce Dwelling Units ("WDUs") shall be provided such that the total number of ADUs, if any, plus the total number of WDUs results in twenty percent (20%) of the total residential units constructed on Block A and Block E, respectively. The 20% applies to the total number of dwelling units to be constructed on the subject site, respectively; however, any units created with workforce housing bonus floor area shall be excluded from the 20% WDU calculation (e.g., if 500 total units are to be constructed, 84 WDUs/ADUs would be required, based on the calculation of $500/1.20 = 417$ base units $\times .20 = 84$ WDUs/ADUs). If ADUs are provided in any residential building, both the ADUs and the ADU bonus units shall be deducted from the total number of dwelling units on which the WDU calculation is based.

- A. The WDUs generated by each residential building shall be provided within such building; however, the WDUs may be consolidated into one or more buildings on a Block, and thereby increase the number of WDUs in one or more buildings beyond twenty percent (20%) with a corresponding decrease in the number of WDUs in the other buildings. The WDUs in each building, if any, shall have a bedroom mix roughly proportional to that provided in the market rate units in such building. Additionally, in the event that parking spaces are offered to be made available for lease to individual market rate dwelling units, at least one (1) parking space shall be made available for lease by each ADU and/or WDU in the subject Block.
- B. Notwithstanding the foregoing, should the Board's policies related to WDUs in Tysons Corner be amended, the Applicant reserves the right, in

their sole discretion as to their respective Blocks, to opt into the new policies, in part or in whole, without the need for a PCA or CDPA and, if an Applicant so opts into any such new policies, the provisions of this Proffer which relate to the new policies of the Board which the Applicant has elected to opt into shall no longer be effective. Furthermore, the Applicant reserves the right as to their respective Blocks to enter into a separate binding written agreement with the appropriate County agency as to the terms and conditions of the administration of the WDUs. Such an agreement shall be on terms mutually acceptable to the Applicant and the County and may occur any time after the approval of this Rezoning. Neither the Board nor the County shall be obligated to execute such an agreement. If such an agreement is executed by all applicable parties, then the WDUs shall be administered solely in accordance with such agreement and the provisions of this Proffer as it applies to WDUs shall become null and void. Such an agreement and any modifications thereto, or an appropriate memorandum thereof, shall be recorded in the land records of the County.

93. Office and Hotel Contributions toward Affordable/Workforce Housing in Tysons Corner. One of the following two options may be chosen by the Applicant for non-residential uses' contributions toward the provision of affordable and/or workforce housing within Tysons Corner. This contribution shall be made to the Board, be deposited in a specific fund to be used solely for this purpose within Tysons Corner and shall be payable prior to the issuance of the initial Non-RUP for each new non-residential building on each respective Block, excluding retail/services uses and public uses. The contributions shall consist of either (i) a one-time contribution of \$3.00 for each square foot of office or hotel GFA, excluding retail/services uses and public uses, or (ii) an annual contribution of \$0.25 for each square foot of non-residential GFA, excluding retail/services uses and public uses and continuing for a total of sixteen (16) years.

STORMWATER MANAGEMENT

94. Stormwater Management. Stormwater management (SWM) measures for the Subject Property shall be designed with the goal of protecting the downstream receiving waters in the Tysons Corner area from further degradation while providing sufficient controls to proportionately improve the condition of such receiving waters. Stormwater detention and Best Management Practices (BMPs) shall be provided in an appropriate system, including but not limited to, underground detention vaults, LID facilities, infiltration trenches, and existing off-site stormwater management facilities as generally set forth on the CDP (collectively, the "SWM Facilities"). The specific SWM Facilities shall be identified at the time of FDP approval and subsequent site plan approval, as may be approved by DPWES. Each FDP shall include the possible locations and preliminary design of the SWM Facilities, including the access points to underground vaults. For the purposes of this Proffer, references to "current LEED requirements" shall be defined as the version of LEED under which each building is anticipated to attain

certification. At the time of each FDP submission, calculations shall be provided showing the proposed volume reductions for the subject Block, and the Applicant shall work cooperatively with DPWES and DPZ to ensure that the target reuse volume identified on the FDP is captured and the first inch of rainfall for the subject Block is retained or reused to the maximum extent practicable. This requirement may be met on an individual Block basis or based upon the total area of the Subject Property.

- A. The SWM Facilities shall be designed to accommodate not just the pre-developed (existing) peak release rates for the subject Block, but also strive to preserve and/or improve the pre-developed (existing) runoff volumes as contemplated within current LEED requirements, depending on the existing impervious condition. Stormwater management plans for each Block shall achieve at a minimum the stormwater management design credits for LEED (provided such LEED stormwater credit does not include a mandatory drawdown requirement that conflicts with other aspects of this Proffer) and retain on-site and/or seek to reuse the first inch of rainfall to the extent practicable during final design of each building in such Block, per the calculations provided on the CDP. While it is anticipated that compliance with the Comprehensive Plan goal of retaining and/or reusing the first one-one-inch will be determined by the retention credits for the stormwater control measures provided on the CDP and the FDPs, the Applicant reserves the right to utilize any combination of LID (existing and future) measures to meet this goal, subject to the review and approval of DPWES at the time of site plan.
- B. Site plans for each Block shall make use of certain LID techniques that will aid in runoff volume reduction and/or promote stormwater reuse throughout the Subject Property. LID techniques may include, but not be limited to, green roofs, tree box filters, pervious hardscapes/streetscapes, bioretention, vegetated swales, infiltration, and stormwater reuse for landscape irrigation and air conditioning unit cooling, as determined by the Applicant for their respective Blocks, in their sole discretion.
- C. At the time of each site plan submission, calculations shall be provided showing the proposed volume reductions for the subject Block, and the Applicant shall work cooperatively with DPWES and DPZ to ensure that the target reuse volume identified on the FDP is captured to the maximum extent practicable. This requirement may be met on an individual Block basis or based upon the total area of the Subject Property.

INTERIOR NOISE ATTENUATION FOR RESIDENTIAL AND HOTEL USES

95. Residential and Hotel Interior Noise Level. The Applicant shall reduce the interior DNL to no more 45 dBA for residential and hotel buildings on the Subject Property. At the time of building plan application for the full shell building permit for each residential or hotel building, the Applicant shall submit to the Chief of the Environment and Development Review Branch of DPZ (the "E&D Chief"), for approval, and to DPWES, for information only, an acoustical study prepared by a qualified acoustical consultant (the "Indoor Noise Study") addressing indoor noise levels, including proposed noise attenuation measures and proposed materials to ensure compliance with the interior DNL limit of 45 dBA. The Applicant shall not obtain full-shell building permits until the E&D Chief has approved the applicable Indoor Noise Study, provided that a failure by the E&D Chief to review and respond to the Applicant within 60 days of receipt of the Indoor Noise Study shall be deemed approval of such study.

EQC, RPA AND TREE PRESERVATION WITHIN SUB-BLOCK A-1

96. Environmental Quality Corridor ("EQC") Boundary. The EQC boundary shall be delineated and appropriately labeled on the site plan and is inclusive within the Resource Protection Area boundary referenced below.

97. Resource Protection Area ("RPA") Boundary. Within Sub-Block A-1, the limits of clearing and grading shown along the RPA boundary shall be strictly observed and enforced. With each and every site plan submission that includes Sub-Block A-1, the Phase 1 and 2 Erosion and Sediment ("E&S") control plans and associated narrative shall require the installation of tree protection fencing with signage and super silt fence along the limits of clearing and grading that abut the RPA boundary. The only authorized encroachments into the RPA are those depicted on this plan and set forth in these Proffers, subject to approval of a Water Quality Impact Assessment and those allowed by, or exempt from, the Chesapeake Bay Preservation Ordinance ("CBPO") as approved by DPWES. The Applicant shall be responsible for the means and methods to ensure that building construction does not encroach into the RPA. Any unauthorized encroachment into, or disturbance of, the RPA is considered a violation of the CBPO and is subject to the penalties in Article 9 (violations and penalties) of such Ordinance.

98. Tree Preservation. A tree preservation plan and narrative for Sub-Block A-1 shall be submitted as part of the first and all subsequent site plan submissions for Sub-Block A-1. Such tree preservation plan and narrative shall be prepared by a Certified Arborist or a Registered Consulting Arborist, and shall be subject to the review and approval of the UFMD. Such tree preservation plan shall include a tree inventory that identifies the location, species, critical root zone, size, crown spread and condition analysis percentage rating for all individual trees that are located within 25 feet of either side of the limits of clearing and grading, and have trunks 12 inches in diameter and greater (measured at 4½ -feet from the base of the trunk or as otherwise allowed in the latest edition of the Guide for Plant Appraisal published by the International Society of Arboriculture), whether on-site or off-site or living or dead. Such tree preservation plan shall provide for the preservation of those areas shown for tree preservation,

those areas outside of the limits of clearing and grading shown on the CDP and those additional areas in which trees can be preserved as a result of final engineering. Such tree preservation plan and narrative shall include all items specified in PFM Sect. 12-0507 and Sect. 12-0509. Specific tree preservation activities that will maximize the survivability of any tree identified to be preserved, such as: crown pruning, root pruning, mulching, fertilization, and others as necessary, shall be included in the plan.

99. Tree Preservation Walk-Through. In connection with redevelopment of Sub-Block A-1 pursuant to the previous paragraph, the services of a certified arborist or Registered Consulting Arborist shall be retained and the limits of clearing and grading shall be marked with a continuous line of flagging prior to a pre-construction walk-through meeting. During the tree preservation pre-construction walk-through meeting, the certified arborist or landscape architect shall walk the limits of clearing and grading with a UFMD representative to determine where adjustments to the clearing limits can be made to increase the area of tree preservation without adversely impacting the buildings and related improvements and/or to increase the survivability of trees at the edge of the limits of clearing and grading, and such adjustment shall be implemented. Trees that are identified as dead or dying may be removed as part of the clearing operation. Any tree that is so designated shall be removed using a chain saw, and such removal shall be accomplished in a manner that avoids damage to surrounding trees and associated understory vegetation. If a stump must be removed, this shall be done using a stump-grinding machine in a manner causing as little disturbance as possible to adjacent trees and associated understory vegetation and soil conditions.

100. Limits of Clearing and Grading. Construction on Sub-Block A-1 shall conform with the limits of clearing and grading as shown on the CDP, subject to allowances provided in these Proffers and for the installation of utilities, public improvements (i.e. roads, streetscapes, entrances, sidewalks, degraded soil and slope conditions) and/or trails as determined necessary by the Director of DPWES, as described herein. If it is determined necessary to install utilities and/or trails in areas beyond the limits of clearing and grading for Sub-Block A-1 as shown on the CDP, such utilities and/or trails shall be located in the least disruptive manner necessary as determined by the UFMD. A replanting plan shall be developed and implemented, subject to approval by the UFMD, for any areas on Sub-Block A-1 beyond the limits of clearing and grading that must be disturbed for such trails, utilities, roads or similar uses, if any such areas are identified at the time of site plan.

101. Tree Protection Fencing. All trees shown to be preserved on the tree preservation plan for Sub-Block A-1 shall be protected by tree protection fencing. Tree protection fencing in the form of four (4) foot high, fourteen (14) gauge welded wire attached to six (6) foot steel posts driven eighteen (18) inches into the ground and placed no further than ten (10) feet apart or, super silt fence to the extent that required trenching for super silt fence does not sever or wound compression roots which can lead to structural failure and/or uprooting of trees, shall be erected at the limits of clearing and grading as shown on the demolition, and phase I & II erosion and sediment control sheets, as may be modified by the "Root Pruning" Proffer below. Tree protection fencing shall be installed after the tree preservation walk-through meeting but prior to

any clearing and grading activities, including the demolition of any existing structures. The installation of all tree protection fencing shall be performed under the supervision of a certified arborist, and accomplished in a manner that does not harm existing vegetation that is to be preserved. Three (3) days prior to the commencement of any clearing, grading or demolition activities, but subsequent to the installation of the tree protection devices, the UFMD shall be notified and given the opportunity to inspect the site to ensure that all tree protection devices have been correctly installed. If it is determined that the fencing has not been installed correctly, no grading or construction activities shall occur until the fencing is installed correctly, as determined by the UFMD.

102. Root Pruning. Root pruning, as needed to comply with the tree preservation requirements applicable to Sub-Block A-1, shall be performed. All treatments shall be clearly identified, labeled, and detailed on the erosion and sediment control sheets of the site plan submission for Sub-Block A-1. The details for these treatments shall be reviewed and approved by the UFMD, accomplished in a manner that protects affected and adjacent vegetation to be preserved, and may include, but not be limited to the following:

- A. Root pruning shall be done with a trencher or vibratory plow to a depth of 18 inches.
- B. Root pruning shall take place prior to any clearing and grading, or demolition of structures.
- C. Root pruning shall be conducted under the supervision of a certified arborist.
- D. A UFMD representative shall be informed when all root pruning and tree protection fence installation is completed.

103. Tree Appraisal. For Sub-Block A-1 only, the Applicant shall retain a professional arborist with experience in plant appraisal, to determine the replacement value of all trees 12 inches in diameter or greater located within twenty-five (25) feet of the outer limits of disturbance that are shown to be saved on the Tree Preservation Plan. These trees and their value shall be identified on the Tree Preservation Plan at the time of the first submission of the respective site plan(s). The replacement value shall take into consideration the age, size and condition of these trees and shall be determined by the so-called "Trunk Formula Method" contained in the latest edition of the Guide for Plan Appraisal published by the International Society of Arboriculture, subject to review and approval by UFMD.

At the time of the respective site plan approvals, the Applicant shall post a cash bond, a letter of credit payable to the County of Fairfax or a surety bond from a financial institution licensed to do business in Virginia, to ensure preservation and/or replacement of the trees for which a tree value has been determined in accordance with the paragraph above (the "Bonded Trees") that die or are dying due to unauthorized construction activities. The letter of credit, cash deposit or surety bond shall be equal to 50% of the replacement value of the Bonded Trees.

At any time prior to final bond release for the improvements on the Application Property constructed adjacent to the respective tree save areas, should any Bonded Trees die, be removed, or are determined to be dying by UFMD due to unauthorized construction activities, the Applicant shall replace such trees at its expense. The replacement trees shall be a minimum three (3) inch caliper in size, and equivalent species and/or canopy cover as approved by UFMD. In addition to this replacement obligation, the Applicant shall also make a payment equal to the value of any Bonded Tree that is dead or dying or improperly removed due to unauthorized construction activity. This payment shall be determined based on the Trunk Formula Method and paid to a fund established by the County for furtherance of tree preservation objectives. Upon release of the bond for the improvements on the Application Property constructed adjacent to the respective tree save areas, any amount remaining in the tree bonds required by this Proffer shall be returned/released to the Applicant.

104. Demolition of Existing Structures. Any demolition of existing structures and related improvements for Sub-Block A-1 in areas outside of the limits of clearing and grading shown on the CDP for Sub-Block A-1 shall be done by hand without heavy equipment to the extent practicable and conducted in a manner that does not impact individual trees and/or groups of trees that are to be preserved as reviewed and approved by the UFMD.

105. Site Monitoring. During any clearing or tree/vegetation/structure removal within the tree preservation area in Sub-Block A-1, a representative of the Applicant shall be present to monitor the process and ensure that the activities are conducted in accordance with these Proffers and as approved by the UFMD. The services of a certified arborist or Registered Consulting Arborist shall be retained to monitor all construction and demolition work and tree preservation efforts in order to ensure conformance with these Proffers and the UFMD approvals. The monitoring schedule shall be described in the tree preservation plan, and reviewed and approved by the UFMD.

MISCELLANEOUS

106. Bird-Friendly Design. At the time of site plan submission for each respective Block, the Applicant for that site plan shall study whether bird-friendly design strategies may be employed to reduce bird injury and death due to in-flight collisions with building and/or building elements. The strategies to be studied should make the building visible to birds in flight and reduce reflections that distract or confuse birds through the use of appropriate glazing treatments or architectural elements, such as using color, texture, opacity, patterns, louvers, screens, interior window treatments, or ultraviolet materials that are visible to birds. In addition, the Applicant shall study whether interior lighting should be reduced and direct lighting which is visible from the exterior should be eliminated to reduce a building's attractiveness to birds flying at night. The Applicant shall describe the results of the studies of such bird-friendly design strategies, and to what extent any of the strategies will be implemented, in a narrative that is provided at the time of building permit issuance. To the extent strategies are identified, but not implemented, the narrative shall describe the reasons for the exclusion of such strategies.

107. Tree Preservation and Planting Fund Contribution. To promote enhancement of the Fairfax County Tree Canopy through growth of trees on private and public land, the Applicant shall make a one-time, total contribution payable at the time of the first site plan approval in the amount of \$.002 (two tenths of a cent) per square foot of the maximum proposed GFA as stated in Proffer 9 to the Fairfax County Tree Preservation and Planting Fund ("TPPF"). This donation to the TPPF shall supply tree saplings, volunteer support, and information to landowners with which they can enhance tree canopy on their property. Additionally, this donation shall enable educational activities in FCPS, should they choose to participate.

108. Delay. Notwithstanding the foregoing, upon demonstration that, despite diligent efforts or due to factors beyond an Applicant's control, proffered improvements such as, but not limited to, the required transportation, publicly-accessible park areas and athletic fields, trail connections, off-site easements, have been delayed (due to, but not limited to, an inability to secure necessary permission for utility relocations and/or VDOT approval for traffic signals, necessary easements and site plan approval) beyond the timeframes specified, the Zoning Administrator may agree to a later date for completion of such improvements.

109. Tyson's Partnership. The Applicant, and their respective successors and assigns, shall become members of the Tysons Partnership or its residential equivalent no later than issuance of the first RUP or Non-RUP for their Block.

110. Metrorail Tax District Buyout for Certain Residential Uses. At least sixty (60) days prior to recording any condominium documents that would change the use of one or more buildings on Block A or Block E from a multi-unit residential real property that is primarily leased or rented to residential tenants or other occupants by an owner who is engaged in such a business which is taxable for purposes of the now existing Phase I Dulles Rail Transportation Improvement District (the "Phase I District"), to a use that is not subject to the Phase I District tax, the Applicant shall provide a written notice to the Director of the Real Estate Division of the Fairfax County Department of Tax Administration advising that the Applicant intends to record such condominium documents for that portion of Block A or Block E, as the case may be. Prior to recording such condominium documents, the Applicant shall pay to the County a sum equal to the then-present value of Phase I District taxes based on the use of that portion of Block A or Block E, as the case may be, prior to becoming subject to the condominium that will be lost as a result of recording such condominium documents, in accordance with a formula approved by the Board.

111. Escalation in Contribution Amounts. All monetary contributions specified in these Proffers shall escalate or de-escalate, as applicable, on a yearly basis from the base month of January 2013 and change effective each January 1 thereafter, as permitted by § 15.2-2303.3 of the Code of Virginia, as amended.

112. Condemnation. To the extent off-site right-of-way and/or easements are required to construct any of the improvements described in these Proffers, and the Applicant responsible for such construction has not been able to acquire such right-of-way or easements after documented, reasonable efforts to do so, the obligation of such Applicant to construct such

improvements for which right-of-way is not available shall be contingent upon the Board acquiring such right-of-way and/or easements through its powers of eminent domain after being requested to do so by such Applicant, in writing. In the event the County elects not to use its power of condemnation to acquire those off-site rights-of-way and/or easements necessary for construction of any of the improvements described in these Proffers, then that Applicant shall escrow the costs of those improvements with the County for future implementation by FCDOT, VDOT and/or others. No Applicant shall be prevented from obtaining any land use approval (including, without limitation, PCA, CDPA, FDP, FDPA, site plan, subdivision, grading permit, building permit, and Non-RUP and RUP permits) for the Subject Property, nor from commencing construction on the Subject Property, during the pendency of any eminent domain proceedings initiated pursuant to this Proffer, nor any deferral of the County's exercise of eminent domain pursuant to this Proffer, provided that all other prerequisites for obtaining such approvals and commencing such construction provided in these Proffers have been met.

113. Successors and Assigns. These Proffers will bind and inure to the benefit of the Applicant and their successors and assigns. Each reference to "Applicant" in these Proffers shall include within its meaning and shall be binding upon the successors in interest and/or the owners from time to time of any portion of the Subject Property during the period of their ownership. Once portions of the Subject Property are sold or otherwise transferred, the associated proffers become the obligation of the purchaser or other transferee and shall no longer be binding on the seller or other transferor.

114. Counterparts. These Proffers may be executed in one or more counterparts, each of which when so executed and delivered shall be deemed an original, and all of which taken together shall constitute but one and the same instrument.

[SIGNATURES ON FOLLOWING PAGES]

APPLICANT:

CITYLINE PARTNERS LLC
Applicant and Agent for Title Owners

By: _____
Name: _____
Title: _____

CITYLINE OWNERS:

FRANKLIN 7903 WESTPARK LLC
Title Owner of Parcel 29-4-((7))-1

By: _____
Name: _____
Title: _____

GRAYSON 7913 WESTPARK LLC
Title Owner of Parcel 29-4-((7))-2

By: _____
Name: _____
Title: _____

CAMPBELL-SCOTT WESTPARK LLC
Title Owner of Parcel 29-4-((7))-3

By: _____
Name: _____
Title: _____

ESSEX 7929 WESTPARK LLC
Title Owner of Parcel 29-4-((7))-9

By: _____
Name: _____
Title: _____

FREDERICK 8003 WESTPARK LLC
Title Owner of Parcel 29-4-((7))-10

By: _____
Name: _____
Title: _____

COUNTY:

FAIRFAX COUNTY BOARD OF
SUPERVISORS, a body politic
Title Owner of Westbranch Drive Right-of-Way

By: _____
Name: Edward L. Long, Jr.
Title: County Executive

AMT:

AMT-THE ASSOCIATION FOR
MANUFACTURING TECHNOLOGY
Title Owner of Parcel 29-4-((7))-5A

By: _____
Name: _____
Title: _____

CONTRACT PURCHASER:

HOME PROPERTIES TYSONS LLC

Contract Purchaser of Parcel 29-4-((7))-10

BY: Home Properties, L.P., its sole member

BY: Home Properties, Inc., its general partner

By: _____

Name: _____

Title: _____

CONTRACT PURCHASER:

HANOVER R.S.LIMITED PARTNERSHIP

*Contract Purchaser of Parcels 29-4-((7))-1 and
29-4-((7))-2 (part)*

BY: THC Capital G.P. LLC, its sole general
partner

By: _____

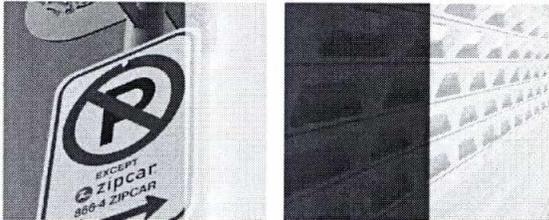
Name: _____

Title: _____



WELLS + ASSOCIATES

Transportation, Traffic and Parking Consultants



Arbor Row TDM Plan

August 2012





Arbor Row TDM Plan

Prepared by:

Robin Antonucci
Courtney Menjivar
Justin Schor
Kevin Fellin

August 2012

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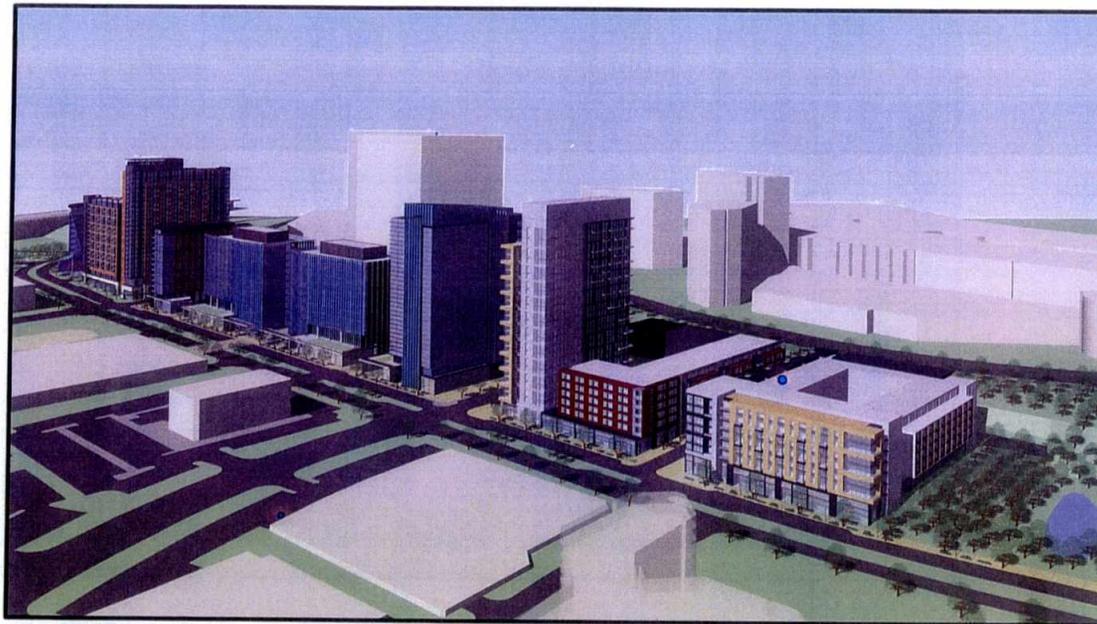
Zoning Evaluation Division

ARBOR ROW

PROVIDENCE DISTRICT FAIRFAX COUNTY, VIRGINIA

CONCEPTUAL DEVELOPMENT PLAN

RZ/CDP 2011-PR-023



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OCTOBER 5, 2012
AUGUST 29, 2012
JULY 23, 2012
MAY 25, 2012
APRIL 20, 2012
FEBRUARY 24, 2012
DECEMBER 7, 2011
JULY 22, 2011
APRIL 28, 2011

SHEET C1.0

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7.703.548.5070

ATTORNEY:
Hunton & Williams LLP
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SUITE 1700
MCLEAN, VIRGINIA 22102
7.703.714.7400

TABLE 1 - CDP - SITE TABULATIONS:

Block/ Building	Allowable Building Height (FTM (2))	Proposed Building Height/Use (Bldg./Use)	Maximum Proposed Penhouse Height (FT) (2)	Proposed Stories/Floors (1)	Use (3)	Proposed GFA by Use (4)	Proposed Maximum Building GFA (M2)	Dwelling Units (5)(2)	Hotel Rooms (5)	Required Parking 1/4 - 1/2 mile (Per Unit or 1000 GFA) Min. Max.	Total Required Parking (5) Min. Max.	Parking Provided (6)	Proposed Parking Ratio Per Use	Block Land Area (SF)	Maximum Proposed GFA (4)	Maximum FAR
Block A																
A1	175'-225'	78'-00'	NA	8 (11)	Residential	278,400	278,400	450-604		1.1	1.7	485-763	780-1180	902	1.3/ D.U.	
A2	175'-225'	78'-00'	NA	22	Residential	107,395	465,390			0	6	0	18	40	(7)	
Block B																
B	175'-225'	175'-225'	30'	13-17	Retail/Services	8,507	392,785			0	2.2	0	33	50	(7)	
Block C																
C1	175'-225'	105'-180'	30'	8-13	Retail/Services	17,500	275,650			0	0	0	21	34		
C2	175'-225'	105'-180'	30'	8-13	Retail/Services	12,500	275,650			0	0	0	28	149	(7)	
Block D																
D	175'-225'	108'-00'	22'	9-17	Hotel	162,000	170,000	250		0	1.05	0	263	184	78/room	
Block E																
E	175'-225'	270'-300'	NA	20 & 27	Residential	7,000 (72)	516,800	470-680		1.1	1.7	475-528	731-808	712	1.5/6 D.U.	
Block F																
F	175'-225'	135'-170'	30'	10	Office	197,844	200,000			0	2.2	0	435	435	2,201,800 GFA	
TOTAL																
							2,575,680	880 - 1174	250				4180	844,813 (5)	2,575,680(5)	3.05

- Individual building heights and number of floors/stories shown are conceptual and may be changed by the Block Owners provided that the building height demonstrated on this CDP (either alternate and/or proposed) for each building is not exceeded. (Refer to Architectural Site Sections for Average Grade Elevations)
 - Building Height: Within Residential Blocks the building height includes penthouse and mechanical stories. Within Non-Residential Blocks (Office/Commercial/Hotel) the building height does not include penthouses. Penthouses may be up to 30 feet high.
 - Retail and/or Service uses may include a variety of commercial and community type uses (see Item # 34 sheet C2.0) as determined by the Block Owners at the time of final site plan.
 - The square footage for individual uses, buildings and blocks shown is conceptual. The Block Owners reserve the right to increase, decrease or transfer square footage between and within uses (e.g. office, residential, retail), buildings and blocks provided the total overall FAR is not exceeded. See Proffers.
 - Number of dwelling units/bedrooms/typical rooms may be changed and will be determined at the time of FDP and final site plan.
 - Parking required and provided is estimated. Number of required parking spaces may be changed by the Block Owners based on the final Dwelling Unit count, bedroom mix, and final office, building uses, and final GFA, and will be determined at the time of final site plan. The Block Owners reserve the right to provide more or less parking at the time of final site plan provided the allowable parking rates set forth in Section 6-500 are not exceeded at the time of overall development.
 - Per Section 6-500.8 (1), the first 5,000 square feet of ground floor retail has been subtracted prior to retail parking calculation. Retail parking based on 8 Spaces per 1,000 SF (after the first 5,000 SF). Other uses may be provided per Item #24 on sheet C.2.0.
 - Includes square footage reserved from proposed Right of Way Dedication of Westpark Drive as allowed per Z.O. Section 2-308.4. See Right of Way Density Allocation Tabulation Table 4.
 - Density includes 200,778 GFA for Superlative contribution for public facilities from Hanover Parcel (TM # 29-2-0110-02) as recommended by the Tyson Urban Center Comprehensive Plan. See Residential Density Tabulation Table 6.
 - Includes square footage of future potential right-of-way vacation/abandonment of Westpark Drive. See Right of Way Density Allocation Tabulation Table 4.
- (1) Up to six (6) stories including possible mezzanine.
 (12) In Residential Blocks, "Retail/Service" uses may be permitted to up to ten (10) "Live-Work Units" provided within each respective Block in accordance with the Proffers. In the event this conversion occurs, a maximum of 704 total dwelling units shall be permitted within Block A.
 (13) Proposed minimum GFA shall be My percent (20%) of proposed maximum GFA, in accordance with the proffers.

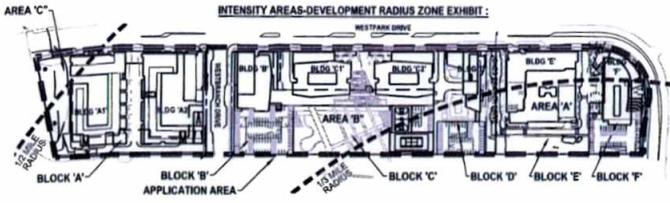


TABLE 3 - WESTPARK OFFICE ALLOCATION TABULATION:

Par. No.	New Land Use	Site	Block Office GFA (1)	Sub/Full/Partial and/or Proposed Office GFA
0204 W/ 0001A1	A-1	Impassanock	138,540	138,540
0204 W/ 0001A2	A-1	Wanam	138,540	138,540
0204 W/ 0001A3	A-1	Wanam	175,550	175,550
0204 W/ 0001A4	A-3	Albion	111,430	111,430
0204 W/ 0001A5	A-3	Albion	74,540	74,540
0204 W/ 0001B	A-3	Wanam	72,660	72,660
0204 W/ 0001C	A-3	Wanam	53,900	53,900
0204 W/ 0001A	A-3	Wanam	111,430	111,430
0204 W/ 0001D	A-3	Lansdale	111,430	111,430
0204 W/ 0001E	A-3	Wanam	137,800	137,800
0204 W/ 0001G	A-3	JAMT	107,840	107,840
0204 W/ 0001H	D-2	Westpark Phase 4	385,300 (2)	385,300
0204 W/ 0001I	F	Wanam	204,331	204,331
0204 W/ 0001J	F	Wanam	173,492	173,492
0204 W/ 0001K	F	Wanam	0	0
0204 W/ 0001L	G	Wanam	178,830	178,830
0204 W/ 0001M	G	Frederick	74,540	74,540
TOTAL:			2,705,341	2,705,341

Notes:
 (1) Block office GFA is based on Exhibit E within PCA 88-0-005-7 Statement of Justification, subsection 05 "GFA Built, Cellular Not Included".
 (2) Westpark Phase 4: GFA obtained from Site Plan # 9598-07-002-8 and PCA 88-0-005-7 associated with this application.

TABLE 2 - INTENSITY AREAS-DEVELOPMENT RADIUS ZONE TABULATION:

INTENSITY RING AREA	AREA 'A' (1/4 MILE)	AREA 'B' (1/2 MILE TO 3/2 MILE)	AREA 'C' (1/2 MILE)	TOTAL
Area Average	280,079 SF (1.53 AC)	596,122 SF (13.50 AC) (3)	14,617 SF (0.34 AC)	844,813 SF (19.40 AC)
COMPREHENSIVE PLAN (DISTRICT RECOMMENDATIONS)	2.0 F.A.R. 480,150 GFA	1.5 F.A.R. 1,180,251 GFA	1.5 F.A.R. 21,918 GFA	1,682,319 GFA
	Proposed GFA	Proposed Development (2)	Proposed GFA	
CDP PLAN		Bldg A1(A): 656,670 GFA (1) Bldg B: 392,785 GFA Bldg C1(C): 363,300 GFA Bldg C: 136,000 GFA Bldg D: 373,520 GFA (1) Bldg E: 143,943 GFA	Bldg A3: 46,180 GFA (1)	
TOTAL GFA	320,863 GFA	2,296,692 GFA	48,180 GFA	2,575,685 GFA (1)
AREA A,B				3.05

(1) GFA includes superlative GFA for public facilities contribution allocated from Hanover Site (TM # 29-2-0110-02) as recommended by the Tyson Urban Center Comprehensive Plan. See Residential Density Tabulation Table 6.
 (2) Final building square footage assignments are subject to change by the applicant/block owners at the time of FDP and Final Site Plan. See Proffers.
 (3) Includes square footage of future potential right-of-way vacation/abandonment of Westpark Drive.

TABLE 4 - CDP - RIGHT OF WAY DENSITY ALLOCATION TABULATION:

Existing Site Area	Proposed ROW - Dedication	Proposed ROW - Vacation
Westpark Drive	+/- 32,588 Sq. Ft.	+/- 0.75 AC
West Branch Drive	+/- 872 Sq. Ft.	+/- 0.02 AC
Area of ROW Dedication Used for Density Purposes	+/- 33,460 Sq. Ft.	+/- 0.77 AC
Proposed ROW - Vacation		
West Branch Drive	+/- 3,428 Sq. Ft.	+/- 0.08 AC
Area of ROW Vacation Used for Density Purposes	+/- 3,428 Sq. Ft.	+/- 0.08 AC
Total Area for Density Purpose:	84,813 Sq. Ft. (1)	0.85 AC (1)

(1) Includes square footage and density credit reserved from proposed ROW "Dedication" and "Vacation/Abandonment" (as allowed per Z.O. Section 2-308.4). Final area of dedication and vacation/abandonment to be determined at time of final site plan.

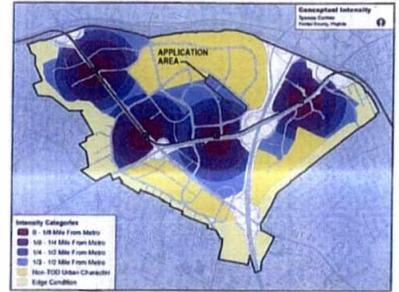


TABLE 5 - LAND USE RATIO TABULATION:

Use	GFA (1)	Percentage of Total	FAR
Office	1,108,429	43.0%	
Residential	1,248,000	48.4%	
Hotel	163,000	6.3%	
Retail/Services	60,000	2.3%	
Overall Total	2,575,685	100.0%	3.05

(1) GFA for individual uses is conceptual. Applicant reserves the right to transfer GFA between buildings and uses provided the overall proposed FAR is not exceeded. Refer to Proffers.

TABLE 6: RESIDENTIAL DENSITY TABULATION

1,682,319 GFA AVAILABLE OVERALL SITE AREA GFA PER COMP PLAN (Table 2)

- 1,309,424 GFA (PROPOSED OFFICE BLOCKS B-C & F)
- 163,000 GFA (PROPOSED HOTEL BLOCKS A-F)
- 36,895 GFA (PROPOSED RETAIL BLOCKS A-F)

= 310,095 GFA AVAILABLE RESIDENTIAL GFA "ON-SITE"

- + 518,283 GFA AVAILABLE FROM HANOVER SITE (245,522 SF @ 1.5 F.A.R.)
- + 871,518 GFA "BASE" RESIDENTIAL AVAILABLE (353,235 SF + 518,283 SF)
- + 174,304 GFA WVDU BONUS (871,518 SF @ 20%)

= 1,063,622 GFA TOTAL RESIDENTIAL AVAILABLE

- + 200,778 GFA REQUESTED FROM SUPERLATIVE CONTRIBUTION

= 1,264,400 GFA TOTAL RESIDENTIAL PROPOSED (BLOCKS A and E)

Bowman
 PARKERBODRIGUEZ, INC.
 147 North Union St., #1200
 Raleigh, North Carolina 27601
 Phone: 703.548.8070
 Fax: 703.548.8100
 www.bowmanparker.com

Cityline PARTNERS
 A LANDSCAPE OF
 DLT/Floor Elevation Capital Partners

ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS

07/27/11	PR COUNTY COMMENTS
07/27/11	PR COUNTY COMMENTS
07/24/11	PR COUNTY COMMENTS
04/29/11	REVISE PROP TABS
02/26/11	PR COUNTY COMMENTS
01/23/11	PR COUNTY COMMENTS
08/29/10	PR COUNTY COMMENTS
08/29/10	PR COUNTY COMMENTS
04/14/10	PR COUNTY COMMENTS
04/14/10	PR COUNTY COMMENTS

SCALE: 1" = 40'
DATE: APRIL 26, 2011
FILE NO: 7402-87-001

SHEET C2.1



County of Fairfax, Virginia

To protect and enrich the quality of life for the people, neighborhoods and diverse communities of Fairfax County

October 31, 2011

Mr. Thomas D. Finley
Executive Vice President
Cityline Partners LLC
1651 Old Meade Road, Suite 650
Tysons Corner, Virginia 22102

Dear Mr. Finley:

In response to your letter of September 12, 2011, the Fairfax County Department of Transportation (FCDOT) has determined that participation in a Consolidated Traffic Impact Analysis (CTIA) is not required for the Arbor Row rezoning applications RZ 2011-FR-23, PCA 11-2-005-07. The decision of CTIA applicability is made on a case-by-case basis. The Arbor Row development will be counted as background traffic in any future TIAs and/or CTIAs.

In the provisions of the aforementioned zoning application, FCDOT expects that site traffic prohibited by the Arbor Row redevelopment shall be accurately depicted in the TIA submitted to VDOT and FCDOT and that site traffic shall be appropriately mitigated through methods including, but not limited to: well executed site design, a robust transportation demand management (TDM) program, a mix of land uses that confound the County's Comprehensive plan, and preferential commitments.

If you have any questions, please call Dan Rathbone at (703) 877-5675 or me at (703) 877-5663.

Sincerely,

[Signature of Dan Rathbone]
Dan Rathbone
Director

cc: Dan Rathbone, FCDOT
Jeff Hermann, FCDOT
Fred Sullivan, DPZ
Jim Zank, DPZ
Matt Ladd, DPZ



Bowman CONSULTING

July 23, 2012

Mike Knapp - Director
Fairfax County Urban Forest Management Division
1300 Government Center Parkway
Fairfax, VA 22035

Re: Arbor Row Tree Preservation Target Deviation Request
RZCFHP-2011-FR-023

Dear Mr. Knapp,

This letter is in request a deviation to the Tree Preservation Target requirements for the above referenced site, Fairfax County tax assessment map numbers 0294-07-0001, 0294-07-0001, 0294-07-0001, 0294-07-0001, 0294-07-0010 & 0294-07-0001A. The subject property lies within Sub-Area Two (South West Park) of the North Sub-District of the Tysons Canal 123 District of the Tysons Corner Urban Center Planning District within Area II of the Fairfax County Comprehensive Plan. The subject property is currently zoned C-3 (Office), with portions of HC (Highway Corridor) and SC (Sign Control). Proposed zoning category is FFC.

According to the Existing Vegetation Map, prepared by Bowman Consulting Group, the property (19.32 acres) is currently covered by approximately 7.20 acres or 38% tree/brush cover. The conceptual development plan proposes to clear approximately 6.74 acres for proposed grading and construction improvements. Per the Comprehensive Plan the 10-year tree canopy goal, 10% (1.93 acres) tree cover is required for the site. This can be satisfied by tree preservation, tree planting or a combination of both. According to these numbers, the site has a tree preservation target of .23 acres (1.93 acres x 28%). Since only .20 acres of preservation credits will be taken for tree save areas to remain, a tree preservation target deviation is hereby requested.

The deviation is based on the following three allowable deviation conditions as outlined in the Fairfax County Public Facilities Manual (PFM). They are as follows:

- 1) Section 12-0408.3A(1): Meeting the Tree Preservation Target would preclude the development of uses or densities otherwise allowed by the Zoning Ordinance.
2) Section 12-0408.3A(2): Meeting the tree preservation target would require the preservation of trees that do not meet standards for health and condition and other vegetation and risk management requirements of 12-0408 et seq.
3) Section 12-0408.3A(3): Construction activities could be reasonably expected to impact existing trees or forested areas used to meet the Tree Preservation Target to the extent these would not likely survive to a healthy and structurally sound manner for a minimum of 10-years in accordance with the post-development standards for trees and forested areas provided in 12-0408 and 12-04.

Significant portions of the existing vegetation on the referenced site had been planted with the previous development of the property while other sections of the existing vegetation on the site are non-managed areas that were not cleared during the previous development process. Anticipating to save any of these mature trees would adversely impact development potential as envisioned by the Comprehensive Plan/PTC District and would result in unnecessary and unreasonable hardship to the developer. Per field observation, the many of the existing trees and shrubs proposed to be removed are in fair/poor condition, displaying undesirable health and/or structural conditions that may be hazardous to either life or property, including undesirable crown, exaggerated limbs, broken/damaged scaffold branches, girdling, etc. Per Section 12-0403.3-4, trees that do not meet pre-development standards for structural integrity and health shall not be afforded tree canopy cover credits and shall be subject to removal.

In addition, proposed grading and construction improvements (roads, structures, utility infrastructure, etc.) will significantly impact existing trees and shrubs specified to be removed. Proposed construction will cause direct physical damage to root systems and above ground portions of trees that could result in or predispose trees to structural failure and health problems. Per PFM Section 12-0403.3B, trees determined to be dead, declining, hazardous or a maintenance issue due to impacts from construction or environmental changes resulting from construction shall be subject to removal.

The basis for this deviation is warranted as a result of the site engineering necessary within this portion of the Tysons Corner Urban Center redevelopment. The Tree Preservation Target vegetation requirements cannot be fulfilled with this redevelopment. Therefore, it is requested that UPFMD deem the tree preservation requirement will be hereby satisfied with the planting of the 10-year tree canopy requirement that shall be planted with the redevelopment. Please refer to the project landscape plans.

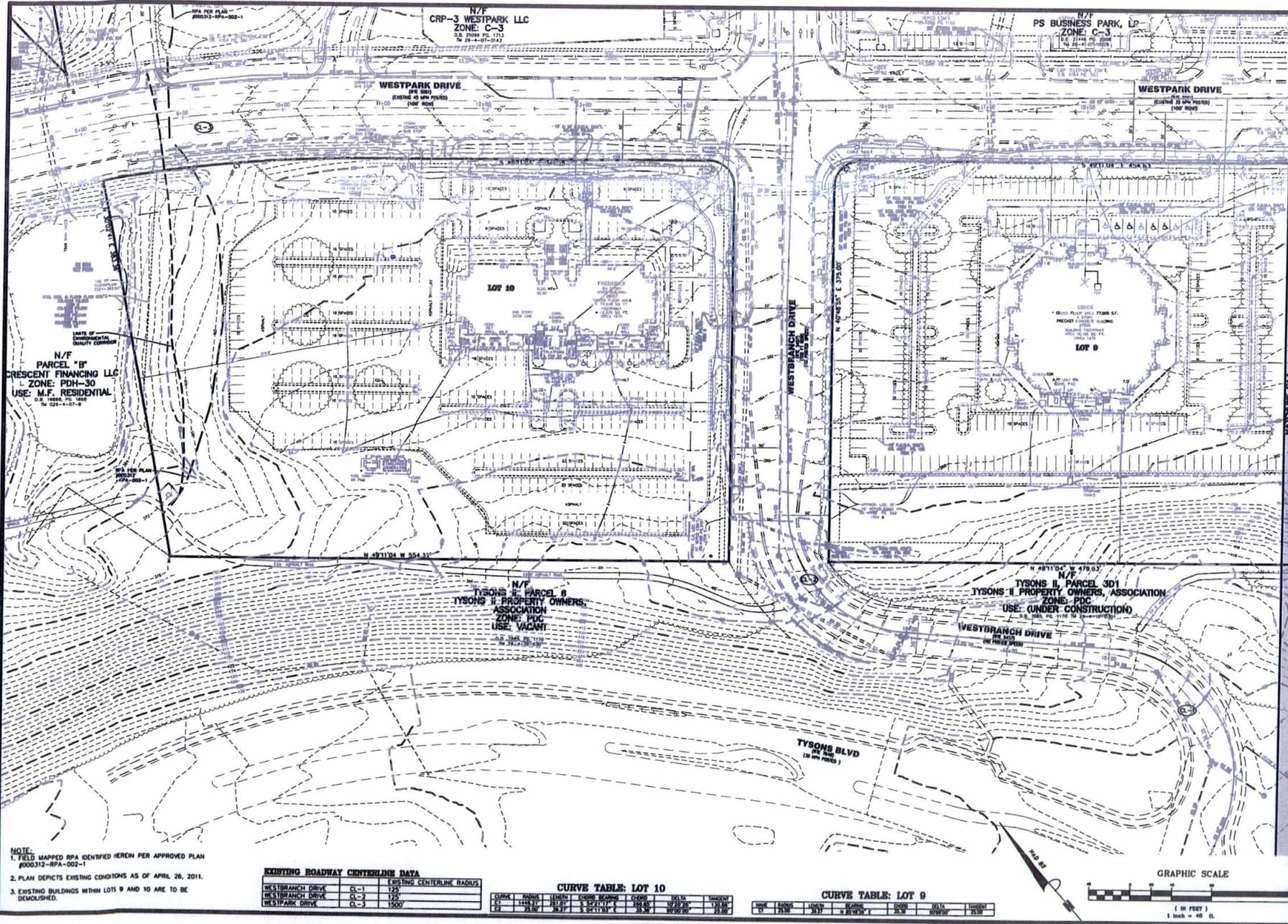
Thank you for your assistance and cooperation in this matter. Please contact me at 703-464-1000 if you should have any questions regarding this matter.

Sincerely,

[Signature of Greg Hovoy]
Greg Hovoy - Applicant Representative
R.L.A. RLA Certified Arborist, MA-4616A
Bowman Consulting Group

Vertical sidebar containing logos for Bowman Consulting, PABERRODRIGUEZ INC, WPS, Cityline PARTNERS, and a table of correspondence and plan status.

Table with columns: PLAN STATUS, DATE, PER COUNTY COMMIT. Rows show dates from 07/23/12 to 05/08/12.



NOTE:
 1. FIELD MAPPED RPA IDENTIFIED HEREIN PER APPROVED PLAN 0000312-RPA-002-1
 2. PLAN DEPICTS EXISTING CONDITIONS AS OF APRIL 26, 2011.
 3. EXISTING BUILDINGS WITHIN LOTS 9 AND 10 ARE TO BE DEMOLISHED.

EXISTING ROADWAY CENTERLINE DATA

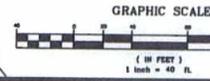
ROADWAY	CL	EXISTING CENTERLINE RADIUS
WESTBRANCH DRIVE	CL-1	125'
WESTBRANCH DRIVE	CL-2	125'
WESTPARK DRIVE	CL-3	1500'

CURVE TABLE: LOT 10

CHORD	ARC LENGTH	CHORD BEARING	DELTA	ANGULAR
CL	1448.73	S 81.67° E	98.2111°	130.88°
CL	25.56	S 27.11° E	34.36°	39.6018°

CURVE TABLE: LOT 9

CHORD	ARC LENGTH	CHORD BEARING	DELTA	ANGULAR
CL	75.90	S 27.11° E	34.36°	39.6018°



EXISTING CONDITIONS PLAN (SHEET 1 OF 2)
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

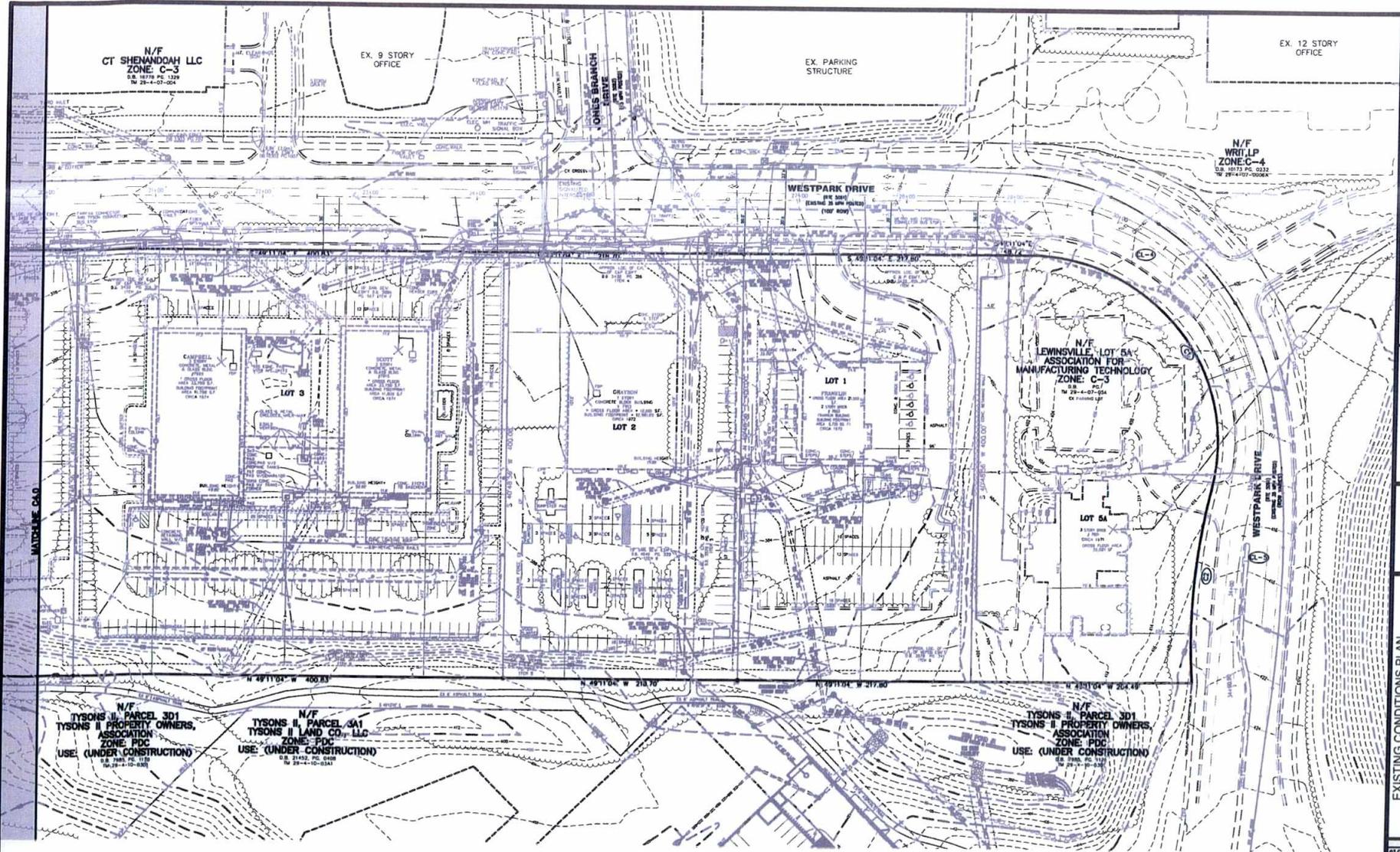
PLAN STATUS

DATE	DESCRIPTION
03/29/11	PER COUNTY COMMENTS
03/29/11	PER COUNTY COMMENTS
03/24/11	PER COUNTY COMMENTS
03/23/11	PER COUNTY COMMENTS

DATE : APRIL 26, 2011
SCALE : R11-07
JOB No.
FILE No. 7403-07-001
SHEET C4.0

Cityline WDC PARTNERS
 A Division of
 DLJ Real Estate Capital Partners

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 Alexandria, VA 22314
 703.548.3010
 Fax: 703.548.3020



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 Fax: (703) 441-0332
 www.bowman.com

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 Fairfax, VA 22031
 Phone: (703) 441-0331
 Fax: (703) 441-0332
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EXISTING CONDITIONS PLAN
 (SHEET 2 OF 2)
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS

01/29/11	PER COUNTY COMMITTEE
02/22/11	PER COUNTY COMMITTEE
03/29/11	PER COUNTY COMMITTEE
04/29/11	PER COUNTY COMMITTEE
05/27/11	PER COUNTY COMMITTEE
07/23/11	PER COUNTY COMMITTEE
08/29/11	PER COUNTY COMMITTEE
09/29/11	PER COUNTY COMMITTEE

SCALE 1" = 40'

DATE : APRIL 26, 2011
FILE No. 7403-07-001

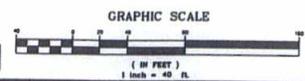
NOTE:
 1. PLAN DEPICTS EXISTING CONDITIONS AS OF APRIL 26, 2011.
 2. EXISTING BUILDING WITHIN LOTS 1, 2, 3 AND 5A ARE TO BE DEMOLISHED.

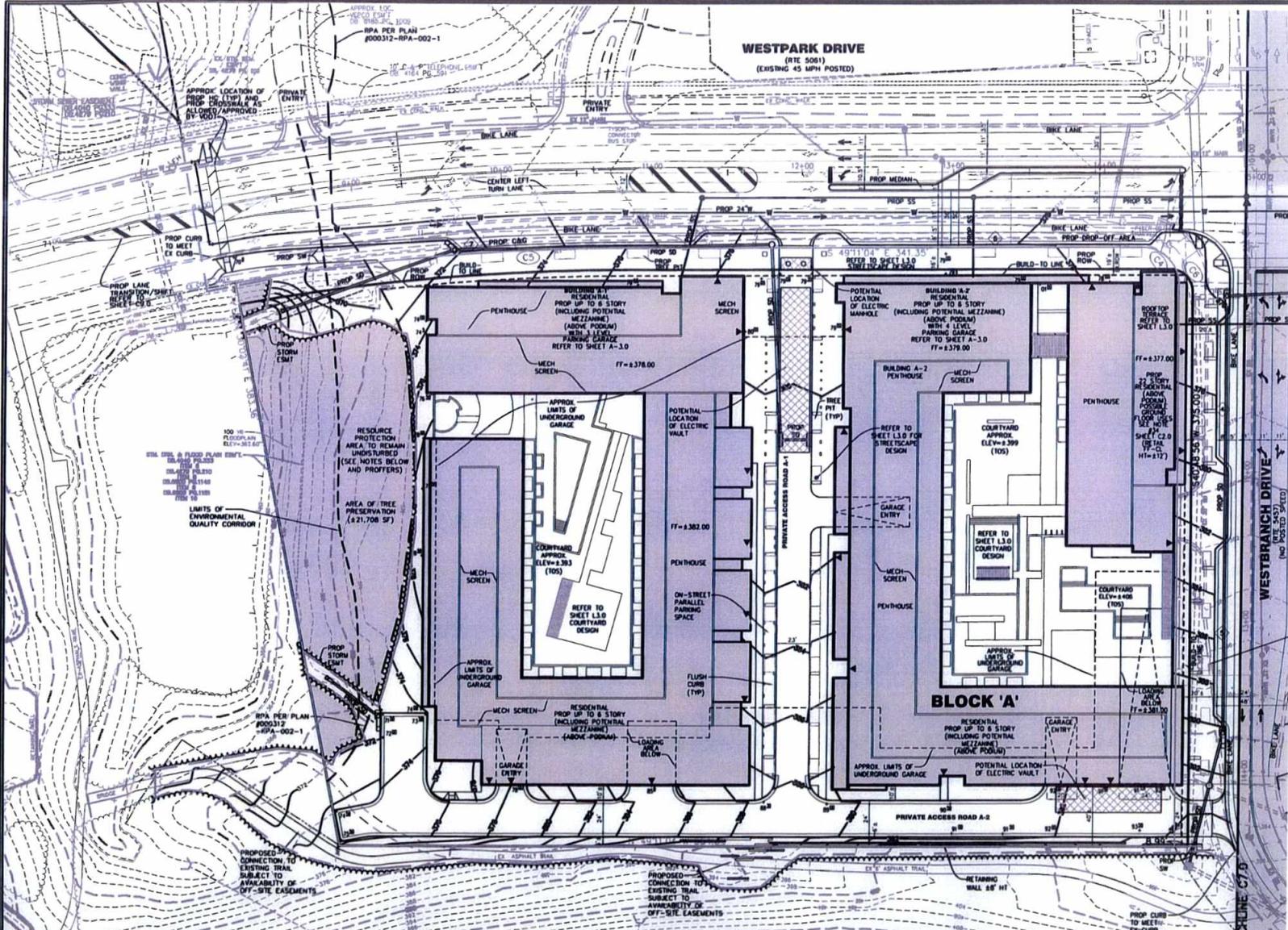
EXISTING ROADWAY CENTERLINE DATA

ROADWAY	EXISTING CENTERLINE RADIUS
WESTPARK DRIVE	CL-4 221'
WESTPARK DRIVE	CL-5 550'

CURVE TABLE: LOT 5A

CHORD	ARC LENGTH	CHORD BEARING	CHORD	ARC LENGTH	CHORD BEARING
176.81	183.72	S 10° 25' 15" W	218.33	171.10	S 71° 11' 00" W
346.81	183.72	S 45° 35' 15" W	183.00	174.91	S 71° 11' 00" W



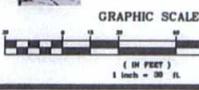


WESTPARK DRIVE
(RTE 5081)
(EXISTING 45 MPH POSTED)

WESTBRANCH DRIVE
(RTE 5077)
(NO POSTED SPEED)

- NOTES:**
1. REFER TO SHEET C6.0 AND C6.3 FOR PROPOSED ROAD DESIGN, STRIPING AND MARKING PLAN
 2. PROPOSED CONTOURS, ELEVATION SAND UTILITIES SHOWN ARE PRELIMINARY AND SUBJECT TO CHANGE WITH FDP AND FINAL ENGINEERING
 3. BUILD-TO-LINE BASED ON COMPREHENSIVE PLAN URBAN DESIGN GUIDELINE
 4. CROSSWALK LOCATIONS ARE CONCEPTUAL AND SUBJECT TO APPROVAL BY VDOT
 5. REFER TO SHEET C6.3 FOR BLOCK A PHASING SEQUENCE

- LEGEND:**
- ◊ PROPOSED ON STREET PARKING QUANTITY (FOR INFORMATION ONLY) SPACES SHALL NOT BE STRIPED OR METERED.
 - ▶ PROPOSED BUILDING ENTRY
 - PRELIMINARY APPROXIMATE LIMITS OF CLEARING AND GRADING (SUBJECT TO CHANGE WITH FDP AND FINAL SITE PLAN)



RESOURCE PROTECTION AREA EXEMPTIONS:
THE REDEVELOPMENT ACTIVITIES ON BLOCK 'A' REQUIRE ALLOWABLE EXEMPTIONS FOR MINOR ENCRoACHMENTS TO THE RPA (MAPPED ALONG THE OFF-SITE POND "D") AS REQUIRED FOR FRONTAGE IMPROVEMENTS ALONG WESTPARK DRIVE, THE RELOCATION OF AN EXISTING ASPHALT TRAIL, AND CONSTRUCTION OF TWO STORM SEWER OVERTOALS. PROPOSED FRONTAGE IMPROVEMENTS ALONG WESTPARK DRIVE, WHICH INCLUDE TURN LANE, STORM DRAIN IMPROVEMENTS AND OTHER STREETSCAPE IMPROVEMENTS ALONG THE PUBLIC ROAD, ARE CONSIDERED EXEMPT FROM THE PROVISIONS OF THE CHESAPEAKE BAY PRESERVATION ORDINANCE (CSPO) UNDER SECTION 118-3-2(A). THE ASPHALT TRAIL RELOCATION IS ALSO CONSIDERED AN EXEMPTION UNDER SECTION 118-3-2(A) OF THE CSPO. PROVIDED THAT IT COMPLES WITH ITEMS (1) THROUGH (4) OF THAT SUBSECTION, INCLUDING APPROVAL OF A WRITTEN REQUEST FOR THE EXEMPTION BY THE DIRECTOR OF DPWS. THE TWO STORM SEWER OVERTOALS WITHIN THE RPA UNDER SECTION 118-3-2(A) PROVIDED IT COMPLES WITH THE PERFORMANCE CRITERIA IN ARTICLE 3, INCLUDING SUBMISSION AND APPROVAL OF A WATER QUALITY IMPACT ASSESSMENT (WQA). AT THE TIME OF SITE PLAN FOR BLOCK 'A', A WQA WILL BE SUBMITTED IN ACCORDANCE WITH ARTICLE 4 OF THE CSPO FOR THE PROPOSED STORM SEWER OVERTOALS, AND WILL INCLUDE THE COMPONENTS LISTED IN SECTION 118-4-3(A) THROUGH (D) OF THE CSPO, INCLUDING A DESCRIPTION OF THEIR CONFORMANCE WITH APPLICABLE PERFORMANCE CRITERIA LISTED IN ARTICLE 3. THE WQA WILL ALSO INCORPORATE THE WRITTEN REQUEST FOR APPROVAL OF THE RELOCATED TRAIL WITHIN THE RPA AS AN EXEMPTION UNDER SECTION 118-3-2(A) OF THE CSPO.

RESOURCE PROTECTION AREA - NOTE:
THE LIMITS OF CLEARING AND GRADING SHOWN ALONG THE RPA BOUNDARY SHALL BE STRICTLY OBSERVED AND ENFORCED. AT THE TIME OF FINAL ENGINEERING/SITE PLAN, THE PHASE 1 AND 2 EROSION AND SEDIMENT (E&S) CONTROL PLANS AND ASSOCIATED E&S NARRATIVE SHALL REQUIRE THE INSTALLATION OF TREE PROTECTION FENCING WITH SIGNAGE AND SUPER 36 FENCE ALONG THE LIMITS OF CLEARING AND GRADING THAT ABUT THE RPA BOUNDARY. THE ONLY AUTHORIZED ENCRoACHMENTS INTO THE RPA ARE THOSE DEPICTED ON THIS PLAN AND SET FORTH IN THE PROFILES, SUBJECT TO APPROVAL OF A WATER QUALITY IMPACT ASSESSMENT AND THOSE ALLOWED BY OR EXEMPT FROM THE CHESAPEAKE BAY PRESERVATION ORDINANCE (CSPO), AS APPROVED BY DPWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS TO ENSURE THAT THE BUILDING CONSTRUCTION DOES NOT ENCRoACH INTO THE RPA. ANY UNAUTHORIZED ENCRoACHMENT INTO, OR DISRUPTION OF, THE RPA IS CONSIDERED A VIOLATION OF THE CHESAPEAKE BAY PRESERVATION ORDINANCE (CSPO) AND IS SUBJECT TO THE PENALTIES OF CSPO ARTICLE 9 (VIOLATIONS AND PENALTIES).

Bowman
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14225 Thornhill Road, Suite 300
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Phone: (703) 444-4000
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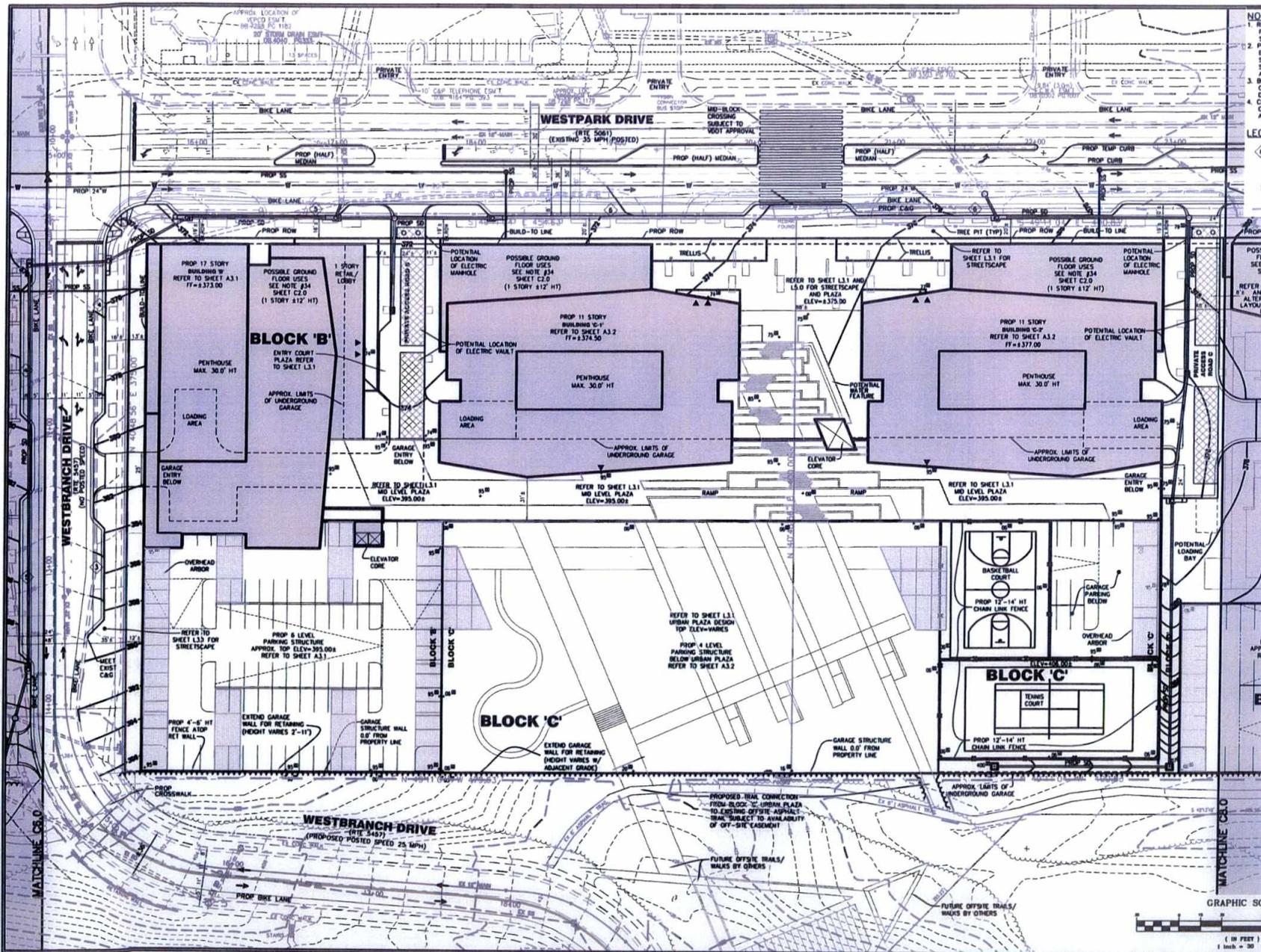
PARKER RODRIGUEZ, INC.
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Falls Church, VA 22044
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DL Reed Estate Casual Partners

CONCEPTUAL DEVELOPMENT PLAN
BLOCK 'A'
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

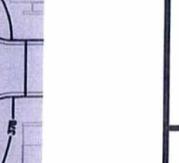
DATE	DESCRIPTION
03/21/11	PER COUNTY COMMITTEE
10/27/11	PER COUNTY COMMITTEE
03/21/12	PER COUNTY COMMITTEE
09/28/12	PER COUNTY COMMITTEE
02/28/13	PER COUNTY COMMITTEE
08/29/13	PER COUNTY COMMITTEE
10/29/13	PER COUNTY COMMITTEE

DATE: APRIL 26, 2011
FILE No. 7402-07-001
SHEET C6.0



- NOTES:**
1. REFER TO SHEET C8.1 AND C8.2 FOR PROPOSED ROAD DESIGN, STRIPING AND MARKING PLAN.
 2. PROPOSED CONTOURS, ELEVATIONS AND UTILITIES SHOWN ARE PRELIMINARY AND SUBJECT TO CHANGE WITH FDP AND FINAL ENGINEERING DESIGN GUIDELINE.
 3. BUILD-TO LINE BASED ON COMPREHENSIVE PLAN URBAN DESIGN GUIDELINE.
 4. CROSSWALK LOCATIONS ARE CONCEPTUAL AND SUBJECT TO APPROVAL BY VDOT.

- LEGEND:**
- ◊ PROPOSED ON STREET PARKING QUANTITY (FOR INFORMATION ONLY) SPACES SHALL NOT BE STRIPPED OR METEED.
 - ▶ PROPOSED BUILDING ENTRY
 - PRELIMINARY APPROXIMATE LIMITS OF CLEARING AND GRADING (SUBJECT TO CHANGE WITH FDP AND FINAL SITE PLAN)
 - POSSIBLE FLOOR SEE H-SHEETS
 - REFER TO AND / ALTERNATE LAYOUTS (H-SHEETS)



PLAN STATUS

01/27/11	PER COUNTY COMMITTEE
02/27/11	PER COUNTY COMMITTEE
03/24/11	PER COUNTY COMMITTEE
03/29/11	PER COUNTY COMMITTEE
04/28/11	PER COUNTY COMMITTEE
05/26/11	PER COUNTY COMMITTEE
05/26/11	PER COUNTY COMMITTEE
05/26/11	PER COUNTY COMMITTEE

DATE DESCRIPTION

SCALE	H-1-30
JOB No.	
DATE	APRIL 28, 2011
FILE No.	7403-07-001

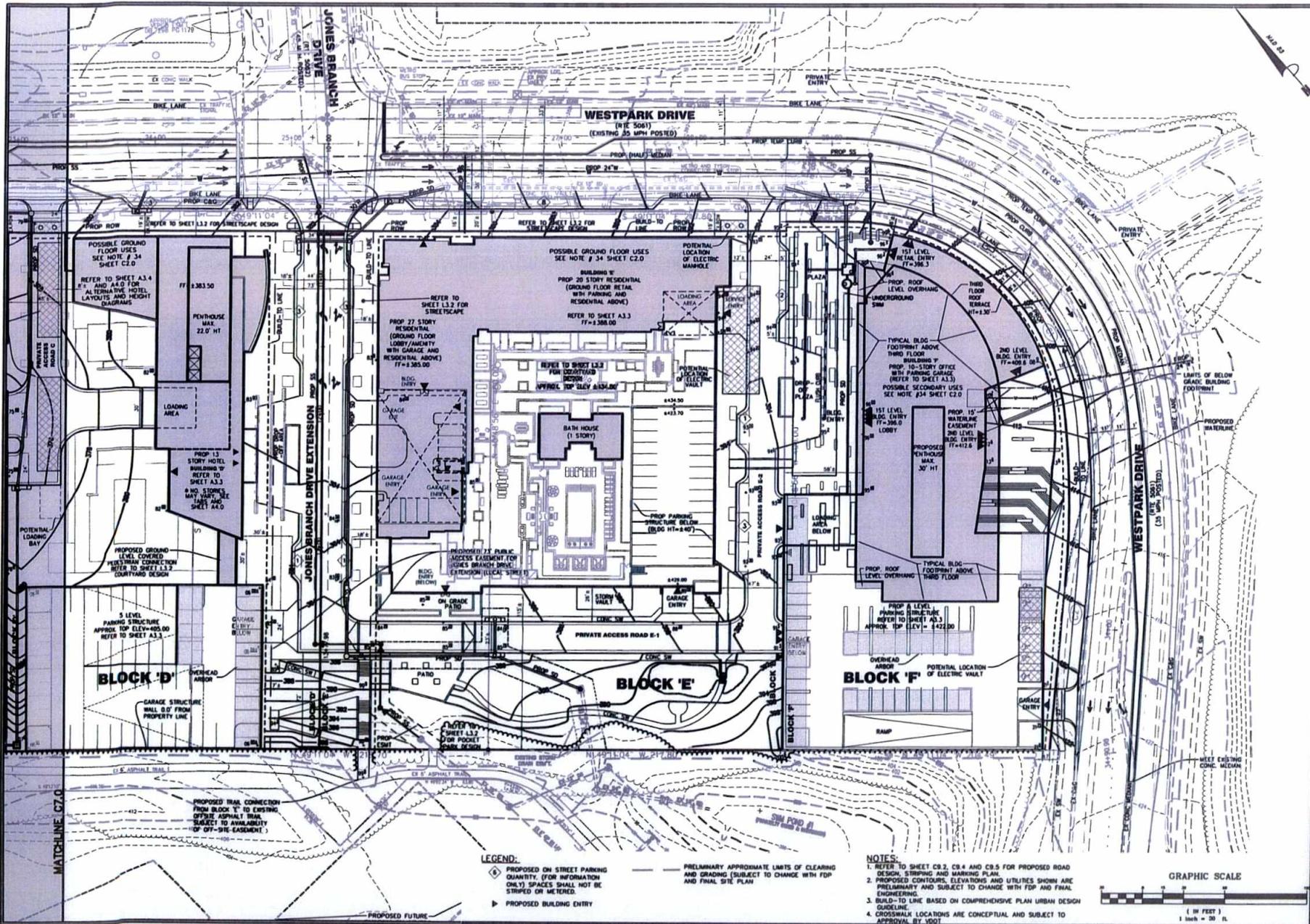
SHEET C7.0

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**CONCEPTUAL DEVELOPMENT PLAN
 BLOCKS 'B' & 'C'
 ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA**



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Cityline
 PARTNERS
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**CONCEPTUAL DEVELOPMENT PLAN
 BLOCKS D, E & F
 ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA**

DATE	DESCRIPTION
07/27/11	PER COUNTY COMMITTEE
12/07/11	PER COUNTY COMMITTEE
02/24/12	PER COUNTY COMMITTEE
05/25/12	PER COUNTY COMMITTEE
11/21/12	PER COUNTY COMMITTEE
03/05/13	PER COUNTY COMMITTEE

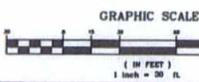
DATE: 11/27/12
 SCALE: 1/4" = 30'
 JOB No.:
 DATE: 1 APRIL 26, 2011
 FILE No. 7402-07-001
 SHEET: C8.0

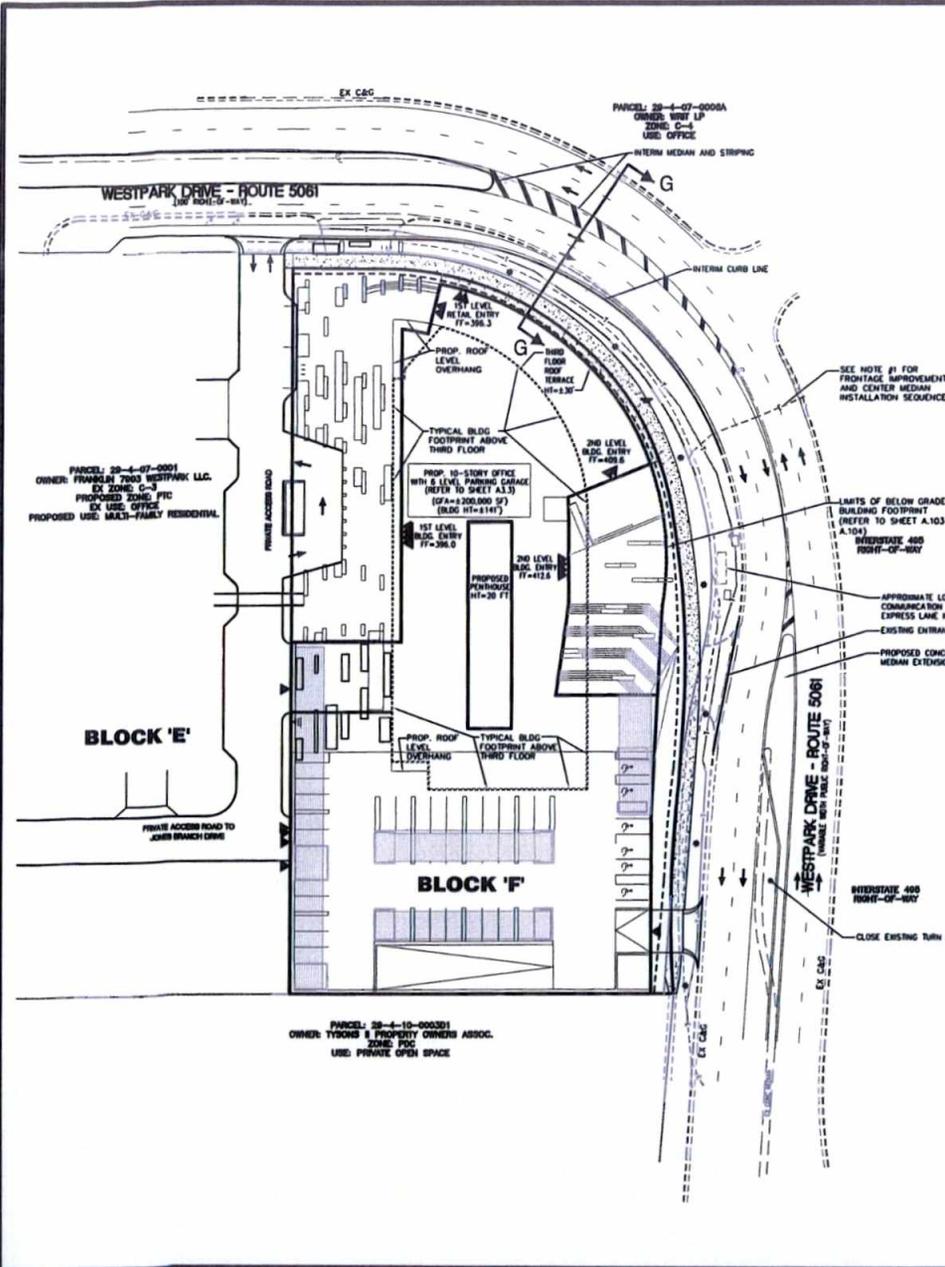
LEGEND:

- PROPOSED ON STREET PARKING QUANTITY, (FOR INFORMATION ONLY) SPACES SHALL NOT BE STRIPED OR METEDED.
- PROPOSED BUILDING ENTRY
- PRELIMINARY APPROXIMATE LIMITS OF CLEARING AND GRADING (SUBJECT TO CHANGE WITH FDP AND FINAL SITE PLAN)

NOTES:

- REFER TO SHEET C8.2, C8.4 AND C8.5 FOR PROPOSED ROAD DESIGN, STRIPING AND MARKING PLAN.
- PROPOSED CONTOURS, ELEVATIONS AND UTILITIES SHOWN ARE PRELIMINARY AND SUBJECT TO CHANGE WITH FDP AND FINAL ENGINEERING.
- BUILD-TO LINE BASED ON COMPREHENSIVE PLAN URBAN DESIGN GUIDELINE.
- CROSSWALK LOCATIONS ARE CONCEPTUAL AND SUBJECT TO APPROVAL BY VDOT.





SEE NOTE #1 FOR FRONTAGE IMPROVEMENTS AND CENTER MEDIAN INSTALLATION SEQUENCE.

LIMITS OF BELOW GRADE BUILDING FOOTPRINT (REFER TO SHEET A.103 & A.104)

INTERSTATE 495 RIGHT-OF-WAY

APPROXIMATE LOCATION EXISTING COMMUNICATION CABINET FOR INTERSTATE 495 EXPRESS LANE IMPROVEMENTS.

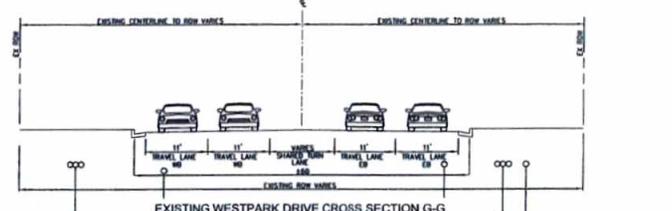
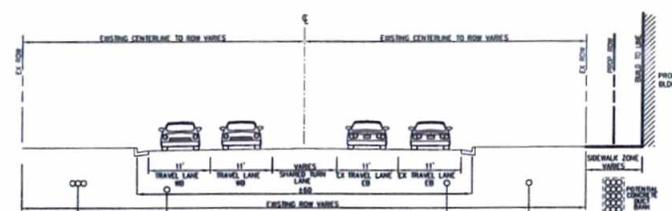
EXISTING ENTRANCE TO BE CLOSED.

PROPOSED CONCRETE MEDIAN EXTENSION

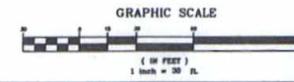
WESTPARK DRIVE - ROUTE 5061

INTERSTATE 495 RIGHT-OF-WAY

CLOSE EXISTING TURN LANE



- NOTE:**
- THE INTERIM CONDITIONS SHOWN ARE TO TAKE PLACE IF THE EXISTING COMMUNICATION CABINET FOR INTERSTATE 495 EXPRESS LANE IMPROVEMENTS HAS NOT BEEN RELOCATED AT THE TIME OF CONSTRUCTION OF BLOCK 'F'.
 - BUILD-TO LINE BASED ON COMPREHENSIVE PLAN URBAN DESIGN GUIDELINE.
 - CROSSWALK LOCATIONS ARE CONCEPTUAL AND SUBJECT TO APPROVAL BY VDOT



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Cityline Urban Design Partners

PLAN 11010

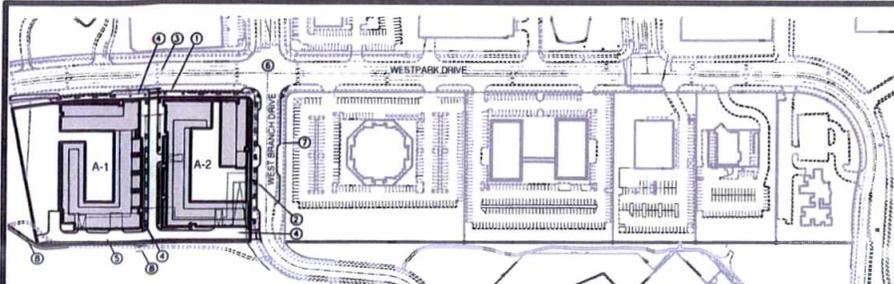
02/27/11	PER COUNTY COMMENT
03/03/11	PER COUNTY COMMENT
03/21/11	PER COUNTY COMMENT
03/29/11	PER COUNTY COMMENT
07/11/11	PER COUNTY COMMENT
07/11/11	PER COUNTY COMMENT
07/11/11	PER COUNTY COMMENT
08/29/11	PER COUNTY COMMENT
10/26/11	PER COUNTY COMMENT

SCALE 1/4"=1'-0"

DATE APRIL 26, 2011

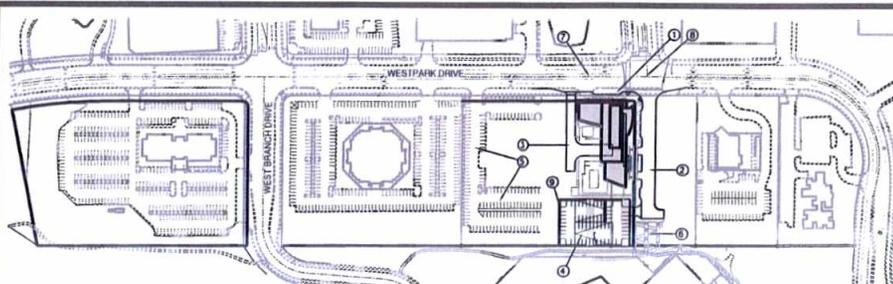
FILE No. 7403-07-001

SHEET C8.1



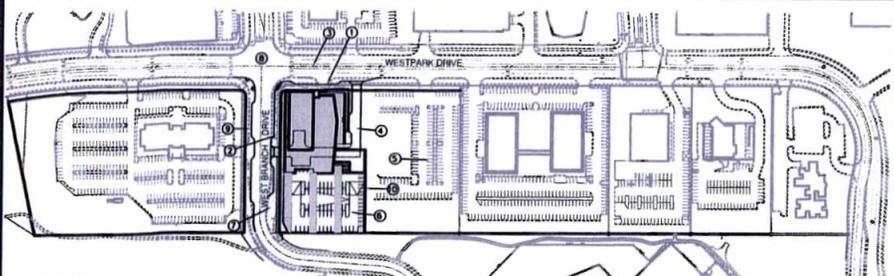
- LEGEND**
- ① CONSTRUCT WESTPARK DRIVE FRONTAGE IMPROVEMENTS (ROADWAY AND STREETSCAPE).
 - ② CONSTRUCT WEST BRANCH DRIVE WESTERN FRONTAGE IMPROVEMENTS (ROADWAY AND STREETSCAPE).
 - ③ CONSTRUCT WESTPARK DRIVE HALF MEDIAN (IF DETERMINED FEASIBLE WITH FINAL ENGINEERING DESIGN AND VDOT APPROVAL).
 - ④ CONSTRUCT WITH A-1 OR A-2.
 - ⑤ CONSTRUCT WITH A-1.
 - ⑥ PREPARE TRAFFIC SIGNAL WARRANT STUDY, INSTALL SIGNAL, BASED ON RESULTS OF STUDY, AND AS DESCRIBED IN PROFFERS.
 - ⑦ CONSTRUCT WESTBRANCH DRIVE EASTERN CURB (DOES NOT INCLUDE STREETSCAPE) IF REQUIRED BY VDOT AT TIME OF SITE PLAN REVIEW.
 - ⑧ CONSTRUCTION OF BLOCK 'A' MAY BE PHASED PER BUILDING DEVELOPMENT PLAN AND FINAL ENGINEERING SITE PLAN AND VDOT APPROVAL.
 - ⑨ EXTENT OF FRONTAGE IMPROVEMENTS FOR EACH BUILDING WILL BE DETERMINED WITH FINAL SITE PLAN.
 - ⑩ EXISTING PARKING LOT MAY BE UTILIZED IN INTERIM CONDITION BASED ON BUILDING DEVELOPMENT PHASING.

BLOCK A



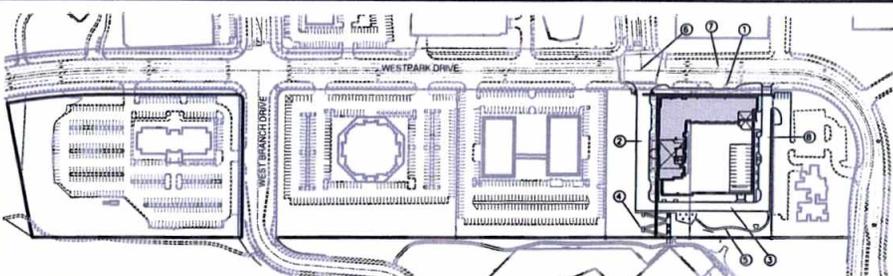
- LEGEND**
- ① CONSTRUCT WESTPARK DRIVE FRONTAGE IMPROVEMENTS (ROADWAY AND STREETSCAPE).
 - ② CONSTRUCT JONES BRANCH EXTENSION (ROADWAY) AND WESTERN STREETSCAPE.
 - ③ CONSTRUCT PRIVATE DRIVE TO SERVICE ACCESS.
 - ④ CONSTRUCT PARKING GARAGE.
 - ⑤ EXISTING SURFACE PARKING LOT TO REMAIN.
 - ⑥ CONSTRUCT PEDESTRIAN CONNECTION TO ADJACENT SOUTH PARCEL.
 - ⑦ CONSTRUCT WESTPARK DRIVE HALF MEDIAN (IF DETERMINED FEASIBLE WITH FINAL ENGINEERING DESIGN AND VDOT APPROVAL).
 - ⑧ EXISTING TRAFFIC SIGNAL MODIFICATIONS, PER WARRANT STUDY AND AS DESCRIBED IN PROFFERS.
 - ⑨ INTERIM TREATMENT OF POTENTIAL EXPOSED GARAGE WALL SHALL BE PROVIDED AS DESCRIBED IN PROFFERS.

BLOCK D



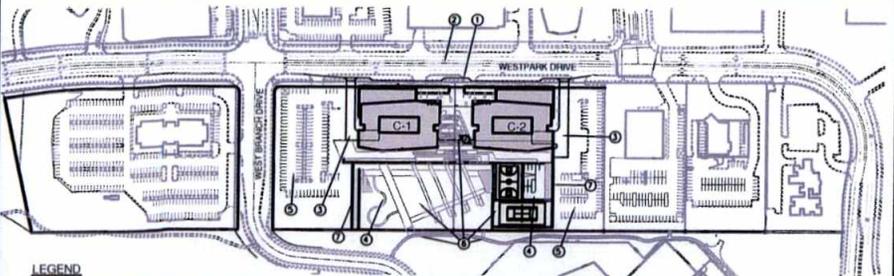
- LEGEND**
- ① CONSTRUCT WESTPARK DRIVE FRONTAGE IMPROVEMENTS (ROADWAY AND STREETSCAPE).
 - ② CONSTRUCT WEST BRANCH DRIVE EASTERN FRONTAGE IMPROVEMENTS (ROADWAY AND STREETSCAPE).
 - ③ CONSTRUCT WESTPARK DRIVE HALF MEDIAN (IF DETERMINED FEASIBLE WITH FINAL ENGINEERING DESIGN AND VDOT APPROVAL).
 - ④ CONSTRUCT PRIVATE DRIVE TO GARAGE ACCESS.
 - ⑤ EXISTING SURFACE PARKING LOT TO REMAIN.
 - ⑥ CONSTRUCT PARKING GARAGE.
 - ⑦ CONSTRUCT OPEN SPACE IMPROVEMENTS.
 - ⑧ PREPARE TRAFFIC SIGNAL WARRANT STUDY, INSTALL SIGNAL, BASED ON RESULTS OF STUDY, AND AS DESCRIBED IN PROFFERS.
 - ⑨ CONSTRUCT WESTBRANCH DRIVE WESTERN CURB (DOES NOT INCLUDE STREETSCAPE) IF REQUIRED BY VDOT AT TIME OF SITE PLAN REVIEW.
 - ⑩ INTERIM TREATMENT OF POTENTIAL EXPOSED GARAGE WALL SHALL BE PROVIDED AS DESCRIBED IN PROFFERS.

BLOCK B



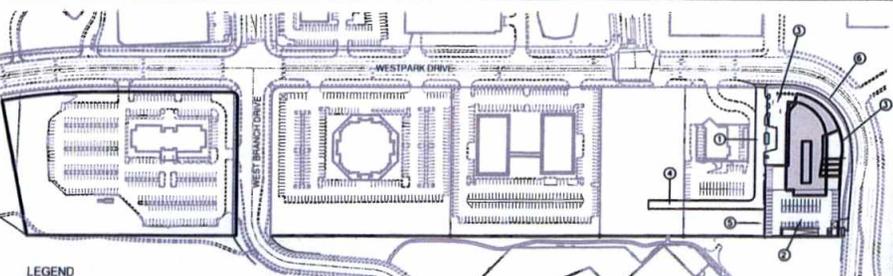
- LEGEND**
- ① CONSTRUCT WESTPARK DRIVE FRONTAGE IMPROVEMENTS (ROADWAY AND STREETSCAPE).
 - ② CONSTRUCT JONES BRANCH EXTENSION (ROADWAY) AND EASTERN STREETSCAPE.
 - ③ CONSTRUCT PRIVATE CONNECTION TO JONES BRANCH OR EXTENSION.
 - ④ CONSTRUCT PEDESTRIAN CONNECTION TO ADJACENT SOUTH PARCEL.
 - ⑤ CONSTRUCT OPENSPACE/PARK IMPROVEMENTS.
 - ⑥ TRAFFIC SIGNAL MODIFICATIONS, PER WARRANT STUDY AND AS DESCRIBED IN PROFFERS.
 - ⑦ CONSTRUCT WESTPARK DRIVE HALF MEDIAN (IF DETERMINED FEASIBLE WITH FINAL ENGINEERING DESIGN AND VDOT APPROVAL).
 - ⑧ CONSTRUCT PRIVATE DRIVE FOR ACCESS TO SERVICE/LOADING AREA (NOT INCLUDING EASTERN STREETSCAPE OR DROP-OFF AREAS).
- NOTE:**
NOTWITHSTANDING THE CONDITION SHOWN HEREON, THE EXISTING ENTRANCE FROM WESTPARK DRIVE TO THE NORTHWEST CORNER OF BLOCK F SHALL BE RETAINED UNTIL CONSTRUCTION OF THE REDEVELOPMENT OF BLOCK F IS COMPLETED. IF VDOT PERMITS THE EXISTING ENTRANCE AND A NEW ENTRANCE FROM WESTPARK DRIVE TO BLOCK E TO BE OPEN AND IN OPERATION SIMULTANEOUSLY.

BLOCK E



- LEGEND**
- ① CONSTRUCT WESTPARK DRIVE FRONTAGE IMPROVEMENTS (ROADWAY AND STREETSCAPE).
 - ② CONSTRUCT WESTPARK DRIVE HALF MEDIAN (IF DETERMINED FEASIBLE WITH FINAL ENGINEERING DESIGN AND VDOT APPROVAL).
 - ③ CONSTRUCT PRIVATE DRIVE TO GARAGE.
 - ④ CONSTRUCT PARKING GARAGE (FINAL BUILD OUT OF GARAGE TO BE BASED ON PARKING REQUIRED AND MARKET/TENANT REQUIREMENTS).
 - ⑤ EXISTING SURFACE PARKING LOT TO REMAIN AND BE UTILIZED IN INTERIM CONDITIONS BASED ON BUILDING DEVELOPMENT PHASING.
 - ⑥ CENTRAL URBAN PARK, PLAZA, AND CONNECTION TO OFF-SITE TRAIL MAY BE CONSTRUCTED IN PHASES PER BLDG C-1/C-2 DEVELOPMENT. (TRAIL CONNECTION IS SUBJECT TO AVAILABILITY OF OFF-SITE EASEMENTS). REFER TO SHEET C8.3 AND PROFFERS FOR ADDITIONAL PHASING DESCRIPTION.
 - ⑦ INTERIM TREATMENT OF POTENTIAL EXPOSED GARAGE WALL SHALL BE PROVIDED AS DESCRIBED IN PROFFERS.
- NOTE:**
CONSTRUCTION OF BLOCK 'C' MAY BE PHASED PER BUILDING C-1 AND C-2 (REFER TO SHEET C8.3). EXTENT OF WESTPARK DR. FRONTAGE IMPROVEMENTS AND URBAN PARK IMPROVEMENTS ASSOCIATED WITH EACH BUILDING WILL BE DETERMINED WITH FINAL SITE PLAN.
- NOTE:**
C-1 AND C-2 MAY BE BUILT IN ANY ORDER OR AT THE SAME TIME.

BLOCK C



- LEGEND**
- ① CONSTRUCT PRIVATE DRIVE CONNECTION TO WESTPARK DR. (NOT INCLUDING WESTERN STREETSCAPE).
 - ② CONSTRUCT PARKING GARAGE.
 - ③ CONSTRUCT OPENSPACE IMPROVEMENTS.
 - ④ CONSTRUCT PRIVATE DRIVE CONNECTION TO FUTURE JONES BRANCH DRIVE EXTENSION.
 - ⑤ INTERIM TREATMENT OF POTENTIAL EXPOSED GARAGE WALL SHALL BE PROVIDED AS DESCRIBED IN PROFFERS.
 - ⑥ CONSTRUCT WESTPARK FRONTAGE IMPROVEMENTS AS INDICATED ON SHEETS C8.D AND C8.I AND AS DESCRIBED IN PROFFERS.

BLOCK F

GENERAL NOTES:

1. FINAL ROAD, CURB, CROSSWALK AND MEDIAN ALIGNMENT (INCLUDING CURB CUT, TURN LANES, MEDIAN BREAKS, PARKING, ETC.) IS SUBJECT TO CHANGE WITH FINAL DEVELOPMENT PLAN AND FINAL ENGINEERING SITE PLAN AND VDOT APPROVAL.
2. EXTENT OF FRONTAGE IMPROVEMENTS THAT MAY BE CONSTRUCTED WITH INDIVIDUAL BLOCKS WILL BE DETERMINED WITH FINAL ENGINEERING AND VDOT APPROVAL INCLUDING LANE WIDTHING, MEDIANS, TRANSITIONS, MARKINGS, STREETSCAPE, BIKE LANE, ETC.
3. SEE PROFFERS FOR ADDITIONAL PHASING INFORMATION.

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 Fax: (703) 441-5570
 www.boymart.com

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 Fax: (703) 544-7274
 www.pakeroodríguez.com

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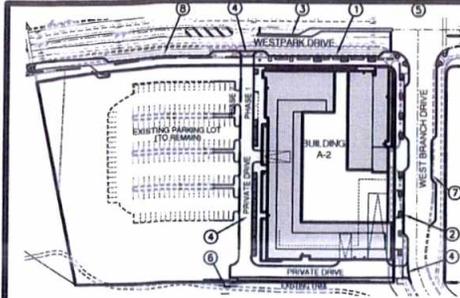
OVERALL DEVELOPMENT PHASING EXHIBIT ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
 PROVIDENCE DISTRICT, FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
03/29/11	PER COUNTY COMMENTS
04/22/11	PER COUNTY COMMENTS
05/24/11	PER COUNTY COMMENTS
06/23/11	PER COUNTY COMMENTS
07/21/11	PER COUNTY COMMENTS
08/24/11	PER COUNTY COMMENTS
09/21/11	PER COUNTY COMMENTS
10/20/11	PER COUNTY COMMENTS

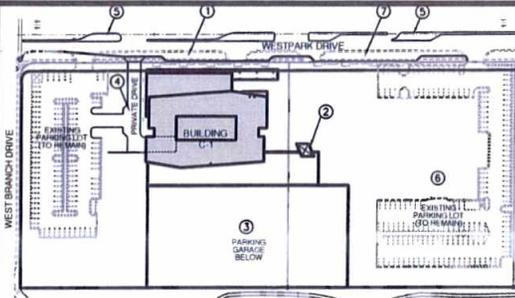
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JOB No. _____
 DATE: APRIL 26, 2011
 FILE No. 7403-07-001

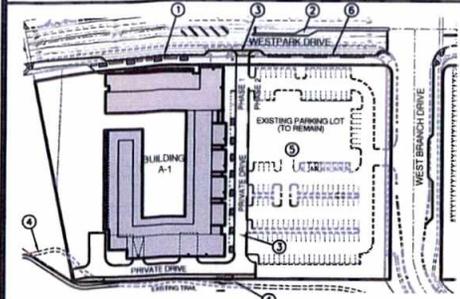
SHEET C8.2



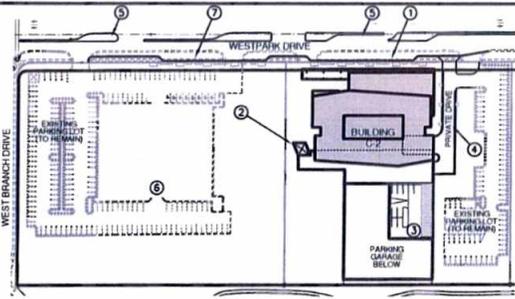
- PHASE 1 - OPTION 'A'**
(CONSTRUCT BUILDING A-2)
- LEGEND**
- 1 CONSTRUCT WESTPARK DRIVE FRONTAGE IMPROVEMENTS (ROADWAY AND STREETSCAPE).
 - 2 CONSTRUCT WESTBRANCH DRIVE WESTERN FRONTAGE IMPROVEMENTS (ROADWAY AND STREETSCAPE).
 - 3 CONSTRUCT WESTPARK DRIVE HALF MEDIAN (IF DETERMINED FEASIBLE WITH FINAL ENGINEERING DESIGN AND VDOT APPROVAL).
 - 4 CONSTRUCT ENTRANCE AND PRIVATE DRIVE AISLE.
 - 5 INSTALL TRAFFIC SIGNAL BASED ON RESULTS OF WARRANT STUDY, AND AS DESCRIBED IN PROFFERS.
 - 6 CONSTRUCT OFF-SITE TRAIL, SUBJECT TO AVAILABILITY OF OFF-SITE EASEMENT.
 - 7 CONSTRUCT WESTBRANCH DRIVE EASTERN CURB AND UTILITIES (NOT INCLUDING STREETSCAPE) IF REQUIRED BY VDOT AT TIME OF SITE PLAN REVIEW.
 - 8 CONSTRUCT WESTPARK DRIVE CURB AND UTILITIES (NOT INCLUDING STREETSCAPE) IF REQUIRED BY VDOT AT TIME OF SITE PLAN REVIEW.



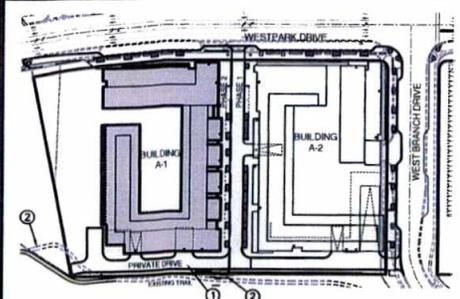
- PHASE 1 - OPTION 'A'**
(CONSTRUCT BUILDING C-1)
- LEGEND**
- 1 CONSTRUCT WESTPARK DRIVE FRONTAGE IMPROVEMENTS (ROADWAY AND STREETSCAPE).
 - 2 CONSTRUCT ELEVATOR CORE.
 - 3 CONSTRUCT PARKING GARAGE.
 - 4 CONSTRUCT ENTRANCE AND PRIVATE DRIVE AISLE.
 - 5 CONSTRUCT WESTPARK DRIVE HALF MEDIAN (IF DETERMINED FEASIBLE WITH FINAL ENGINEERING DESIGN AND VDOT APPROVAL).
 - 6 PREVIOUS BUILDING PAD AREA TO BE SEEDS SUBJECT TO TIMING OF SECOND BUILDING PHASE DEVELOPMENT.
 - 7 CONSTRUCT WESTPARK DRIVE ROADWAY AND UTILITIES (NOT INCLUDING STREETSCAPE).



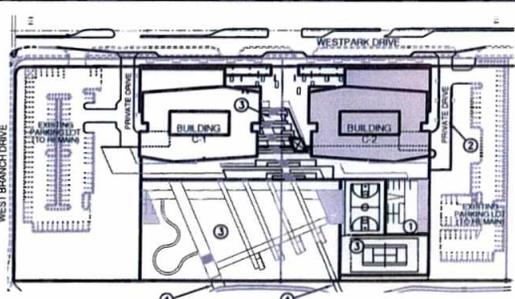
- PHASE 1 - OPTION 'B'**
(CONSTRUCT BUILDING A-1)
- LEGEND**
- 1 CONSTRUCT WESTPARK DRIVE FRONTAGE IMPROVEMENTS (ROADWAY AND STREETSCAPE).
 - 2 CONSTRUCT WESTPARK DRIVE HALF MEDIAN (IF DETERMINED FEASIBLE WITH FINAL ENGINEERING DESIGN AND VDOT APPROVAL).
 - 3 CONSTRUCT ENTRANCE AND PRIVATE DRIVE AISLE.
 - 4 CONSTRUCT OFF-SITE TRAIL, SUBJECT TO AVAILABILITY OF OFF-SITE EASEMENT.
 - 5 PREVIOUS BUILDING PAD AREA TO BE SEEDS SUBJECT TO TIMING OF SECOND BUILDING PHASE DEVELOPMENT.
 - 6 CONSTRUCT WESTPARK DRIVE CURB AND UTILITIES (NOT INCLUDING STREETSCAPE) IF REQUIRED BY VDOT AT TIME OF SITE PLAN REVIEW.



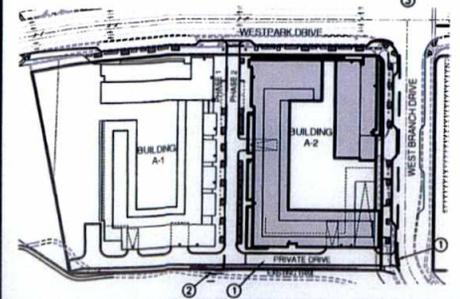
- PHASE 1 - OPTION 'B'**
(CONSTRUCT BUILDING C-2)
- LEGEND**
- 1 CONSTRUCT WESTPARK DRIVE FRONTAGE IMPROVEMENTS (ROADWAY AND STREETSCAPE).
 - 2 CONSTRUCT ELEVATOR CORE.
 - 3 CONSTRUCT PARKING GARAGE.
 - 4 CONSTRUCT ENTRANCE AND PRIVATE DRIVE AISLE.
 - 5 CONSTRUCT WESTPARK DRIVE HALF MEDIAN (IF DETERMINED FEASIBLE WITH FINAL ENGINEERING DESIGN AND VDOT APPROVAL).
 - 6 PREVIOUS BUILDING PAD AREA TO BE SEEDS SUBJECT TO TIMING OF SECOND BUILDING PHASE DEVELOPMENT.
 - 7 CONSTRUCT WESTPARK DRIVE ROADWAY AND UTILITIES (NOT INCLUDING STREETSCAPE).



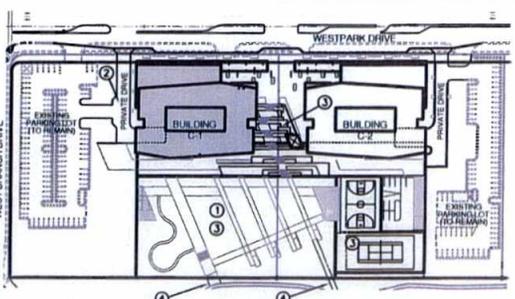
- PHASE 2 - OPTION 'A'**
(BUILDING A-2 COMPLETE
CONSTRUCT BUILDING A-1)
- LEGEND**
- 1 CONSTRUCT ENTRANCE AND PRIVATE DRIVE AISLE.
 - 2 CONSTRUCT OFFSITE TRAIL IMPROVEMENTS, SUBJECT TO AVAILABILITY OF OFF-SITE EASEMENTS.



- PHASE 2 - OPTION 'A'**
(BUILDING C-1 COMPLETE
CONSTRUCT BUILDING C-2)
- LEGEND**
- 1 CONSTRUCT PARKING GARAGE.
 - 2 CONSTRUCT ENTRANCE AND PRIVATE DRIVE AISLE.
 - 3 CONSTRUCT URBAN PLAZA, STAIRS AND SPORTS COURTS, OPEN TO PUBLIC AT THE TIME OF ISSUANCE OF THE 1st NON-RUP FOR THE 2ND BUILDING IN BLOCK 'C'.
 - 4 CONSTRUCT OFFSITE TRAIL IMPROVEMENTS, SUBJECT TO AVAILABILITY OF OFF-SITE EASEMENTS.



- PHASE 2 - OPTION 'B'**
(BUILDING A-1 COMPLETE
CONSTRUCT BUILDING A-2)
- LEGEND**
- 1 CONSTRUCT ENTRANCE AND PRIVATE DRIVE AISLE.
 - 2 CONSTRUCT OFFSITE TRAIL IMPROVEMENTS, SUBJECT TO AVAILABILITY OF OFF-SITE EASEMENTS.
 - 3 INSTALL TRAFFIC SIGNAL BASED ON RESULTS OF WARRANT STUDY, AND AS DESCRIBED IN PROFFERS.



- PHASE 2 - OPTION 'B'**
(BUILDING C-2 COMPLETE
CONSTRUCT BUILDING C-1)
- LEGEND**
- 1 CONSTRUCT PARKING GARAGE.
 - 2 CONSTRUCT ENTRANCE AND PRIVATE DRIVE AISLE.
 - 3 CONSTRUCT URBAN PLAZA, STAIRS AND SPORTS COURTS, OPEN TO PUBLIC AT THE TIME OF ISSUANCE OF THE 1st NON-RUP FOR THE 2ND BUILDING IN BLOCK 'C'.
 - 4 CONSTRUCT OFFSITE TRAIL IMPROVEMENTS, SUBJECT TO AVAILABILITY OF OFF-SITE EASEMENTS.

GENERAL NOTES

1. DEVELOPMENT PHASING OF BLOCKS "ABC" MAY BE REVERSED BASED ON MARKET CONDITIONS AT THE TIME OF TDP AND FINAL SITE PLAN.
2. EXTENT OF FRONTAGE IMPROVEMENTS FOR EACH BUILDING SHALL BE DETERMINED WITH FINAL SITE PLAN AND APPROVED BY VDOT.
3. EXISTING PARKING LOT MAY BE UTILIZED IN INTERIM CONDITION FOR COMPUTER COMMERCIAL PARKING UNTIL CONSTRUCTION PHASING AND SIMILAR USES BASED ON BUILDING DEVELOPMENT PHASING.
4. EXISTING VEGETATION ALONG PERIMETER AND WITHIN THE EXISTING PARKING LOTS SHALL BE UTILIZED IN LIEU OF PARKING LOT LANDSCAPE REQUIREMENTS TO THE EXTENT POSSIBLE.

BLOCKS A & C PHASING EXHIBIT

ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS

07/27/11	PER COUNTY COMMITTEE
07/27/11	PER COUNTY COMMITTEE
07/27/11	PER COUNTY COMMITTEE
07/27/11	REV PER COMMENTS
07/27/11	PER COUNTY COMMITTEE
08/24/11	PER COUNTY COMMITTEE
08/24/11	PER COUNTY COMMITTEE

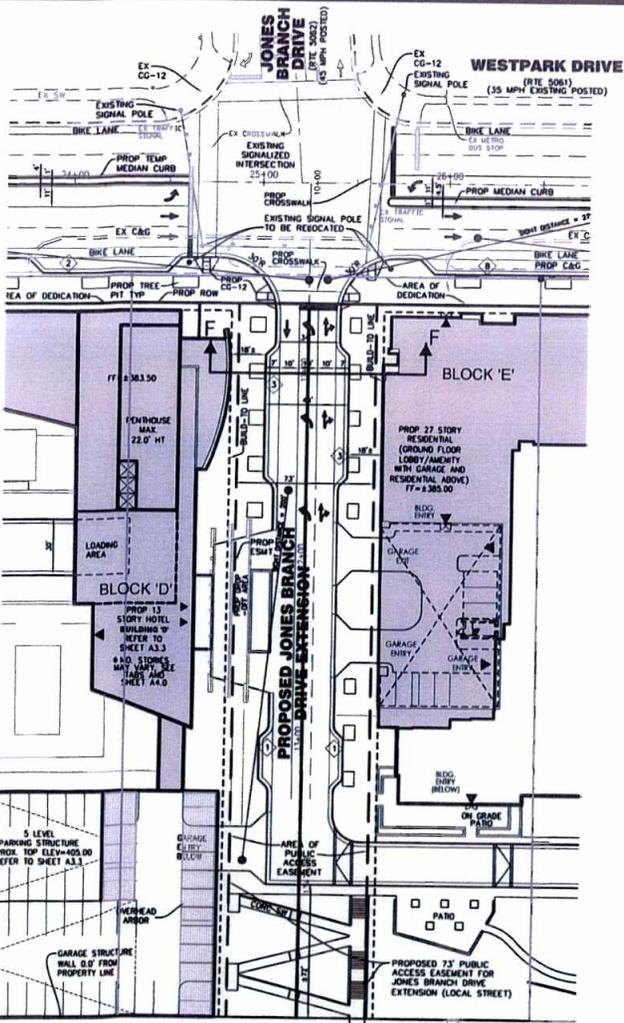
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JOB No.
DATE: APRIL 26, 2011
FILE No. 7403-07-01

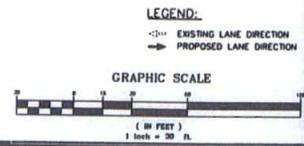
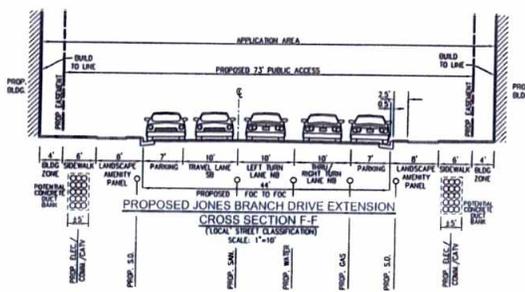
SCALE C8.3

PAKERBODRIGUEZ, INC.
1971 North Loyal Lane, #220
Falls Church, VA 22044
Phone: (703) 441-1000
www.parkerbodríguez.com

Cityline PARTNERS
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- NOTES:**
- FINAL ROAD, CURB, CROSSWALK AND MEDIAN ALIGNMENT (INCLUDING CURB CUT, TURN LANES, MEDIAN BREAKS, PARKING, ETC.) IS SUBJECT TO CHANGE WITH FINAL DEVELOPMENT PLAN AND FINAL ENGINEERING SITE PLAN AND VDOT APPROVAL.
 - REFER TO SHEET L4.1 FOR STREETSCAPE DESIGN ELEMENTS.
 - AREA OF RIGHT OF WAY DEDICATION/VACATION SHOWN ON THIS COP ARE APPROXIMATE. FINAL AREAS, LOCATION AND QUANTITIES OF STREET RIGHT OF WAY DEDICATION AND OR VACATION ARE TO BE DETERMINED AT TIME OF FINAL SITE PLAN.
 - SIGHT DISTANCE DIMENSION IS BASED ON PROPOSED DESIGN SPEED LIMITS AS OUTLINED IN THE VDOT TRANSPORTATION DESIGN STANDARDS FOR TYSON CORNER (TABLE 12). SEE PLAN VIEW FOR PROPOSED POSTED SPEED LIMITS.
 - EXISTING UTILITIES REPRESENTED HERE ARE APPROXIMATE IN LOCATION AND DESCRIPTION FOR REFERENCE ONLY OF EXISTING CONDITIONS.
 - ON-STREET PARKING SHOWN FOR INFORMATION ONLY. SPACES SHALL NOT BE STRIPED OR METERED.
 - PROPOSED DRIVEWAY ENTRANCE SHALL CONFORM TO THE TYSON T.O.S. AND ARE NOT SUBJECT TO THE P.F.M.



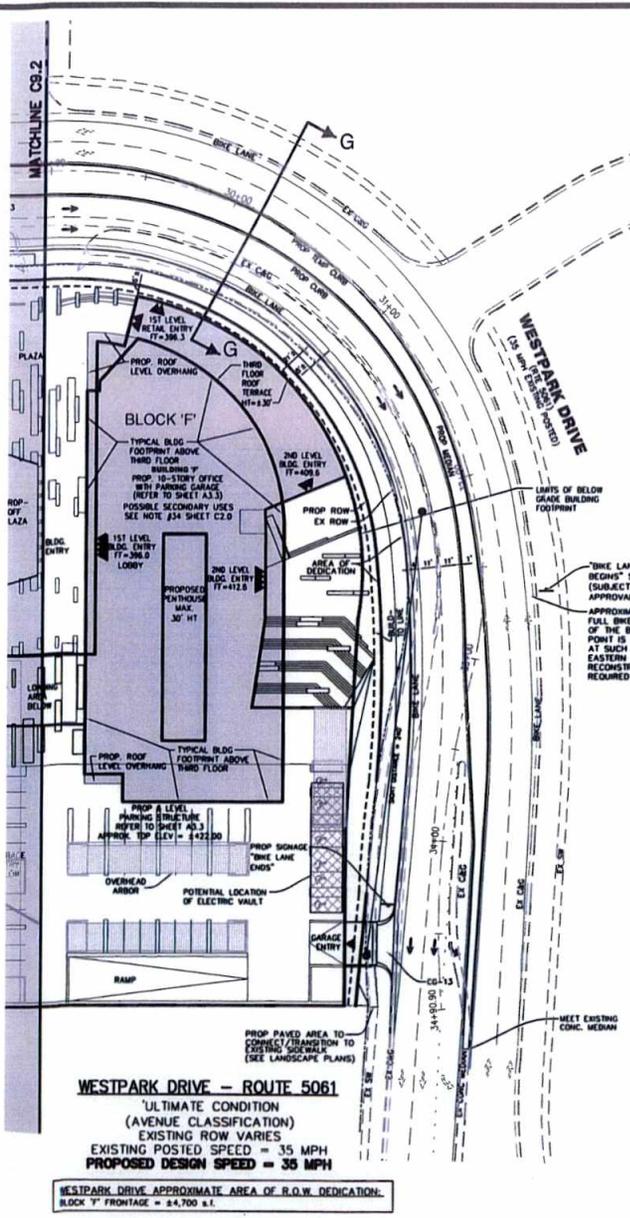
PAKER RODRIGUEZ INC.
101 North Union St., #203
1420 Thurston Place, Suite 202
Richmond, VA 23224
Phone: (703) 494-2020
Fax: (703) 494-2020
www.parkerrodriguez.com

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ROADWAY STRIPING AND MARKING PLAN
(SHEET 5 OF 6)
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	BY	DESCRIPTION
01/27/11	PER COUNTY COMMISSION	
03/07/11	PER COUNTY COMMISSION	
03/24/11	PER COUNTY COMMISSION	
04/29/11	PER COUNTY COMMISSION	
05/20/11	PER COUNTY COMMISSION	
05/23/11	PER COUNTY COMMISSION	
05/23/11	PER COUNTY COMMISSION	
05/26/11	PER COUNTY COMMISSION	

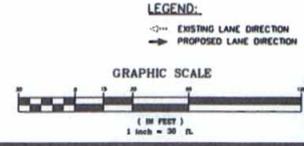
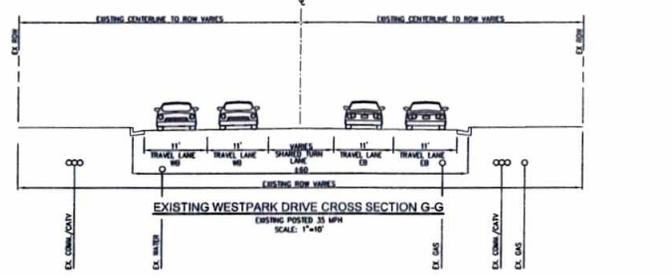
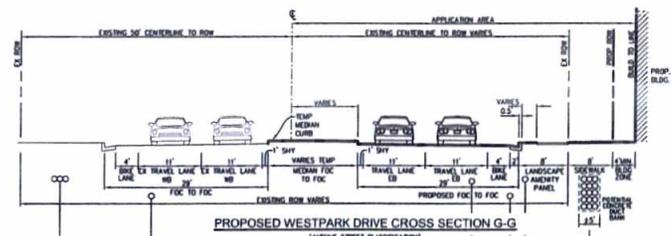
JOB No. _____
DATE: APRIL 28, 2011
FILE No. 7403-07-001
SHEET C9.4



WESTPARK DRIVE -- ROUTE 5061
 'ULTIMATE CONDITION
 (AVENUE CLASSIFICATION)
 EXISTING ROW VARIES
 EXISTING POSTED SPEED = 35 MPH
 PROPOSED DESIGN SPEED = 35 MPH

WESTPARK DRIVE APPROXIMATE AREA OF R.O.W. DEDICATION:
 BLOCK 7' FRONTAGE = 4,700 s.f.

- NOTES:**
1. FINAL ROAD, CURB, CROSSWALK AND MEDIAN ALIGNMENT (INCLUDING CURB CUT, TURN LANES, MEDIAN BREAKS, PARKING, ETC.) IS SUBJECT TO CHANGE WITH FINAL DEVELOPMENT PLAN AND FINAL ENGINEERING SITE PLAN AND VDOT APPROVAL.
 2. REFER TO SHEET L4.0 - L4.1 FOR STREETScape DESIGN ELEMENTS.
 3. AREA OF RIGHT OF WAY DEDICATION/VACATION SHOWN ON THIS COP ARE APPROXIMATE 'FINAL' AREAS, LOCATION AND QUANTITIES OF STREET RIGHT OF WAY DEDICATION AND OR VACATION ARE TO BE DETERMINED AT TIME OF FINAL SITE PLAN.
 4. REFER TO SHEET L3.0-L3.1 FOR ILLUSTRATION OF NORTH SIDE WESTPARK DRIVE, ULTIMATE ROAD DESIGN.
 5. SIGHT DISTANCE DIMENSION IS BASED ON PROPOSED DESIGN SPEED LIMITS AS OUTLINED IN THE VDOT TRANSPORTATION DESIGN STANDARDS FOR TYSON CORNER (TABL. 12). SEE PLAN VIEW FOR PROPOSED POSTED SPEED LIMITS.
 6. PROPOSED ROADWAY CONDITIONS REPRESENTED HEREON ARE TO TAKE PLACE IF THE EXISTING COMMUNICATION CABINET ASSOCIATED WITH THE INTERSTATE 495 EXPRESS LANE IMPROVEMENTS HAS BEEN RELOCATED PRIOR TO THE CONSTRUCTION OF BLOCK 7'. SEE SHEET C8.1 FOR INTERMEDIATE ROAD CONDITION IN THE EVENT THE REFERRED CABINET HAS NOT BEEN RELOCATED.
 7. PROPOSED UTILITY LOCATIONS SHOWN ARE FOR GENERAL REFERENCE ONLY AND SUBJECT TO CHANGE WITH TOP AND FINAL SITE PLAN ENGINEERING DESIGN AND COORDINATION WITH UTILITY PROVIDERS.
 8. ON-STREET PARKING SHOWN FOR INFORMATION ONLY. SPACES SHALL NOT BE STIMPED OR METEDED.
 9. PROPOSED DRIVEWAY/ENTRANCE SHALL CONFORM TO THE TYSON D.S. AND ARE NOT SUBJECT TO THE P.F.M.



Bowman
 PARKER RODRIGUEZ, INC.
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 Chesapeake, Virginia 23042
 753.548.5010
 Fax: 753.481.8770
 www.bowmanpr.com

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ROADWAY STRIPING AND MARKING PLAN
 (SHEET 6 OF 6)
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

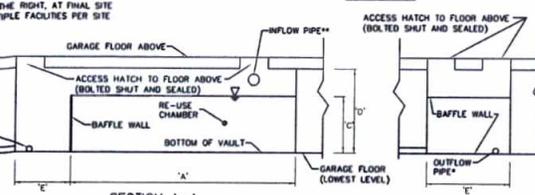
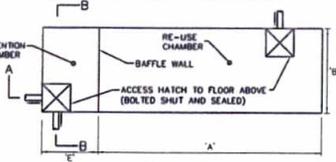
DATE	DESCRIPTION
01/27/11	PER COUNTY COMMENTS

JOB No.
 DATE: APRIL 26, 2011
 FILE No. 7403-07-001

SHEET C9.5

*ONE OUTFLOW PIPE PER VAULT.
LOCATION TO BE DETERMINED AT THE TIME OF FINAL ENGINEERING. OUTFALL MAY BE PUMPED.

- NOTES:**
- 1) FINAL NUMBER, SHAPE, SIZE, LOCATION, AND DESIGN OF SWM VAULTS ARE SUBJECT TO CHANGE AT THE TIME OF FINAL ENGINEERING.
 - 2) SUPPORT AND REINFORCING FOR VAULTS PER STRUCTURAL ENGINEERING PLANS.
 - 3) PUMPS SHALL BE INTEGRATED INTO VAULTS AT THE TIME OF FINAL ENGINEERING ON A CASE BY CASE BASIS.
 - 4) APPLICANT RESERVES THE RIGHT, AT FINAL SITE PLAN, TO UTILIZE MULTIPLE FACILITIES PER SITE IF NEEDED.

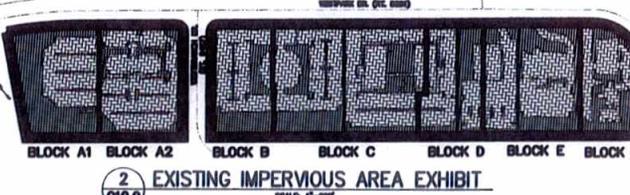


SWM SUMMARY

VAULT ID	REQUIRED VOLUME (CF)	LENGTH (FT)	WIDTH (FT)	RE-USE DEPTH (FT)	STORAGE DEPTH (FT)	DET. CHAMBER SIZE (FT)	VOLUME PROVIDED (CF)
NAME	A	B	C	D	E	F	
BLOCK A1	13,229	58	24	10	12	4	13,440
BLOCK A2	13,577	58	24	10	12	4	13,500
BLOCK B	10,395	52	18	10	12	4	11,160
BLOCK C	24,369	68	36	10	12	4	24,480
BLOCK D	3,867	26	18	10	12	4	10,080
BLOCK E	15,615	41	17	24	26	4	16,776

1 CONCEPTUAL FACILITY DETAIL
SCALE: NOT TO SCALE

EXISTING IMPERVIOUS AREA EXHIBIT

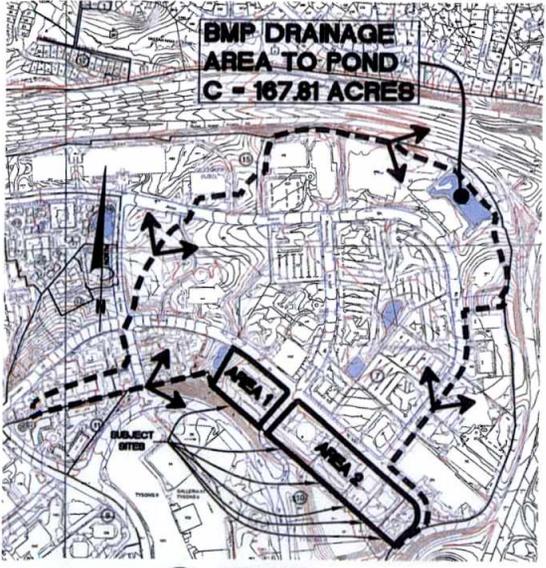


PRELIMINARY PROPOSED IMPERVIOUS AREA EXHIBIT



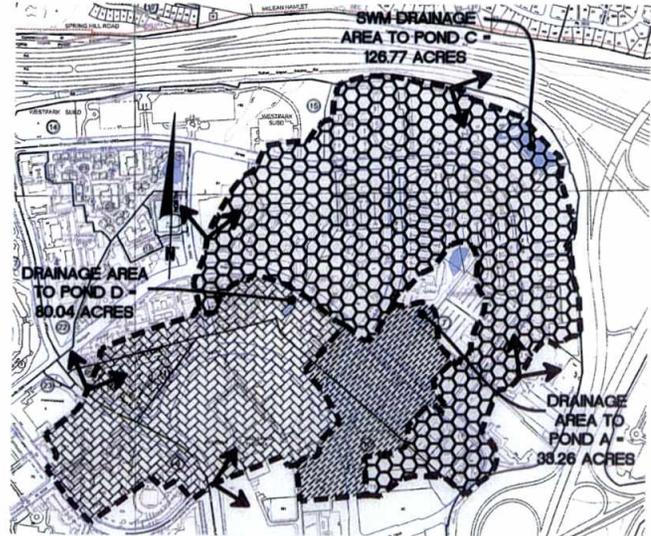
Area	Area
Area 1 = 5,388 Ac	Area 2 = 13,970 Ac
Re. Impervious % = 55%	Re. Impervious % = 62%
Re. C-Factor = 0.63	Re. C-Factor = 0.67
Prop. Impervious % = 73%	Prop. Impervious % = 76%
Prop. C-Factor = 0.73	Prop. C-Factor = 0.77

IMPERVIOUS AREA = [Symbol]
PERVIOUS AREA = [Symbol]



4 BMP MAP
SCALE: 1"=500'

PER PLAN #6377-P1-01, POND C WAS DESIGNED TO TREAT A DRAINAGE AREA OF 167.81 ACRES, WITH A C-FACTOR OF 0.80.



5 SWM MAP
SCALE: 1"=500'

SWM NARRATIVE GENERAL INFO:
THE SUBJECT SITES OF THIS APPLICATION, THE FREDERICK, ESSEX, CAMPBELL, SCOTT, GRAYSON, FRANKLIN, AND LOCATED ON VFA CD 16A MAP PARCELS 0294(77)-0010, 0294(77)-0009, 0294(77)-0003, 0294(77)-0002, 0294(77)-0001, 0294(77)-0004, 0294(77)-0005, 0294(77)-0006, 0294(77)-0007, 0294(77)-0008, 0294(77)-0009, 0294(77)-0010, 0294(77)-0011, 0294(77)-0012, 0294(77)-0013, 0294(77)-0014, 0294(77)-0015, 0294(77)-0016, 0294(77)-0017, 0294(77)-0018, 0294(77)-0019, 0294(77)-0020, 0294(77)-0021, 0294(77)-0022, 0294(77)-0023, 0294(77)-0024, 0294(77)-0025, 0294(77)-0026, 0294(77)-0027, 0294(77)-0028, 0294(77)-0029, 0294(77)-0030, 0294(77)-0031, 0294(77)-0032, 0294(77)-0033, 0294(77)-0034, 0294(77)-0035, 0294(77)-0036, 0294(77)-0037, 0294(77)-0038, 0294(77)-0039, 0294(77)-0040, 0294(77)-0041, 0294(77)-0042, 0294(77)-0043, 0294(77)-0044, 0294(77)-0045, 0294(77)-0046, 0294(77)-0047, 0294(77)-0048, 0294(77)-0049, 0294(77)-0050, 0294(77)-0051, 0294(77)-0052, 0294(77)-0053, 0294(77)-0054, 0294(77)-0055, 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BLOCK A1 LEED COMPUTATIONS:

GRAPHICAL PEAK DISCHARGE METHOD Version 2.10

Project: WESTPARK REDEVELOPMENT User: RSD
 County: FAIRFAX State: VA Checked: Date: 01-31-2011
 SubTitle: EXISTING CONDITIONS BLOCK A1

Data: Drainage Area: 2.66 Acres
 Runoff Curve Number: 71
 Time of Concentration: 0.10 Hours
 Rainfall Type: NONE
 Pond and Swamp Area: NONE

Storm Number	1	2	3
Frequency (yrs)	1	2	10
24-Hr Rainfall (in)	2.7	3.2	5.5
IA/P Ratio	0.27	0.23	0.13
runoff (in)	0.68	0.98	2.68
Unit Peak Discharge (cfs/acre/in)	1.478	1.502	1.558
Pond and Swamp Factor (0.0% Ponds Used)	1.00	1.00	1.00
Peak Discharge (CFS)	8	4	11

TOTAL RUNOFF VOLUME (EXISTING CONDITIONS)

1 YR STORM: 2.66 AC X 0.68 (IN) X 1.478 (CFS/AC) = 6,566 CU. FT.
 2 YR STORM: 2.66 AC X 0.98 (IN) X 1.502 (CFS/AC) = 9,463 CU. FT.
 10 YR STORM: 2.66 AC X 2.68 (IN) X 1.558 (CFS/AC) = 25,878 CU. FT.

Proposed Block A1.PEM GRAPHICAL PEAK DISCHARGE METHOD Version 2.10

Project: WESTPARK REDEVELOPMENT User: RSD
 County: FAIRFAX State: VA Checked: Date: 01-31-2011
 SubTitle: PROPOSED CONDITIONS BLOCK A1

Data: Drainage Area: 2.66 Acres
 Runoff Curve Number: 92
 Time of Concentration: 0.10 Hours
 Rainfall Type: NONE
 Pond and Swamp Area: NONE

Storm Number	1	2	10
Frequency (yrs)	1 <td>2</td> <td>10</td>	2	10
24-Hr Rainfall (in)	2.7	3.2	5.5
IA/P Ratio	0.06	0.05	0.03
runoff (in)	0.10	0.10	0.10
Unit Peak Discharge (cfs/acre/in)	1.88	2.35	4.58
Unit Peak Discharge (cfs/acre/in)	1.578	1.578	1.578
Pond and Swamp Factor (0.0% Ponds Used)	1.00	1.00	1.00
Peak Discharge (CFS)	8	10	19

TOTAL RUNOFF VOLUME (PROPOSED CONDITIONS)

1 YR STORM: 2.66 AC X 0.10 (IN) X 1.88 (CFS/AC) = 18,153 CU. FT.
 2 YR STORM: 2.66 AC X 0.10 (IN) X 2.35 (CFS/AC) = 22,692 CU. FT.
 10 YR STORM: 2.66 AC X 4.58 (IN) X 4.58 (CFS/AC) = 44,224 CU. FT.

TOTAL RUNOFF VOLUME (ALLOWABLE RELEASE)

PER LEED POST-DEVELOPED VOLUME FOR THE 1 YEAR AND 2 YEAR STORMS MUST NOT EXCEED THE EXISTING CONDITIONS VOLUME. THEREFORE ANY ADDITIONAL STORAGE REQUIRED SHALL BE MET WITH A RELEASE VAULT.

1-YEAR STORM: 18,153 CU. FT. - 6,566 CU. FT. = 11,587 CU. FT.
 2-YEAR STORM: 22,692 CU. FT. - 9,463 CU. FT. = 13,229 CU. FT.

1" COMPREHENSIVE PLAN NOTE:

THE INFILTRATION VOLUME IS TO BE DETERMINED AT FDP. IT IS NOT PRACTICABLE TO RETAIN SMALL AREAS OF THE SITE PERMANENTLY OUT OF THE GRADING. HOWEVER, THE FULL 1-INCH RAIN EVENT CAN BE RETAINED ON SITE BY OVER DETENTION UP TO 1.4-INCHES OF RAIN THAT FALLS ON THE BUILDING ROOF IF THE RUNOFF REDUCTION MEASURES AND COMPUTATIONS SHOWN HEREIN ARE APPROVED BY THE COUNTY. IF THE RUNOFF REDUCTION MEASURES AND/OR COMPUTATIONS SHOWN HEREIN ARE NOT APPROVED BY DPMS, THE APPLICANT WILL WORK WITH THE COUNTY TO RETAIN THE FIRST 1-INCH OF RAINFALL TO THE EXTENT PRACTICABLE IN ACCORDANCE WITH THE COMPREHENSIVE PLAN GOAL.

IN FURTHERANCE OF THE APPLICANT'S COMMITMENTS HEREIN AND WHILE IT INTENDS TO MEET THE 1-INCH USING THE TECHNIQUES SHOWN, IT RESERVES THE RIGHT TO UTILIZE ANY COMBINATION OF LID (EXISTING AND FUTURE) MEASURES TO MEET THIS GOAL SUBJECT TO THE REVIEW AND APPROVAL OF DPMS AT TIME OF SITE PLAN.

RECOGNIZING THAT RUNOFF REDUCTION TECHNOLOGIES ARE RELATIVELY NEW AND STILL EVOLVING, SHOULD THE APPLICANT'S FINAL DESIGN DEVELOPMENT AND/OR DPMS COMMENTS ON THE SITE PLAN RESULT IN CHANGES TO THE LID MEASURES SHOWN ON THE COP AND/OR FDP, INCLUDING BUT NOT LIMITED TO, ELIMINATION OR ADDITION OF MEASURES SO LONG AS THESE CHANGES DO NOT AFFECT THE GRID OF STREETS, THE GENERAL LOCATION OF THE POINTS OF ACCESS TO EACH BLOCK, THE GENERAL LOCATION OF THE BUILDINGS, THE BUILD-TO LINES, THE MINIMUM AMOUNT AND GENERAL LOCATION OF PUBLICLY-ACCESS URBAN PARK LAND AS MAY BE APPLICABLE FOR EACH BLOCK AND THE GENERAL QUALITY AND CHARACTER OF THE STREETSCAPE ALONG THE PUBLIC AND PRIVATE STREETS WITHIN AND ADJUTING THE SUBJECT PROPERTY AND AS OTHERWISE SPECIFIED IN THE PROFFERS.

RUNOFF FLOWRATE COMPUTATIONS:

Amount of Site Area (Ac) Per Hydrologic Soil Group *Per Solls Map approximately 100% type B

Type A	Type B	Type C	Type D
0	2.66	0	0

Baseline Flow Rates
 Land Use = Ex Conditions (0% Imp)

Type A	Type B	Type C	Type D
37	79	92	86

Weighted CN for site: 75

S for CN to C Calc: 3.70

Design Storm 24-hr Rainfall Depth (in)	1-yr	2-yr	10-yr
2.7	3.2	5.5	

Equivalent C	1-yr	2-yr	10-yr
	0.25	0.31	0.49

Type A	Type B	Type C	Type D
89	82	94	95

Weighted CN for site: 92

S for CN to C Calc: 0.87

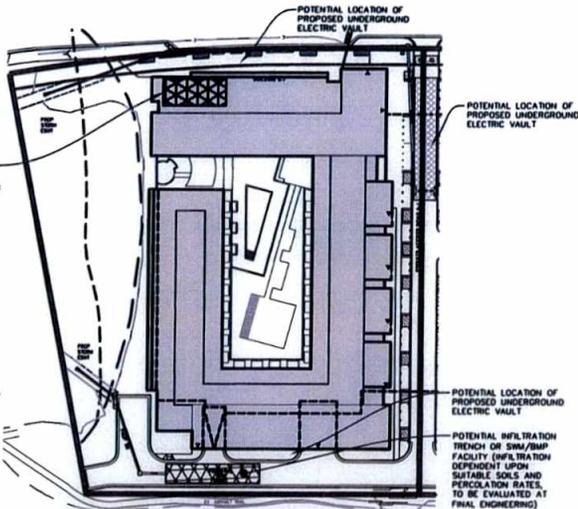
Design Storm 24-hr Rainfall Depth (in)	1-yr	2-yr	10-yr
2.7	3.2	5.5	

Equivalent C	1-yr	2-yr	10-yr
	0.70	0.73	0.83

ALLOWABLE RELEASE RATE:

PER LEED POST-DEVELOPED RELEASE RATE FOR THE 1 YEAR AND 2 YEAR STORM MUST NOT EXCEED THE EXISTING CONDITIONS RELEASE RATE. IN ADDITION, THE POST DEVELOPED TO YEAR PEAK RATE MUST NOT EXCEED THE EXISTING CONDITIONS PEAK RATE.

** NOTE: PROPOSED CONDITIONS, COMPUTATIONS, AND STORAGE VOLUMES FOR RE-USE ARE BASED ON A PROPOSED IMPERVIOUS PERCENTAGE OF 88%. FINAL SWM DESIGN, VAULT SIZE, STORAGE CAPACITY, RE-USE QUANTITY, ETC. SHALL BE BASED ON THE ACTUAL PROPOSED IMPERVIOUS PERCENTAGE AT THE TIME OF FINAL SITE PLAN.



BLOCK A1 SWM VAULT LOCATION

SCALE 1"=40'

BLOCK A1 SWM NARRATIVE:

COMPREHENSIVE PLAN (1" RUNOFF RETENTION REQUIREMENT):

THE PROPOSED BLOCK A1 HAS A PROPERTY AREA OF 2.66 ACRES, OF WHICH 1" OF RUNOFF IS REQUIRED TO BE RETAINED, TO THE MAXIMUM EXTENT PRACTICABLE, BY MEANS OF INFILTRATION, EVAPOTRANSPIRATION, AND/OR REUSE TO MEET THE CURRENT GOALS AND STANDARDS OF THE "TYSONS CORNER COMPREHENSIVE PLAN AMENDMENT." THE GOAL IS TO CAPTURE THE FIRST 1" OF RAINFALL DUE TO THE LIMITED LEVEL OF PROJECT DESIGN DETAIL, SUCH AS BUILDING SYSTEMS, COOLING TOWER AND WATER RE-USE DEMANDS, AND BUILDING TENANT REQUIREMENTS, THAT IS AVAILABLE TO BOWMAN AT THE TIME OF COP SUBMISSION. THE 1" RETENTION REQUIREMENT MAY NOT BE A FULLY ACHIEVABLE GOAL AT THIS TIME. HOWEVER, MORE DETAILED COMPUTATIONS WILL BE PROVIDED WITH THE FDP SUBMISSION OF THE MEASURES LISTED IN THE "TYSONS CORNER COMPREHENSIVE PLAN STORMWATER COMPLIANCE SPREADSHEET" AND THE "TYSONS CORNER COMPREHENSIVE PLAN STORMWATER COMPLIANCE FLOCHART." THE MOST Viable OPTIONS INCLUDE: RAINWATER HARVESTING CISTERN, STORMWATER PLANTERS, TREEPITS, CURB EXTENSIONS, VEGETATED GREEN ROOF, AND PERMAIBLE PAVEMENT.

INFILTRATION FACILITIES WOULD BE THE IDEAL PRACTICE. THE PREFERRED LOCATION FOR THE INFILTRATION FACILITIES WOULD BE IN THE REAR OF THE PROPERTY IN DRIVE AISLE BETWEEN THE BUILDING AND THE SOUTHERN PROPERTY LINE. HOWEVER, THE SUITABILITY OF THE SITE SOILS TO PROVIDE INFILTRATION IS STILL UNDER INVESTIGATION AT THIS TIME.

ROOF RAINWATER HARVESTING WILL BE UTILIZED TO CAPTURE ANYWHERE FROM 1" TO 1.4" OF RAINWATER THAT FALLS ONTO THE BUILDING AND GARAGE FOOTPRINT. THIS AREA IS MADE UP OF A COMBINATION OF VEGETATED ROOF AND IMPERVIOUS AREA. WATER THAT FALLS ONTO THE VEGETATED ROOFS WILL BE LINKED IN SERIES TO THE CISTERN VIA UNDERDRAINS WITHIN THE BUILDING.

DISCONNECTED STORMWATER PLANTERS, TREEPITS, AND CURB EXTENSIONS ARE PROPOSED IN THE SIDEWAYS ALONG WESTPARK DRIVE (RT. 5061), THE PRIVATE STREET BETWEEN BLOCKS A1 AND A2, AND IN THE PRIVATE STREET BETWEEN THE REAR OF THE BUILDING OF BLOCK A1 AND THE SOUTHERN PROPERTY LINE. THESE MEASURES ARE EXPECTED TO COLLECT IMPERVIOUS AREAS AND MANAGED TURF COVER OUTSIDE OF THE BUILDING FOOTPRINT.

PERMAIBLE PAVEMENT IS A POTENTIAL PRACTICE THAT IS PROPOSED IN THE SIDEWALK ALONG BLOCK A1'S FRONTAGE WITH WESTPARK DRIVE (RT. 5061) AND COULD BE USED IN THE DRIVE AISLE BETWEEN BLOCKS A1 AND A2, AND THE REAR DRIVE AISLE; HOWEVER, THE WEIGHT OF SERVICE VEHICLES THAT WILL BE TRAVELING ON THE DRIVE AISLE AND THE RISK OF POLLUTANTS/CONTAMINANTS DRAINING THROUGH THE PAVEMENT NEAR THE SERVICE ENTRANCES LEAD TO THE CONCLUSION THAT PERMAIBLE PAVEMENT IS NOT A PRACTICABLE OPTION IN THE DRIVE AISLES BUT IS PRACTICAL IN THE PROPOSED SIDEWALK LOCATION.

LOW IMPACT DEVELOPMENT (LID) TECHNIQUES TO BE UTILIZED INCLUDE BIOTENTHED TREE PITS AND STORMWATER PLANTERS, GREEN ROOFS, AND LID BASIN TYPES "A", "B", AND "C". BIOTENTHED TREE PITS ARE INCORPORATED INTO THE PROPOSED STREET AND SIDEWALK DESIGN TO TREAT WATER THAT WOULD NORMALLY FLOW INTO INLETS AND GO UNTREATED. WATER WILL ENTER THESE TREE PITS AND BE TREATED BEFORE GOING DOWNSTREAM IN THE UNDERGROUND STORM SEWER SYSTEM. SEE LOW IMPACT DEVELOPMENT CONCEPT PLAN, SHEET C10.8, FOR FURTHER DETAIL.

A CONSERVATION AREA IS LOCATED BETWEEN THE EASTERN PROPERTY LINE AND THE PROPOSED BUILDING ON BLOCK A1. THIS AREA IS WITHIN THE RPA SO NO CONSTRUCTION OR GRADING CAN TAKE PLACE WITHIN THIS ZONE.

DUO TO THE URBAN NATURE OF THIS SITE, THE BUILDING LAYOUT, AMOUNT OF SOIL TO BE DISTURBED, AND AVAILABLE GREEN SPACE, THE FOLLOWING RUNOFF REDUCTION PRACTICES ARE NOT FEASIBLE OPTIONS: VEGETATED FILTER STRIPS, EXTENDED DETENTION POND, GRASS CHANNEL, DRY SWALE, AND BIOTENTHED.

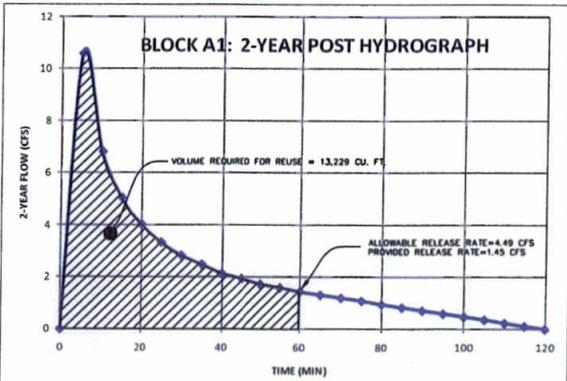
ACCORDING TO THE "TYSONS CORNER COMPREHENSIVE PLAN AMENDMENT" RESTORATION AND/OR STABILIZATION OF DEGRADED STREAMS ON DEVELOPMENT SITES SHALL BE PURSUED WHERE FEASIBLE, NO STREAMS OR CHANNELS ARE PRESENT ON BLOCK A1. THE PROPOSED STORMWATER RUNOFF REDUCTION MEASURES ARE INTENDED TO IMPROVE STORMWATER MANAGEMENT CONTROLS SUFFICIENTLY WHICH WILL IMPROVE THE HABITAT AND RECREATIONAL VALUES OF STREAMS IN TYSONS CORNER.

SUMMARY:

TO THE MAXIMUM EXTENT POSSIBLE, THE FIRST INCH OF RAINFALL WILL BE RETAINED ON-SITE THROUGH INFILTRATION, EVAPOTRANSPIRATION AND/OR REUSE. WHERE IT HAS BEEN DEMONSTRATED TO NOT BE FULLY ACHIEVABLE, ALL AVAILABLE MEASURES WILL BE IMPLEMENTED TO THE EXTENT POSSIBLE IN ORDER TO SUPPORT THIS GOAL AND ACHIEVE PARTIAL RETENTION OF THE FIRST INCH OF RAINFALL. AT THE TIME OF FDP, WHEN THE PREVIOUSLY MENTIONED PROJECT DESIGN DETAILS ARE KNOWN, THIS NARRATIVE AND ASSOCIATED COMPUTATIONS WILL BE AMENDED ACCORDINGLY.

NOTE:

1. STORMWATER MANAGEMENT (SWM) AND BEST MANAGEMENT PRACTICES (BMP) ANALYSES, NARRATIVES, AND PROPOSED DESIGN AND/OR FACILITIES PRESENTED HEREIN ARE PRELIMINARY BASED ON PROPOSED COP APPLICATION AND ARE SUBJECT TO REVISION WITH FINAL SITE PLAN APPLICATIONS.
2. THE APPLICANT RESERVES THE RIGHT TO VARY THE NUMBER, SIZE, SHAPE, AND LOCATION OF THE LID PRACTICES WITH FINAL ENGINEERING.



SWM NOTE:

BY MEETING THE REQUIRED VOLUME REUSE FOR THE 1 YEAR AND 2 YEAR STORMS THE PEAK ATTENUATION HAS AUTOMATICALLY BEEN MET FOR THE 1 YEAR, 2 YEAR, AND 10 YEAR STORMS.

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PLAN STATUS

01/27/11	PER COUNTY COMMISSION
02/02/11	PER COUNTY COMMISSION
02/22/11	PER COUNTY COMMISSION
03/01/11	PER COUNTY COMMISSION
03/22/11	PER COUNTY COMMISSION
04/01/11	PER COUNTY COMMISSION
04/22/11	PER COUNTY COMMISSION
05/01/11	PER COUNTY COMMISSION
05/22/11	PER COUNTY COMMISSION
06/01/11	PER COUNTY COMMISSION

SCALE: REAR SHOWN

JOB No: _____

DATE: APRIL 26, 2011

FILE No: 7403-07-001

SHEET: C10.1

BLOCK A2 LEED COMPUTATIONS:

Existing Block A2.FIN
GRAPHICAL PEAK DISCHARGE METHOD Version 2.10

Project: WESTPARK REDEVELOPMENT State: VA User: RSD Date: 01-11-2011
 County: FAIRFAX Checked: Date:
 Subtitle: EXISTING CONDITIONS BLOCK A2

Data: Drapage Area: 2.73 Acres
 Runoff Curve Number: 52 Hours
 Time of Concentration: 0.10 Hours
 Rainfall Type: NONE
 Pond and Swamp Area: NONE

Storm Number	1	2	3
Frequency (yrs)	1	2	10
24-hr Rainfall (in)	2.7	3.2	5.5
Ia/P Ratio	0.27	0.23	0.13
Runoff (in)	0.68	0.98	2.68
Unit Peak Discharge (cfs/acre/in)	1.478	1.502	1.558
Pond and Swamp Factor (0.0% Ponds Used)	1.00	1.00	1.00
Peak Discharge (cfs)	3	4	11

TOTAL RUNOFF VOLUME (EXISTING CONDITIONS)
 1 yr STORM: 2.73 AC X 0.68 (IN) X 1.478 (CFS/AC/IN) X 43560 (SF/AC) = 6,739 CU. FT.
 2 yr STORM: 2.73 AC X 0.98 (IN) X 1.478 (CFS/AC/IN) X 43560 (SF/AC) = 9,712 CU. FT.
 10 yr STORM: 2.73 AC X 2.68 (IN) X 1.478 (CFS/AC/IN) X 43560 (SF/AC) = 36,509 CU. FT.

Proposed Block A2.FIN
GRAPHICAL PEAK DISCHARGE METHOD Version 2.10

Project: WESTPARK REDEVELOPMENT State: VA User: RSD Date: 01-11-2011
 County: PROPOSED CONDITIONS BLOCK A2 Checked: Date:
 Subtitle: PROPOSED CONDITIONS BLOCK A2

Data: Drapage Area: 2.73 Acres
 Runoff Curve Number: 82 Hours
 Time of Concentration: 0.10 Hours
 Rainfall Type: NONE
 Pond and Swamp Area: NONE

Storm Number	1	2	3
Frequency (yrs)	1	2	10
24-hr Rainfall (in)	2.7	3.2	5.5
Ia/P Ratio	0.26	0.05	0.03
used	1.00	0.10	0.10
Runoff (in)	0.88	2.35	4.58
Unit Peak Discharge (cfs/acre/in)	1.578	1.578	1.578
Pond and Swamp Factor (0.0% Ponds Used)	1.00	1.00	1.00
Peak Discharge (cfs)	4	10	20

TOTAL RUNOFF VOLUME (PROPOSED CONDITIONS)
 1 yr STORM: 2.73 AC X 1.88 (IN) X 1.478 (CFS/AC/IN) X 43560 (SF/AC) = 18,631 CU. FT.
 2 yr STORM: 2.73 AC X 2.35 (IN) X 1.478 (CFS/AC/IN) X 43560 (SF/AC) = 23,289 CU. FT.
 10 yr STORM: 2.73 AC X 4.58 (IN) X 1.478 (CFS/AC/IN) X 43560 (SF/AC) = 45,388 CU. FT.

TOTAL RUNOFF VOLUME (ALLOWABLE RELEASE)
 PER LEED POST-DEVELOPED VOLUME FOR THE 1 YEAR AND 2 YEAR STORMS MUST NOT EXCEED THE EXISTING CONDITIONS VOLUME. THEREFORE ANY ADDITIONAL STORAGE REQUIRED SHALL BE MET WITH A REUSE VAULT.

1-YEAR STORM
18,631 CU. FT. = 6,739 CU. FT. = 11,892 CU. FT.
 2-YEAR STORM
23,289 CU. FT. = 9,712 CU. FT. = 13,577 CU. FT.

1" COMPREHENSIVE PLAN NOTE:

THE INFILTRATION VOLUME IS TO BE DETERMINED AT FDP. IT IS NOT PRACTICABLE TO RETAIN SMALL AREAS OF THE SITE PERIMERY DUE TO REDUCED SITE GRADING. HOWEVER, THE FULL 1-INCH RAIN EVENT CAN BE RETAINED ON SITE BY OVER RETAINING UP TO 1.4-INCHES OF RAIN THAT FALLS ON THE BUILDING ROOF IF THE RUNOFF REDUCTION MEASURES AND COMPUTATIONS SHOWN HEREIN ARE APPROVED BY THE COUNTY. IF THE RUNOFF REDUCTION MEASURES AND/OR COMPUTATIONS SHOWN HEREIN ARE NOT APPROVED BY DPWS, THE APPLICANT WILL WORK WITH THE COUNTY TO RETAIN THE FIRST 1-INCH OF RAINFALL TO THE EXTENT PRACTICABLE IN ACCORDANCE WITH THE COMPREHENSIVE PLAN GOAL.

IN FURTHERANCE OF THE APPLICANT'S COMMENTS HEREIN AND WHILE IT INTENDS TO MEET THE 1-INCH USING THE TECHNIQUES SHOWN, IT RESERVES THE RIGHT TO UTILIZE ANY COMBINATION OF LID (EXISTING AND FUTURE) MEASURES TO MEET THIS GOAL SUBJECT TO THE REVIEW AND APPROVAL OF DPWS AT TIME OF SITE PLAN.

RECOGNIZING THAT RUNOFF REDUCTION TECHNOLOGIES ARE RELATIVELY NEW AND STILL EVOLVING, SHOULD THE APPLICANT'S FINAL DESIGN DEVELOPMENT AND/OR DPWS COMMENTS ON THE SITE PLAN RESULT IN CHANGES TO THE LID MEASURES SHOWN ON THE COP AND/OR FDP, INCLUDING BUT NOT LIMITED TO, ELIMINATION OR ADDITION OF MEASURES SO LONG AS THESE CHANGES DO NOT AFFECT THE GRID OF STREETS, THE GENERAL LOCATION OF THE POINTS OF ACCESS TO EACH BLOCK, THE GENERAL LOCATION OF THE BUILDING, THE BUILD-TO LINES, THE MINIMUM AMOUNT AND GENERAL LOCATION OF PUBLIC-ACCESS URBAN PARK LAND AS MAY BE APPLICABLE FOR EACH BLOCK AND THE GENERAL QUALITY AND CHARACTER OF THE STREETScape ALONG THE PUBLIC AND PRIVATE STREETS WITHIN AND ADJACENT TO THE SUBJECT PROPERTY AND AS OTHERWISE SPECIFIED IN THE PROFFERS.

RUNOFF FLOWRATE COMPUTATIONS:

Amount of Site Area (AC) Per Hydrologic Soil Group *
 *Per Soil Map approximately 100% type B

Total Site Area (ac)	2.73
Type A	0
Type B	2.73
Type C	0
Type D	0

Baseline Flow Rates
 Land Use = Ex Conditions (10% Imp)

Curve Number (CN) For Soil Type Per Land Use	Type A	Type B	Type C	Type D
	57	75	82	86

Weighted CN for site: 75

Design Storm 24-hr Rainfall Depth (in):
 1-yr: 2.7, 2-yr: 3.2, 10-yr: 5.5

Equivalent C:
 1-yr: 0.25, 2-yr: 0.31, 10-yr: 0.49

Per County Adequate Outfall Presentation Formula for the conversion from CN to rational method C-Factor (C):
 $C = 1 - ((5 \times (1.2 - (5 \times (P + 0.85))) / P))$
 where:
 P = 24-hr rainfall depth for design storm
 $S = (1000 / CN) - 30$

Design Storm Rainfall Intensity (I) in/hr	5 Minute TC
1-yr	3.27
2-yr	5.45
10-yr	7.27

Existing Conditions Peak Flow Rates cfs	1-yr	2-yr	10-yr
	2.73	4.61	9.73

Proposed Flow Rates
 *Land Use = Proposed Conditions (80% Imp)**

Curve Number (CN) For Soil Type Per Land Use	Type A	Type B	Type C	Type D
	80	92	94	95

Weighted CN for site: 92

Design Storm 24-hr Rainfall Depth (in):
 1-yr: 2.7, 2-yr: 3.2, 10-yr: 5.5

Equivalent C:
 1-yr: 0.70, 2-yr: 0.73, 10-yr: 0.83

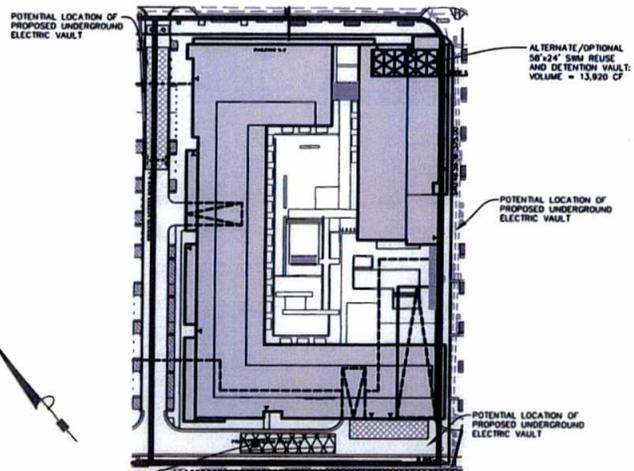
Per County Adequate Outfall Presentation Formula for the conversion from CN to rational method C-Factor (C):
 $C = 1 - ((5 \times (1.2 - (5 \times (P + 0.85))) / P))$
 where:
 P = 24-hr rainfall depth for design storm
 $S = (1000 / CN) - 30$

Design Storm Rainfall Intensity (I) in/hr	5 Minute TC
1-yr	3.27
2-yr	5.45
10-yr	7.27

Proposed Conditions Peak Flow Rates cfs	1-yr	2-yr	10-yr
	6.23	10.86	16.47

ALLOWABLE RELEASE RATE
 PER LEED POST-DEVELOPED RELEASE RATE FOR THE 1 YEAR AND 2 YEAR STORM MUST NOT EXCEED THE EXISTING CONDITIONS RELEASE RATE. IN ADDITION, THE POST DEVELOPED TO YEAR PEAK RATE MUST NOT EXCEED THE EXISTING CONDITIONS PEAK RATE.

** NOTE: PROPOSED CONDITIONS, COMPUTATIONS, AND STORAGE VOLUMES FOR RE-USE ARE BASED ON A PROPOSED IMPERVIOUS PERCENTAGE OF 80%. FINAL SWM DESIGN, VAULT SIZE, STORAGE CAPACITY, RE-USE QUANTITY, ETC. SHALL BE BASED ON THE ACTUAL PROPOSED IMPERVIOUS PERCENTAGE AT THE TIME OF FINAL SITE PLAN.



BLOCK A2 SWM VAULT LOCATION

POTENTIAL INFILTRATION TRENCH OR SWM/BMP FACILITY (INFILTRATION DEPENDENT UPON SUITABLE SOILS AND PERCOLATION RATES, TO BE EVALUATED AT FINAL ENGINEERING)

BLOCK A2 SWM NARRATIVE: COMPREHENSIVE PLAN (1" RUNOFF RETENTION REQUIREMENT):

THE PROPOSED BLOCK A2 HAS A PROPERTY AREA OF 2.73 ACRES, OF WHICH 1" OF RUNOFF IS REQUIRED TO BE RETAINED, TO THE MAXIMUM EXTENT PRACTICABLE, BY MEANS OF INFILTRATION, EVAPOTRANSPIRATION AND/OR REUSE TO MEET THE CURRENT GOALS AND STANDARDS OF THE TYSONS CORNER COMPREHENSIVE PLAN AMENDMENT. THE GOAL IS TO CAPTURE THE FIRST 1" OF RAINFALL RUNOFF, DUE TO THE LIMITED LEVEL OF PROJECT DESIGN DETAIL, SUCH AS BUILDING SYSTEMS, COOLING TOWER AND WATER RE-USE DEMANDS, AND BUILDING TENANT REQUIREMENTS, THAT IS AVAILABLE TO ROMARK AT THE TIME OF COP SUBMISSION, THE 1" RETENTION REQUIREMENT MAY NOT BE A FULLY ADEQUATE GOAL AT THIS TIME. HOWEVER, MORE DETAILED COMPUTATIONS WILL BE PROVIDED WITH THE FDP SUBMISSION. OF THE MEASURES LISTED IN THE TYSONS CORNER COMPREHENSIVE PLAN STORMWATER PERFORMANCE SPREADSHEET AND THE TYSONS CORNER COMPREHENSIVE PLAN STORMWATER COMPLIANCE FLOWCHART* THE MOST Viable OPTIONS INCLUDE: RAINWATER HARVESTING SYSTEMS, STORMWATER PLANTERS, TREES, CURB EXTENSIONS, VEGETATED GREEN ROOF, AND PERMEABLE PAVEMENT.

INFILTRATION FACILITIES WOULD BE THE IDEAL PRACTICE, THE PREFERRED LOCATION FOR THE INFILTRATION FACILITIES WOULD BE IN THE REAR OF THE PROPERTY IN DRIVE ASLE BETWEEN THE BUILDING AND THE SOUTHERN PROPERTY LINE. HOWEVER, THE SUITABILITY OF THE SITE SOILS TO PROVIDE INFILTRATION IS STILL UNDER INVESTIGATION AT THIS TIME.

ROOF RAINWATER HARVESTING WILL BE UTILIZED TO CAPTURE ANYWHERE FROM 1" TO 1.4" OF RAINWATER THAT FALLS INTO THE BUILDING AND GARAGE FOOTPRINT. THIS AREA IS MADE UP OF A COMBINATION OF VEGETATED ROOF AND IMPERVIOUS AREA. WATER THAT FALLS INTO THE VEGETATED ROOFS WILL BE LINKED IN SERIES TO THE CISTERN VIA UNDERDRAINS WITHIN THE BUILDING.

DISCONNECTED STORMWATER PLANTERS, TREES, AND CURB EXTENSIONS ARE PROPOSED IN THE SIDEWALKS ALONG WESTPARK DRIVE (RT. 5061) AND WESTBRANCH DRIVE (RT. 5457), AND IN THE PRIVATE STREET BETWEEN BLOCKS A1 AND A2. THESE MEASURES ARE EXPECTED TO COLLECT IMPERVIOUS AREAS AND MANAGED TURF COVER OUTSIDE OF THE BUILDING FOOTPRINT.

PERMEABLE PAVEMENT IS A POTENTIAL PRACTICE THAT IS PROPOSED IN THE SIDEWALK ALONG BLOCK A2'S FRONTAGE WITH WESTPARK DRIVE (RT. 5061) AND COULD BE USED IN THE DRIVE ASLE BETWEEN BLOCKS A1 AND A2, AND THE REAR DRIVE ASLE; HOWEVER, THE WEIGHT OF SERVICE VEHICLES THAT WILL BE TRAVELING ON THE DRIVE ASLE AND THE RISK OF POLLUTANTS/CONTAMINANTS DRIVING THROUGH THE PAVEMENT NEAR THE SERVICE ENTRANCES LEAD TO THE CONCLUSION THAT PERMEABLE PAVEMENT IS NOT A PRACTICABLE OPTION IN THE DRIVE ASLES BUT IS PRACTICAL IN THE PROPOSED SIDEWALK LOCATION.

LOW IMPACT DEVELOPMENT (LID) TECHNIQUES TO BE UTILIZED INCLUDE BIORETENTION TREE PITS AND STORMWATER PLANTERS, GREEN ROOFS, AND LID BASIN TYPES 'A', 'B', AND 'C'. BIORETENTION TREE PITS ARE INCORPORATED INTO THE PROPOSED STREET AND SIDEWALK DESIGN TO TREAT WATER THAT WOULD NORMALLY FLOW INTO INLETS AND GO UNTREATED. WATER WILL ENTER THESE TREE PITS AND BE TREATED BEFORE GOING DOWNSTREAM IN THE UNDERGROUND STORM SEWER SYSTEM. SEE 'LOW IMPACT DEVELOPMENT CONCEPT PLAN' SHEET C103, FOR FURTHER DETAIL.

DUE TO THE URBAN NATURE OF THIS SITE, THE BUILDING LAYOUT, AMOUNT OF SOIL TO BE DISTURBED, AND AVAILABLE GREEN SPACE, THE FOLLOWING RUNOFF REDUCTION PRACTICES ARE NOT FEASIBLE: OPTIONS VEGETATED FILTER STRIPS, EXTENDED DETENTION POND, CONSERVATION AREA GRASS CHANNEL, DRY SWALE, AND BIORETENTION.

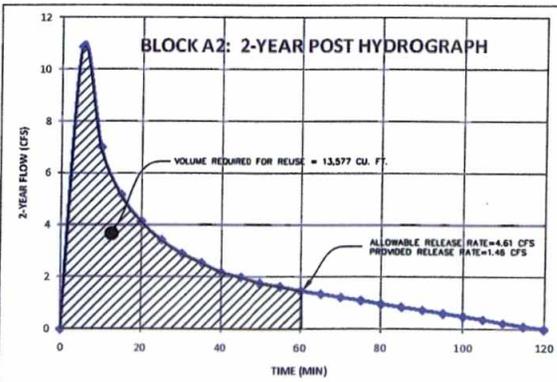
ACCORDING TO THE TYSONS CORNER COMPREHENSIVE PLAN AMENDMENT, RESTORATION AND/OR STABILIZATION OF DEGRADED STREAMS ON DEVELOPMENT SITES SHALL BE PULSED WHERE FEASIBLE. NO STREAMS OR CHANNELS ARE PRESENT ON BLOCK A2. THE PROPOSED STORMWATER RUNOFF REDUCTION MEASURES ARE INTENDED TO IMPROVE STORMWATER MANAGEMENT CONTROLS SUFFICIENTLY WHICH WILL IMPROVE THE HABITAT AND RECREATIONAL VALUES OF STREAMS IN TYSONS CORNER.

SUMMARY:

TO THE MAXIMUM EXTENT POSSIBLE, THE FIRST INCH OF RAINFALL WILL BE RETAINED ON-SITE THROUGH INFILTRATION, EVAPOTRANSPIRATION AND/OR REUSE. WHERE IT HAS BEEN DEMONSTRATED TO NOT BE FULLY ACHIEVABLE, ALL AVAILABLE MEASURES WILL BE IMPLEMENTED TO THE EXTENT POSSIBLE IN ORDER TO SUPPORT THIS GOAL AND ACHIEVE PARTIAL RETENTION OF THE FIRST INCH OF RAINFALL AT THE TIME OF FDP. WHEN THE PREVIOUSLY MENTIONED PROJECT DESIGN DETAILS ARE KNOWN, THIS NARRATIVE AND ASSOCIATED COMPUTATIONS WILL BE AMENDED ACCORDINGLY.

NOTE:

1. STORMWATER MANAGEMENT (SWM) AND BEST MANAGEMENT PRACTICES (BMP) ANALYSIS, NARRATIVES, AND PROPOSED DESIGN AND/OR FACILITIES PRESENTED HEREIN ARE PRELIMINARY BASED ON PROPOSED COP APPLICATION AND ARE SUBJECT TO REVISION WITH FINAL SITE PLAN APPLICATIONS.
2. THE APPLICANT RESERVES THE RIGHT TO VARY THE NUMBER, SIZE, SHAPE, AND LOCATION OF THE LID PRACTICES WITH FINAL ENGINEERING.



SWM NOTE:
 BY MEETING THE REQUIRED VOLUME REUSE FOR THE 1 YEAR AND 2 YEAR STORMS THE PEAK ATTENUATION HAS AUTOMATICALLY BEEN MET FOR THE 1 YEAR, 2 YEAR, AND 10 YEAR STORMS.

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BLOCK A2 SWM COMPUTATIONS
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	DATE	BY	DESCRIPTION
PER COUNTY COMPLETION	01/27/11	PER COUNTY COMPLETION	SCALE REAS 14'-0"=1"
PER COUNTY COMPLETION	01/27/11	PER COUNTY COMPLETION	JOB No.
PER COUNTY COMPLETION	01/27/11	PER COUNTY COMPLETION	DATE APRIL 26, 2011
PER COUNTY COMPLETION	01/27/11	PER COUNTY COMPLETION	FILE No. 7403-07-001
PER COUNTY COMPLETION	01/27/11	PER COUNTY COMPLETION	
PER COUNTY COMPLETION	01/27/11	PER COUNTY COMPLETION	
PER COUNTY COMPLETION	01/27/11	PER COUNTY COMPLETION	
PER COUNTY COMPLETION	01/27/11	PER COUNTY COMPLETION	
PER COUNTY COMPLETION	01/27/11	PER COUNTY COMPLETION	

SHEET C10.2

BLOCK C LEED COMPUTATIONS:

Version 2.10

Project: WESTPARK REDEVELOPMENT
 County: FAIRFAX State: VA
 Subtitle: EXISTING CONDITIONS BLOCK C

User: RSD Date: 01-31-2011
 Checked: Date:

Data: Drainage Area: 4.9 Acres
 Runoff Curve Number: 7.7
 Time of Concentration: 0.10 Hours
 Rainfall Type: II
 Pond and Swamp Area: NONE

Storm Number	1	2	3
Frequency (Yrs)	1	2	10
24-Hr Rainfall (in)	2.7	3.2	5.5
Ia/P Ratio	0.27	0.23	0.13
Runoff (in)	0.68	0.98	2.68
Unit Peak Discharge (cfs/acre/in)	1.478	1.502	1.558
Pond and Swamp Factor	1.00	1.00	1.00
0.10 Pond Used	22	22	22
Peak Discharge (cfs)	5	7	20

TOTAL RUNOFF VOLUME (EXISTING CONDITIONS)
 1 YR STORM: 4.90 AC X 0.68 (IN) X 1.478 (CFS/ACR/IN) = 12,096 CU. FT.
 2 YR STORM: 4.90 AC X 0.98 (IN) X 1.478 (CFS/ACR/IN) = 17,432 CU. FT.
 10 YR STORM: 4.90 AC X 2.68 (IN) X 1.478 (CFS/ACR/IN) = 47,870 CU. FT.

Proposed Block C, P/W
 GRAPHICAL PEAK DISCHARGE METHOD

Version 2.10

Project: WESTPARK REDEVELOPMENT
 County: FAIRFAX State: VA
 Subtitle: PROPOSED CONDITIONS BLOCK C

User: RSD Date: 01-31-2011
 Checked: Date:

Data: Drainage Area: 4.9 Acres
 Runoff Curve Number: 0.10
 Time of Concentration: 0.10 Hours
 Rainfall Type: NONE
 Pond and Swamp Area: NONE

Storm Number	1	2	3
Frequency (Yrs)	1	2	10
24-Hr Rainfall (in)	2.7	3.2	5.5
Ia/P Ratio	0.06	0.01	0.03
Runoff (in)	0.10	0.10	0.10
Unit Peak Discharge (cfs/acre/in)	1.478	1.578	1.578
Pond and Swamp Factor	1.00	1.00	1.00
Peak Discharge (cfs)	15	18	35

TOTAL RUNOFF VOLUME (PROPOSED CONDITIONS)
 1 YR STORM: 4.90 AC X 1.00 (IN) X 1.478 (CFS/ACR/IN) = 33,440 CU. FT.
 2 YR STORM: 4.90 AC X 2.35 (IN) X 1.478 (CFS/ACR/IN) = 41,800 CU. FT.
 10 YR STORM: 4.90 AC X 4.58 (IN) X 1.478 (CFS/ACR/IN) = 81,465 CU. FT.

TOTAL RUNOFF VOLUME (ALLOWABLE RELEASES)
 PER LEED POST-DEVELOPED VOLUME FOR THE 1 YEAR AND 2 YEAR STORMS MUST NOT EXCEED THE EXISTING CONDITIONS VOLUME. THEREFORE ANY ADDITIONAL STORAGE REQUIRED SHALL BE MET WITH A REUSE VAULT.

1-YEAR STORM: 33,440 CU. FT. - 12,096 CU. FT. = 21,344 CU. FT.
 2-YEAR STORM: 41,800 CU. FT. - 17,432 CU. FT. = 24,368 CU. FT.

1" COMPREHENSIVE PLAN NOTE:

THE INFILTRATION VOLUME TO BE DETERMINED AT FDP. IT IS NOT PRACTICABLE TO RETAIN SMALL AREAS OF THE SITE PERIPHERY DUE TO REQUIRED SITE GRADING, HOWEVER, THE FULL 1-INCH RAIN EVENT CAN BE RETAINED ON SITE BY OVER RETAINING UP TO 1.4-INCHES OF RAIN THAT FALLS ON THE BUILDING ROOF IF THE RUNOFF REDUCTION MEASURES AND COMPUTATIONS SHOWN HEREIN ARE APPROVED BY THE COUNTY. IF THE RUNOFF REDUCTION MEASURES AND/OR COMPUTATIONS SHOWN HEREIN ARE NOT APPROVED BY SPW, THE APPLICANT WILL WORK WITH THE COUNTY TO RETAIN THE FIRST 1-INCH OF RAINFALL TO THE EXTENT PRACTICABLE IN ACCORDANCE WITH THE COMPREHENSIVE PLAN GOAL.

IN FURTHERANCE OF THE APPLICANT'S COMMENTS HEREIN AND WHILE IT INTENDS TO MEET THE 1-INCH USING THE TECHNIQUES SHOWN, IT RESERVES THE RIGHT TO UTILIZE ANY COMBINATION OF LID (EXISTING AND FUTURE) MEASURES TO MEET THIS GOAL SUBJECT TO THE REVIEW AND APPROVAL OF DPWES AT TIME OF SITE PLAN.

RECOGNIZING THAT RUNOFF REDUCTION TECHNOLOGIES ARE RELATIVELY NEW AND STILL EVOLVING, SHOULD THE APPLICANT'S FINAL DESIGN DEVELOPMENT AND/OR DPWES COMMENTS ON THE SITE PLAN RESULT IN CHANGES TO THE LID MEASURES SHOWN ON THE COP AND/OR FDP, INCLUDING, BUT NOT LIMITED TO, ELIMINATION OR ADDITION OF MEASURES SO LONG AS THESE CHANGES DO NOT AFFECT THE GRID OF STREETS, THE GENERAL LOCATION OF THE POINTS OF ACCESS TO EACH BLOCK, THE GENERAL LOCATION OF THE BUILDINGS, THE BUILD-TO LINES, THE MINIMUM AMOUNT AND GENERAL LOCATION OF PUBLIC-ACCESSIBLE URBAN PARK LAND AS MAY BE APPLICABLE FOR EACH BLOCK AND THE GENERAL QUALITY AND CHARACTER OF THE STREETSCAPE ALONG THE PUBLIC AND PRIVATE STREETS WITHIN AND ADJUTING THE SUBJECT PROPERTY AND AS OTHERWISE SPECIFIED IN THE PROFFERS.

RUNOFF FLOWRATE COMPUTATIONS:

Amount of Site Area (Ac) Per Hydrologic Soil Group? *Per Soils Map Approximately 100% Type B

Type A	Type B	Type C	Type D
0	4.90	0	0

Baseline Flow Rates
 Land Use = Ex Conditions (0% Imp)

Curve Number (CN) For Soil Type Per Land Use	Type A	Type B	Type C	Type D
	57	79	82	86

Design Storm 24-hr Rainfall Depth (in)

1-yr	2-yr	10-yr
2.7	3.2	5.5

Equivalent C

1-yr	2-yr	10-yr
0.25	0.81	0.49

Per County Adequate Outfall Presentation formula for the conversion from CN to rational method C-factor (C):
 $C = 1 - [(5 \times 11.2) / (S/P + 0.85)] / P$
 where:
 P = 24-hr rainfall depth for design storm
 $S = (1000 / CN) - 10$

5 Minute TC
 Design Storm Rainfall Intensity (i)

1-yr	2-yr	10-yr
3.27	5.45	7.27

Existing Conditions Peak Flow Rates

1-yr	2-yr	10-yr
4.09	0.28	17.46

Per County Adequate Outfall Presentation formula for the conversion from CN to rational method C-factor (C):
 $C = 1 - [(5 \times 11.2) / (S/P + 0.85)] / P$
 where:
 P = 24-hr rainfall depth for design storm
 $S = (1000 / CN) - 10$

5 Minute TC
 Design Storm Rainfall Intensity (i)

1-yr	2-yr	10-yr
3.27	5.45	7.27

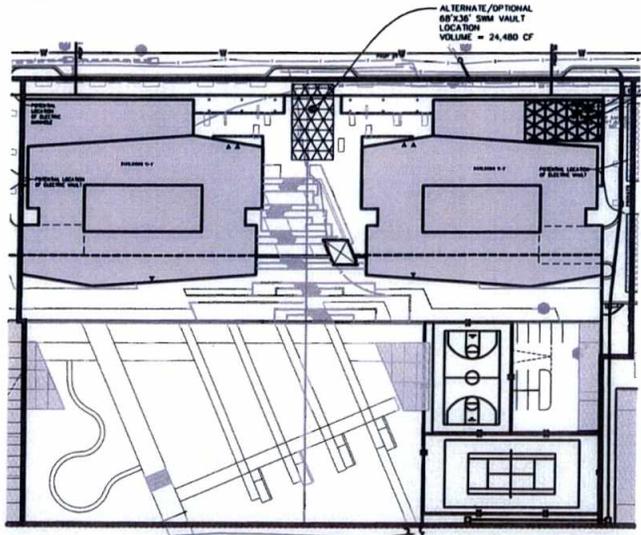
Proposed Conditions Peak Flow Rates

1-yr	2-yr	10-yr
11.21	10.40	29.57

ALLOWABLE RELEASE RATE

PER LEED POST-DEVELOPED RELEASE RATE FOR THE 1 YEAR AND 2 YEAR STORM MUST NOT EXCEED THE EXISTING CONDITIONS RELEASE RATE. IN ADDITION, THE POST DEVELOPED TO YEAR PEAK RATE MUST NOT EXCEED THE EXISTING CONDITIONS PEAK RATE.

** NOTE: PROPOSED CONDITIONS, COMPUTATIONS, AND STORAGE VOLUMES FOR RE-USE ARE BASED ON A PROPOSED IMPERVIOUS PERCENTAGE OF 85%. FINAL SWM DESIGN, VAULT SIZE, STORAGE CAPACITY, RE-USE QUANTITY, ETC. SHALL BE BASED ON THE ACTUAL PROPOSED IMPERVIOUS PERCENTAGE AT THE TIME OF FINAL SITE PLAN.



BLOCK C SWM VAULT LOCATION

SCALE: 1"=60'

BLOCK C SWM NARRATIVE:

COMPREHENSIVE PLAN (1" RUNOFF RETENTION REQUIREMENT):

THE PROPOSED BLOCK C HAS A PROPERTY AREA OF 4.90 ACRES, OF WHICH 1" OF RUNOFF IS REQUIRED TO BE RETAINED, TO THE MAXIMUM EXTENT PRACTICABLE, BY MEANS OF INFILTRATION, EVAPORATION/TRANSPIRATION, AND/OR REUSE TO MEET THE CURRENT GOALS AND STANDARDS OF THE "TYSONS CORNER COMPREHENSIVE PLAN AMENDMENT". THE GOAL IS TO CAPTURE THE FIRST 1" OF RAINWATER RUNOFF. DUE TO THE LIMITED LEVEL OF PROJECT DESIGN DETAIL, SUCH AS BUILDING SYSTEMS, COOLING TOWER AND WATER RE-USE DEMANDS, AND BUILDING TENANT REQUIREMENTS, THAT IS AVAILABLE TO BORMAN AT THE TIME OF COP SUBMISSION, THE 1" RETENTION REQUIREMENT MAY NOT BE A FULLY ACHIEVABLE GOAL. AT THIS TIME, HOWEVER, MORE DETAILED COMPUTATIONS WILL BE PROVIDED WITH THE FDP SUBMISSION OF THE MEASURES LISTED IN THE "TYSONS CORNER COMPREHENSIVE PLAN STORMWATER COMPLIANCE SPREADSHEET" AND THE "TYSONS CORNER COMPREHENSIVE PLAN STORMWATER COMPLIANCE FLOWCHART". THE MOST VIABLE OPTIONS INCLUDE: RAINWATER HARVESTING CISTERN, STORMWATER PLANTERS, TREETIPS, CURB EXTENSIONS, AND VEGETATED DRAINAGE.

INFILTRATION IS NOT A FEASIBLE OPTION ON THIS SITE DUE TO THE URBAN NATURE OF THIS PROJECT AND THE MAJORITY OF PROPOSED GREEN SPACE IS ABOVE THE GARAGE IN THE FORM OF GREEN ROOF WHERE INFILTRATION DOES NOT FUNCTION.

ROOF RAINWATER HARVESTING WILL BE UTILIZED TO CAPTURE ANYWHERE FROM 1" TO 1.4" OF RAINWATER THAT FALLS ONTO THE BUILDING AND GARAGE FOOTPRINT. THIS AREA IS MADE UP OF A COMBINATION OF VEGETATED ROOF AND IMPERVIOUS AREA. WATER THAT FALLS ONTO THE VEGETATED ROOFS WILL BE LINKED IN SERIES TO THE CISTERN VIA UNDERDRAINS WITHIN THE BUILDING.

DISCONNECTED STORMWATER PLANTERS, TREETIPS, AND CURB EXTENSIONS ARE PROPOSED IN THE SIDEWALKS ALONG WESTPARK DRIVE (RT. 508). THE PLAZA AREA BETWEEN THE TWO (2) BUILDINGS PROPOSED ON BLOCK C AND THE PRIVATE STREET BETWEEN BLOCKS C AND D. THESE MEASURES ARE EXPECTED TO COLLECT IMPERVIOUS AREAS AND MANAGED TURF COVER OUTSIDE OF THE BUILDING FOOTPRINT.

PERMEABLE PAVEMENT IS A POTENTIAL PRACTICE THAT COULD BE USED IN THE DRIVE AISLE BETWEEN BLOCKS C AND D; HOWEVER, THE WEIGHT OF SERVICE VEHICLES THAT WILL BE TRAVELING ON THE DRIVE AISLE AND THE RISK OF POLLUTANTS/CONTAMINANTS DRAINING THROUGH THE PAVEMENT NEAR THE SERVICE ENTRANCES LEAD TO THE CONCLUSION THAT PERMEABLE PAVEMENT IS NOT A PRACTICABLE OPTION.

LOW IMPACT DEVELOPMENT (LID) TECHNIQUES TO BE UTILIZED INCLUDE BIORETENTION TREE PITS, GREEN ROOFS, AND LID BASIN TYPES 'B', AND 'C'. BIORETENTION TREE PITS ARE INCORPORATED INTO THE PROPOSED STREET AND SIDEWALK DESIGN TO TREAT WATER THAT WOULD NORMALLY FLOW INTO INLETS AND GO UNREATED. WATER WILL ENTER THESE TREE PITS AND BE TREATED BEFORE FLOWING DOWNSTREAM IN THE UNDERGROUND STORM SEWER SYSTEM. SEE "LOW IMPACT DEVELOPMENT CONCEPT PLAN," SHEET C10.B, FOR FURTHER DETAIL.

DUE TO THE URBAN NATURE OF THIS SITE, THE BUILDING LAYOUT, AMOUNT OF SOIL TO BE DISTURBED, AND AVAILABLE GREEN SPACE, THE FOLLOWING RUNOFF REDUCTION PRACTICES ARE NOT FEASIBLE OPTIONS: VEGETATED FILTER STRIPS, EXTENDED DETENTION POND, CONSERVATION AREA, GRASS CHANNEL, DRY SWALE, AND BIORETENTION.

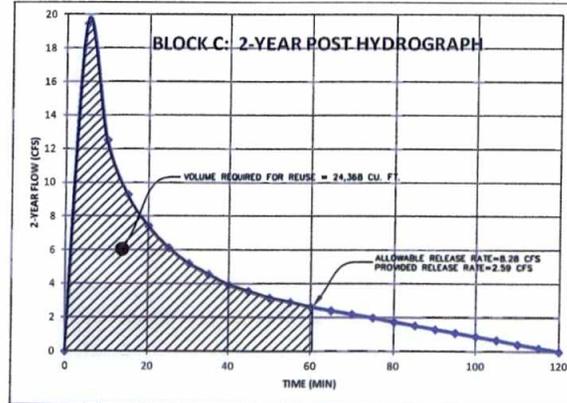
ACCORDING TO THE "TYSONS CORNER COMPREHENSIVE PLAN AMENDMENT", RESTORATION AND/OR STABILIZATION OF DEGRADED STREAMS ON DEVELOPMENT SITES SHALL BE PURSUED WHERE FEASIBLE. NO STREAMS OR CHANNELS ARE PRESENT ON BLOCK C. THE PROPOSED STORMWATER RUNOFF REDUCTION MEASURES ARE INTENDED TO IMPROVE STORMWATER MANAGEMENT CONTROLS SUFFICIENTLY WHICH WILL IMPROVE THE HABITAT AND RECREATIONAL VALUES OF STREAMS IN TYSONS CORNER.

SUMMARY:

TO THE MAXIMUM EXTENT POSSIBLE, THE FIRST INCH OF RAINFALL WILL BE RETAINED ON-SITE THROUGH INFILTRATION, EVAPORATION AND/OR REUSE. WHERE IT HAS BEEN DEMONSTRATED TO NOT BE FULLY ACHIEVABLE, ALL AVAILABLE MEASURES WILL BE IMPLEMENTED TO THE EXTENT POSSIBLE IN ORDER TO SUPPORT THIS GOAL AND ACHIEVE PARTIAL RETENTION OF THE FIRST INCH OF RAINFALL. AT THE TIME OF FDP, WHEN THE PREVIOUSLY MENTIONED PROJECT DESIGN DETAILS ARE KNOWN, THIS NARRATIVE AND ASSOCIATED COMPUTATIONS WILL BE AMENDED ACCORDINGLY.

NOTE:

1. STORMWATER MANAGEMENT (SWM) AND BEST MANAGEMENT PRACTICES (BMP) ANALYSIS, NARRATIVES, AND PROPOSED DESIGN AND/OR FACILITIES PRESENTED HEREIN ARE PRELIMINARY BASED ON PROPOSED COP APPLICATION AND ARE SUBJECT TO REVISION WITH FINAL SITE PLAN APPLICATIONS.
2. THE APPLICANT RESERVES THE RIGHT TO VARY THE NUMBER, SIZE, SHAPE, AND LOCATION OF THE LID PRACTICES WITH FINAL ENGINEERING.



SWM NOTE:

BY MEETING THE REQUIRED VOLUME REUSE FOR THE 1 YEAR AND 2 YEAR STORMS THE PEAK ATTENUATION HAS AUTOMATICALLY BEEN MET FOR THE 1 YEAR, 2 YEAR, AND 10 YEAR STORMS.

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BLOCK C SWM COMPUTATIONS
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
01/27/11	PER COUNTY COMMENT
01/27/11	PER COUNTY COMMENT
02/14/11	PER COUNTY COMMENT
03/21/11	PER COUNTY COMMENT

SCALE: 1"=50'-0"
 JOB No.
 DATE: APRIL 28, 2011
 FILE No. 7403-07-001

SHEET C10.4

RUNOFF FLOWRATE COMPUTATIONS:

Amount of Site Area (Ac) Per Hydrologic Soil Group *Per SMI Map approximately 1:2000 Type B

Project: WESTPARK REDEVELOPMENT
County: FAIRFAX State: VA
SubTitle: EXISTING CONDITIONS BLOCK D
Date: 01-31-2011
User: RSD
Checked: Date:

Total Site Area (ac)	Type A	Type B	Type C	Type D
1.98	0	1.98	0	0

Store Number	1	2	3
Frequency (yrs)	1	2	10
24-hr rainfall (in)	2.7	3.2	5.5
Ia/p ratio	0.27	0.23	0.13
Runoff (in)	0.68	0.98	2.68
Unit Peak Discharge (cfs/acre/in)	1.478	1.502	1.558
Pond and Swamp Factor (0. in Ponds used)	1.00	1.00	1.00
Peak discharge (cfs)	2	3	8

Baseline Flow Rates
Land Use = Ex Conditions (0 in Imp)

Weighted OI for site	73
S for OI to C Calc.	3.70

Curve Number (CN) For Soil Type Per Land Use	Type A	Type B	Type C	Type D
57	73	83	86	

Per County Adequate Outfall Presentation formula for the conversion from CN to rational method C-Factor (C):
 $C = 1 - [(S+1.2) - (S/P + 0.8)] / P$
where:
P = 24-hr rainfall depth for design storm
S = (1000 / CN) - 10

SM Note TC	Design Storm Rainfall Intensity (I)	in/hr
1-yr	2-yr	10-yr
3.27	5 (1)	7.27

Existing Conditions Peak Flow Rates	1-yr	2-yr	10-yr
	1.83	3.18	7.08

Proposed Flow Rates
** Land Use = Proposed Conditions (0 in Imp)

Weighted OI for site	92
S for OI to C Calc.	0.87

Curve Number (CN) For Soil Type Per Land Use	Type A	Type B	Type C	Type D
89	92	94	95	

Per County Adequate Outfall Presentation formula for the conversion from CN to rational method C-Factor (C):
 $C = 1 - [(S+1.2) - (S/P + 0.8)] / P$
where:
P = 24-hr rainfall depth for design storm
S = (1000 / CN) - 10

SM Note TC	Design Storm Rainfall Intensity (I)	in/hr
1-yr	2-yr	10-yr
3.27	5 (1)	7.27

Proposed Conditions Peak Flow Rates	1-yr	2-yr	10-yr
	4.93	7.88	11.95

BLOCK D SWM NARRATIVE:

COMPREHENSIVE PLAN (1" RUNOFF RETENTION REQUIREMENT):

THE PROPOSED BLOCK D HAS A PROPERTY AREA OF 1.98 ACRES, OF WHICH 1" OF RAINFALL IS REQUIRED TO BE RETAINED, TO THE MAXIMUM EXTENT PRACTICABLE, BY MEANS OF INFILTRATION, EVAPOTRANSPIRATION, AND/OR REUSE TO MEET THE CURRENT GOALS AND STANDARDS OF THE "TYSONS CORNER COMPREHENSIVE PLAN AMENDMENT." THE GOAL IS TO CAPTURE THE FIRST 1" OF RAINWATER RUNOFF, DUE TO THE LIMITED LEVEL OF PROJECT DESIGN DETAIL, SUCH AS BUILDING SYSTEMS, COOLING TOWER AND WATER RE-USE DEMANDS, AND BUILDING TENANT REQUIREMENTS, THAT IS AVAILABLE TO BOWMAN AT THE TIME OF CDP SUBMISSION, THE 1" RETENTION REQUIREMENT MAY NOT BE A FULLY ACHIEVABLE GOAL AT THIS TIME. HOWEVER, MORE DETAILED COMPUTATIONS WILL BE PROVIDED WITH THE FDP SUBMISSION OF THE MEASURES LISTED IN THE "TYSONS CORNER COMPREHENSIVE PLAN STORMWATER COMPLIANCE SPREADSHEET" AND THE "TYSONS CORNER COMPREHENSIVE PLAN STORMWATER COMPLIANCE FLOWCHART." THE MOST FEASIBLE OPTIONS INCLUDE: RAINTER HARVESTING SYSTEMS, STORMWATER PLANTERS, TREETIPS, CURB EXTENSIONS, VEGETATED GREEN ROOF, AND PERMEABLE PAVEMENT.

INFILTRATION IS NOT A FEASIBLE OPTION ON THIS SITE DUE TO THE URBAN NATURE OF THIS PROJECT. DUE TO THE SIZE OF THE BUILDING AND GARAGE THERE IS NOT ENOUGH GREEN/PERVIOUS SPACE AVAILABLE FOR THE INFILTRATION PRACTICE.

ROOF RAINWATER HARVESTING WILL BE UTILIZED TO CAPTURE ANYWHERE FROM 1" TO 1.4" OF RAINWATER THAT FALLS ONTO THE BUILDING AND GARAGE FOOTPRINT. THIS AREA IS MADE UP OF A COMBINATION OF VEGETATED ROOF AND IMPERVIOUS AREA. WATER THAT FALLS ONTO THE VEGETATED ROOFS WILL BE LINKED IN SERIES TO THE CISTERN VIA UNDERDRAINS WITHIN THE BUILDING.

DISCONNECTED STORMWATER PLANTERS, TREETIPS, AND CURB EXTENSIONS ARE PROPOSED IN THE SIDEWALKS ALONG WESTPARK DRIVE (RT. 5061), THE PROPOSED JONES BRANCH DRIVE (RT. 5062) EXTENSION, AND THE PRIVATE STREET BETWEEN BLOCKS C AND D. THESE MEASURES ARE EXPECTED TO COLLECT IMPERVIOUS AREAS AND MANAGED TURF COVER OUTSIDE OF THE BUILDING FOOTPRINT.

PERMEABLE PAVEMENT IS A POTENTIAL PRACTICE THAT IS PROPOSED IN THE SIDEWALK ALONG BLOCK D'S FRONTAGE WITH WESTPARK DRIVE (RT. 5061) AND COULD BE USED IN THE DRIVE ASLE BETWEEN BLOCKS C AND D; HOWEVER, THE WEIGHT OF SERVICE VEHICLES THAT WILL BE TRAVELING ON THE DRIVE ASLE AND THE RISK OF POLLUTANTS/CONTAMINANTS DRIPPING THROUGH THE PAVEMENT NEAR THE SERVICE ENTRANCES LEAD TO THE CONCLUSION THAT PERMEABLE PAVEMENT IS NOT A PRACTICABLE OPTION IN THE DRIVE ASLES BUT IS PRACTICAL IN THE PROPOSED SIDEWALK LOCATION.

LOW IMPACT DEVELOPMENT (LID) TECHNIQUES TO BE UTILIZED INCLUDE BIORETENTION TREE PITS, GREEN ROOFS, AND LID BASIN TYPES 'A', 'B', AND 'C'. BIORETENTION TREE PITS ARE INCORPORATED INTO THE PROPOSED STREET AND SIDEWALK DESIGN TO TREAT WATER THAT WOULD NORMALLY FLOW INTO ALETS AND GO UNTREATED. WATER WILL ENTER THESE TREE PITS AND BE TREATED BEFORE GOING DOWNSTREAM IN THE UNDERGROUND STORM SEWER SYSTEM. SEE LOW IMPACT DEVELOPMENT CONCEPT PLAN - SHEET C10.8, FOR FURTHER DETAIL.

ACCORDING TO THE "TYSONS CORNER COMPREHENSIVE PLAN AMENDMENT," RESTORATION AND/OR STABILIZATION OF DEGRADED STREAMS ON DEVELOPMENT SITES SHALL BE PURSUED WHERE FEASIBLE. NO STREAMS OR CHANNELS ARE PRESENT ON BLOCK D. THE PROPOSED STORMWATER RUNOFF REDUCTION MEASURES ARE NEEDED TO IMPROVE STORMWATER MANAGEMENT CONTROLS SUFFICIENTLY WHICH WILL IMPROVE THE HABITAT AND RECREATIONAL VALUES OF STREAMS IN TYSONS CORNER.

SUMMARY:

TO THE MAXIMUM EXTENT POSSIBLE, THE FIRST INCH OF RAINFALL WILL BE RETAINED ON-SITE THROUGH INFILTRATION, EVAPOTRANSPIRATION AND/OR REUSE. WHERE IT HAS BEEN DEMONSTRATED TO NOT BE FULLY ACHIEVABLE, ALL AVAILABLE MEASURES WILL BE IMPLEMENTED TO THE EXTENT POSSIBLE IN ORDER TO SUPPORT THIS GOAL AND ACHIEVE PARTIAL RETENTION OF THE FIRST INCH OF RAINFALL. AT THE TIME OF FDP, WHEN THE PREVIOUSLY MENTIONED PROJECT DESIGN DETAILS ARE KNOWN, THIS NARRATIVE AND ASSOCIATED COMPUTATIONS WILL BE AMENDED ACCORDINGLY.

NOTE:

1. STORMWATER MANAGEMENT (SWM) AND BEST MANAGEMENT PRACTICES (BMP) ANALYSIS, NARRATIVES, AND PROPOSED DESIGN AND/OR FACILITIES PRESENTED HEREIN ARE PRELIMINARY BASED ON PROPOSED CDP APPLICATION AND ARE SUBJECT TO REVIEW WITH FINAL SITE PLAN APPLICATION.
2. THE APPLICANT RESERVES THE RIGHT TO VARY THE NUMBER, SIZE, SHAPE, AND LOCATION OF THE LID PRACTICES WITH FINAL ENGINEERING.

TOTAL RUNOFF VOLUME (EXISTING CONDITIONS)
1 YR STORM: 1.98 AC X 0.68 (IN) X 1.478 (CFS/AC/IN) X 43560 (SF/AC) = 4,888 CU. FT.
2 YR STORM: 1.98 AC X 0.98 (IN) X 1.478 (CFS/AC/IN) X 43560 (SF/AC) = 7,044 CU. FT.
10 YR STORM: 1.98 AC X 2.68 (IN) X 1.478 (CFS/AC/IN) X 43560 (SF/AC) = 19,263 CU. FT.

Project: WESTPARK REDEVELOPMENT
County: FAIRFAX State: VA
SubTitle: PROPOSED CONDITIONS BLOCK D
Date: 01-31-2011
User: RSD
Checked: Date:

Store Number	1	2	3
Frequency (yrs)	1	2	10
24-hr rainfall (in)	2.7	3.2	5.5
Ia/p ratio	0.06	0.05	0.03
Runoff (in)	0.10	0.10	0.10
Unit Peak Discharge (cfs/acre/in)	1.578	1.578	1.578
Pond and Swamp Factor (0. in Ponds used)	1.00	1.00	1.00
Peak discharge (cfs)	6	14	

Weighted OI for site
S for OI to C Calc.

92	0.87
----	------

Curve Number (CN) For Soil Type Per Land Use	Type A	Type B	Type C	Type D
89	92	94	95	

SM Note TC	Design Storm Rainfall Intensity (I)	in/hr
1-yr	2-yr	10-yr
3.27	5 (1)	7.27

Proposed Conditions Peak Flow Rates	1-yr	2-yr	10-yr
	4.93	7.88	11.95

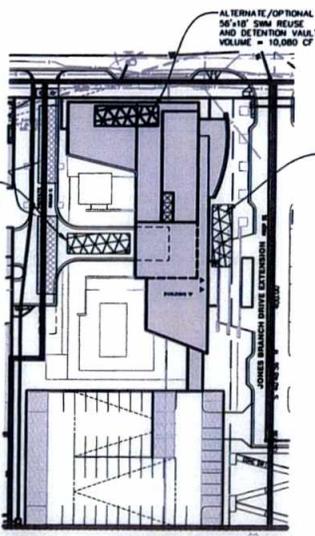
ALLOWABLE RELEASE RATE
PER LEED POST-DEVELOPED VOLUME FOR THE 1 YEAR AND 2 YEAR STORMS MUST NOT EXCEED THE EXISTING CONDITIONS PEAK RATE. IN ADDITION, THE POST DEVELOPED 10 YEAR PEAK RATE MUST NOT EXCEED THE EXISTING CONDITIONS PEAK RATE.

** NOTE: PROPOSED CONDITIONS, COMPUTATIONS, AND STORAGE VOLUMES FOR RE-USE ARE BASED ON A PROPOSED IMPERVIOUS PERCENTAGE OF 85%. FINAL SWM DESIGN, VAULT SIZE, STORAGE CAPACITY, RE-USE QUANTITY, ETC. SHALL BE BASED ON THE ACTUAL PROPOSED IMPERVIOUS PERCENTAGE AT THE TIME OF FINAL SITE PLAN.

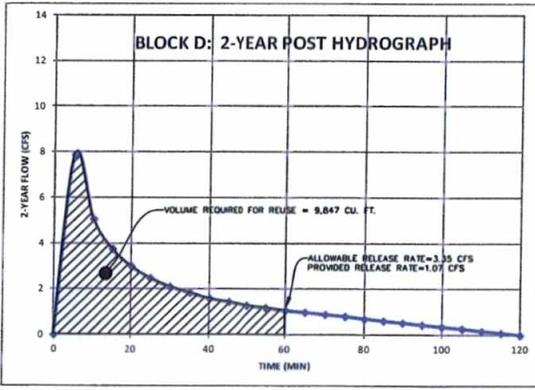
TOTAL RUNOFF VOLUME (PROPOSED CONDITIONS)
1 YR STORM: 1.98 AC X 0.68 (IN) X 1.578 (CFS/AC/IN) X 43560 (SF/AC) = 13,513 CU. FT.
2 YR STORM: 1.98 AC X 2.25 (IN) X 1.578 (CFS/AC/IN) X 43560 (SF/AC) = 16,891 CU. FT.
10 YR STORM: 1.98 AC X 4.58 (IN) X 1.578 (CFS/AC/IN) X 43560 (SF/AC) = 32,919 CU. FT.

TOTAL RUNOFF VOLUME (ALLOWABLE RELEASE)
PER LEED POST-DEVELOPED VOLUME FOR THE 1 YEAR AND 2 YEAR STORMS MUST NOT EXCEED THE EXISTING CONDITIONS VOLUME. THEREFORE ANY ADDITIONAL STORAGE REQUIRED SHALL BE MET WITH A REUSE VAULT.

1-YEAR STORM	13,513 CU. FT. - 4,888 CU. FT. = 8,625 CU. FT.
2-YEAR STORM	16,891 CU. FT. - 7,044 CU. FT. = 9,847 CU. FT.



BLOCK D SWM VAULT LOCATION
SCALE 1"=40'



SWM NOTE:
BY MEETING THE REQUIRED VOLUME REUSE FOR THE 1 YEAR AND 2 YEAR STORMS THE PEAK ATTENUATION HAS AUTOMATICALLY BEEN MET FOR THE 1 YEAR, 2 YEAR, AND 10 YEAR STORMS.

1" COMPREHENSIVE PLAN NOTE:
THE INFILTRATION VOLUME IS TO BE DETERMINED AT FDP. IT IS NOT PRACTICABLE TO RETAIN SMALL AREAS OF THE SITE PERIPHERY DUE TO REQUIRED SITE GRADING. HOWEVER, THE FULL 1-INCH RAIN EVENT CAN BE RETAINED ON SITE BY OVER RETAINING UP TO 1.4-INCHES OF RAIN THAT FALLS ON THE BUILDING ROOF IF THE RUNOFF REDUCTION MEASURES AND COMPUTATIONS SHOWN HEREIN ARE APPROVED BY THE COUNTY. IF THE RUNOFF REDUCTION MEASURES AND/OR COMPUTATIONS SHOWN HEREIN ARE NOT APPROVED BY DPWS, THE APPLICANT WILL WORK WITH THE COUNTY TO RETAIN THE FIRST 1-INCH OF RAINFALL TO THE EXTENT PRACTICABLE IN ACCORDANCE WITH THE COMPREHENSIVE PLAN GOAL.

IN FURTHERANCE OF THE APPLICANT'S COMMENTS HEREIN AND WHILE IT INTENDS TO MEET THE 1-INCH USING THE TECHNIQUES SHOWN, IT RESERVES THE RIGHT TO UTILIZE ANY COMBINATION OF LID (EXISTING AND FUTURE) MEASURES TO MEET THIS GOAL SUBJECT TO THE REVIEW AND APPROVAL OF DPWS AT TIME OF SITE PLAN.

RECOGNIZING THAT RUNOFF REDUCTION TECHNOLOGIES ARE RELATIVELY NEW AND STILL EVOLVING, SHOULD THE APPLICANT'S FINAL DESIGN DEVELOPMENT AND/OR DPWS COMMENTS ON THE SITE PLAN RESULT IN CHANGES TO THE LID MEASURES SHOWN ON THE CDP AND/OR FDP, INCLUDING, BUT NOT LIMITED TO, ELIMINATION OR ADDITION OF MEASURES SO LONG AS THESE CHANGES DO NOT AFFECT THE GRID OF STREETS, THE GENERAL LOCATION OF THE POINTS OF ACCESS TO EACH BLOCK, THE GENERAL LOCATION OF THE BUILDINGS, THE BUILD-TO LINES, THE MINIMUM AMOUNT AND GENERAL LOCATION OF PUBLICLY-ACCESS URBAN PARK LAND AS MAY BE APPLICABLE FOR EACH BLOCK AND THE GENERAL QUALITY AND CHARACTER OF THE STREETSCAPE ALONG THE PUBLIC AND PRIVATE STREETS WITHIN AND ADJUTING THE SUBJECT PROPERTY AND AS OTHERWISE SPECIFIED IN THE PROFFERS.

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PLAN STATUS

02/27/11	PER COUNTY COMMENT
03/02/11	PER COUNTY COMMENT
03/24/11	PER COUNTY COMMENT
03/29/11	PER COUNTY COMMENT

DATE DESCRIPTION
SCALE: HAS 1/4"=1'-0"
JOB No.
DATE: APRIL 25, 2011
FILE No: 7403-01-001

SHEET C10.5

RUNOFF FLOWRATE COMPUTATIONS:

Project : WESTPARK REDEVELOPMENT
County : FAIRFAX State : VA
SubTitle : EXISTING CONDITIONS BLOCK E User: RSD
Checked: Date: 01-31-2011

Data: Drainage Area : 3.14 Acres
Runoff Curve Number : 7.10
Time of Concentration : 0.10 Hours
Rainfall Type : II
Pond and Swamp Area : NONE

Storm number	1	2	3
Frequency (Yrs)	1	2	10
24-Hr Rainfall (in)	2.7	3.2	5.5
Ia/P Ratio	0.27	0.23	0.13
Runoff (in)	0.68	0.98	2.68
Unit Peak Discharge (cfs/acre/in)	1.478	1.502	1.578
Pond and Swamp Factor	1.00	1.00	1.00
Peak Discharge (cfs)	3	5	13

Amount of Site Area (A) Per Hydrologic Soil Group*	Type A	Type B	Type C	Type D
Total Site Area (ac)	0	3.14	0	0

Basin Flow Rates
Land Use = G Conditions (26 Imp)

Curve Number (CN) For Soil Type Per Land Use	Type A	Type B	Type C	Type D
57	75	82	88	

Design Storm 24-hr Rainfall Depth (in)

1-yr	2-yr	10-yr
2.7	3.2	5.5

Equivalent C

1-yr	2-yr	10-yr
0.25	0.31	0.49

*Per Soils Map approximately 100% type B

Per County Adequate Outfall Presentation formula for the conversion from CN to rational method C-factor (C):
 $C = 1 - \frac{[0.5(1.2 - 0.5/P + 0.85)]}{P}$
where:
P = 24-hr rainfall depth for design storm
 $S = (1000 / CN) - 10$

5 Minute TC
Design Storm Rainfall Intensity (i)

1-yr	2-yr	10-yr
3.27	5.65	7.27

Existing Conditions Peak Flow Rates

1-yr	2-yr	10-yr
1.97	3.11	11.19

BLOCK E SWM NARRATIVE:

COMPREHENSIVE PLAN (1" RUNOFF RETENTION REQUIREMENT):

THE PROPOSED BLOCK E HAS A PROPERTY AREA OF 3.14 ACRES, OF WHICH 1" OF RUNOFF IS REQUIRED TO BE RETAINED TO THE MAXIMUM EXTENT PRACTICABLE BY MEANS OF INFILTRATION, EVAPOTRANSPIRATION, AND/OR REUSE TO MEET THE CURRENT GOALS AND STANDARDS OF THE "TYSONS CORNER COMPREHENSIVE PLAN AMENDMENT." THE GOAL IS TO CAPTURE THE FIRST 1" OF RAINFALL RUNOFF. DUE TO THE LIMITED LEVEL OF PROJECT DESIGN DETAIL, SUCH AS BUILDING SYSTEMS, COOLING TOWER AND WATER RE-USE DEMANDS, AND BUILDING TENANT REQUIREMENTS, THAT IS AVAILABLE TO BOWMAN AT THE TIME OF COP SUBMISSION, THE 1" RETENTION REQUIREMENT MAY NOT BE A FULLY ACHIEVABLE GOAL AT THIS TIME. HOWEVER, MORE DETAILED COMPUTATIONS WILL BE PROVIDED WITH THE FDP SUBMISSION. OF THE MEASURES LISTED IN THE TYSONS CORNER COMPREHENSIVE PLAN STORMWATER COMPLIANCE SPREADSHEET AND THE TYSONS CORNER COMPREHENSIVE PLAN STORMWATER COMPLIANCE FLOWCHART, THE MOST Viable OPTIONS INCLUDE: INFILTRATION (PENDING SOIL ANALYSIS RESULTS), RAINWATER HARVESTING SYSTEMS, STORMWATER PLANTERS, TREES, CURB EXTENSIONS, VEGETATED GREEN ROOF, AND BIORETENTION.

INFILTRATION FACILITIES WOULD BE THE IDEAL PRACTICE. THE PREFERRED LOCATION FOR THE INFILTRATION FACILITIES WOULD BE IN THE REAR OF THE PROPERTY IN THE GREEN SPACE BETWEEN THE BUILDING AND THE PRIVATE STREET CONNECTOR STREET AND THE GREEN SPACE BETWEEN THE CONNECTOR STREET AND THE PROPOSED WALKWAY TRAIL. HOWEVER, THE SUITABILITY OF THE SITE SOILS TO PROVIDE INFILTRATION IS STILL UNDER INVESTIGATION AT THIS TIME.

ROOF RAINWATER HARVESTING WILL BE UTILIZED TO CAPTURE ANYWHERE FROM 1" TO 1.4" OF RAINFALL THAT FALLS ONTO THE BUILDING AND GARAGE FOOTPRINT. THIS AREA IS MADE UP OF A COMBINATION OF VEGETATED ROOF AND IMPERVIOUS AREA. WATER THAT FALLS ONTO THE VEGETATED ROOFS WILL BE LINKED IN SERIES TO THE CISTERN VIA UNDERDRAINS WITHIN THE BUILDING.

DISCONNECTED STORMWATER PLANTERS, TREES, AND CURB EXTENSIONS ARE PROPOSED IN THE SIDEWALKS ALONG WESTPARK DRIVE (RT. 506). THE PROPOSED JONES BRANCH DRIVE (RT. 506Z) EXTENSION, AND THE PRIVATE STREET SURROUNDING THE BUILDING. THESE MEASURES ARE EXPECTED TO COLLECT IMPERVIOUS AREAS AND MANAGED TURF COVER OUTSIDE OF THE BUILDING FOOTPRINT.

BIORETENTION COULD BE USED AS A Viable OPTION AT THE REAR OF THE SITE IN THE MANAGED TURF AREA. THIS APPEARS TO BE THE IDEAL LOCATION IF INFILTRATION RESULTS DO NOT MEET THE MINIMUM INFILTRATION RATE OF 0.52 INCHES PER HOUR.

PERMEABLE PAVEMENT IS A POTENTIAL PRACTICE THAT COULD BE USED IN THE DRIVE AISLE SURROUNDING THE BUILDING. HOWEVER, THE HEIGHT OF SERVICE VEHICLES THAT WILL BE TRAVELING ON THE DRIVE AISLE AND THE RISK OF POLLUTANTS/CONTAMINANTS DRAINING THROUGH THE PAVEMENT NEAR THE SERVICE ENTRANCES LEAD TO THE CONCLUSION THAT PERMEABLE PAVEMENT IS NOT A PRACTICABLE OPTION.

LOW IMPACT DEVELOPMENT (LID) TECHNIQUES TO BE UTILIZED INCLUDE BIORETENTION TREE PITS, GREEN ROOFS, AND LID BASIN TYPES "A" AND "B". BIORETENTION TREE PITS ARE INCORPORATED INTO THE PROPOSED STREET AND SIDEWALK DESIGN TO TREAT WATER THAT WOULD NORMALLY FLOW INTO INLETS AND GO UNTREATED. WATER WILL ENTER THESE TREE PITS AND BE TREATED BEFORE GOING DOWNSTREAM IN THE UNDERGROUND STORM SEWER SYSTEM. SEE "LOW IMPACT DEVELOPMENT CONCEPT PLAN," SHEET C10.8, FOR FURTHER DETAIL.

DUE TO THE URBAN NATURE OF THIS SITE, THE BUILDING LAYOUT, AMOUNT OF SOIL TO BE DISTURBED, AND AVAILABLE GREEN SPACE, THE FOLLOWING RUNOFF REDUCTION PRACTICES ARE NOT FEASIBLE OPTIONS: VEGETATED FILTER STRIPS, EXTENDED DETENTION POND, CONSERVATION AREA, GRASS CHANNEL, AND DRY SWALE.

ACCORDING TO THE "TYSONS CORNER COMPREHENSIVE PLAN AMENDMENT," RESTORATION AND/OR STABILIZATION OF DEGRADED STREAMS ON DEVELOPMENT SITES SHALL BE PURSUED WHERE FEASIBLE. NO STREAMS OR CHANNELS ARE PRESENT ON BLOCK E. THE PROPOSED STORMWATER RUNOFF REDUCTION MEASURES ARE INTENDED TO IMPROVE STORMWATER MANAGEMENT CONTROLS SUFFICIENTLY WHICH WILL IMPROVE THE HABITAT AND RECREATIONAL VALUES OF STREAMS IN TYSONS CORNER.

SUMMARY:

TO THE MAXIMUM EXTENT POSSIBLE, THE FIRST INCH OF RAINFALL WILL BE RETAINED ON-SITE THROUGH INFILTRATION, EVAPOTRANSPIRATION AND/OR REUSE. WHERE IT HAS BEEN DEMONSTRATED TO NOT BE FULLY ACHIEVABLE, ALL AVAILABLE MEASURES WILL BE IMPLEMENTED TO THE EXTENT POSSIBLE IN ORDER TO SUPPORT THIS GOAL AND ACHIEVE PARTIAL RETENTION OF THE FIRST INCH OF RAINFALL AT THE TIME OF FDP, WHEN THE PREVIOUSLY MENTIONED PROJECT DESIGN DETAILS ARE KNOWN. THIS NARRATIVE AND ASSOCIATED COMPUTATIONS WILL BE AMENDED ACCORDINGLY.

NOTE:

1. STORMWATER MANAGEMENT (SWM) AND BEST MANAGEMENT PRACTICES (BMP) ANALYSIS, NARRATIVES, AND PROPOSED DESIGN AND/OR FACILITIES PRESENTED HEREIN ARE PRELIMINARY BASED ON PROPOSED COP APPLICATION AND ARE SUBJECT TO REVISION WITH FINAL SITE PLAN APPLICATIONS.
2. THE APPLICANT RESERVES THE RIGHT TO VARY THE NUMBER, SIZE, SHAPE, AND LOCATION OF THE LID PRACTICES WITH FINAL ENGINEERING.

TOTAL RUNOFF VOLUME (EXISTING CONDITIONS)
1 YR STORM: 3.14 AC X 0.68 (IN) X 1.478 (CF/A/IN) X 43560 (SF/AC) = 7,751 CU. FT.
2 YR STORM: 3.14 AC X 0.98 (IN) X 1.502 (CF/A/IN) X 43560 (SF/AC) = 11,171 CU. FT.
10 YR STORM: 3.14 AC X 2.68 (IN) X 1.578 (CF/A/IN) X 43560 (SF/AC) = 30,548 CU. FT.

Project : WESTPARK REDEVELOPMENT
County : FAIRFAX State : VA
SubTitle : PROPOSED CONDITIONS BLOCK E User: RSD
Checked: Date: 01-31-2011

Data: Drainage Area : 3.14 Acres
Runoff Curve Number : 10.10
Time of Concentration : 0.10 Hours
Rainfall Type : II
Pond and Swamp Area : NONE

Storm number	1	2	3
Frequency (Yrs)	1	2	10
24-Hr Rainfall (in)	2.7	3.2	5.5
Ia/P Ratio	0.06	0.05	0.10
Runoff (in)	0.30	0.10	0.03
Unit Peak Discharge (cfs/acre/in)	1.578	1.578	1.578
Pond and Swamp Factor	1.00	1.00	1.00
Peak Discharge (cfs)	5	3	13

Amount of Site Area (A) Per Hydrologic Soil Group*	Type A	Type B	Type C	Type D
Total Site Area (ac)	0	3.14	0	0

Basin Flow Rates
Land Use = G Conditions (26 Imp)

Curve Number (CN) For Soil Type Per Land Use	Type A	Type B	Type C	Type D
69	92	94	95	

Design Storm 24-hr Rainfall Depth (in)

1-yr	2-yr	10-yr
2.7	3.2	5.5

Equivalent C

1-yr	2-yr	10-yr
0.70	0.78	0.83

Per County Adequate Outfall Presentation formula for the conversion from CN to rational method C-factor (C):
 $C = 1 - \frac{[0.5(1.2 - 0.5/P + 0.85)]}{P}$
where:
P = 24-hr rainfall depth for design storm
 $S = (1000 / CN) - 10$

5 Minute TC
Design Storm Rainfall Intensity (i)

1-yr	2-yr	10-yr
3.27	5.61	7.27

Proposed Conditions Peak Flow Rates

1-yr	2-yr	10-yr
1.18	12.09	18.05

ALLOWABLE RELEASE RATE:
PER LEED POST-DEVELOPED RELEASE RATE FOR THE 1 YEAR AND 2 YEAR STORM MUST NOT EXCEED THE EXISTING CONDITIONS RELEASE RATE. IN ADDITION, THE POST DEVELOPED 10 YEAR PEAK RATE MUST NOT EXCEED THE EXISTING CONDITIONS PEAK RATE.

** NOTE: PROPOSED CONDITIONS, COMPUTATIONS, AND STORAGE VOLUMES FOR RE-USE ARE BASED ON A PROPOSED IMPERVIOUS PERCENTAGE OF 85%. FINAL SWM DESIGN, VAULT SIZE, STORAGE CAPACITY, RE-USE QUANTITY, ETC. SHALL BE BASED ON THE ACTUAL PROPOSED IMPERVIOUS PERCENTAGE AT THE TIME OF FINAL SITE PLAN.

TOTAL RUNOFF VOLUME (PROPOSED CONDITIONS)
1 YR STORM: 3.14 AC X 1.88 (IN) X 1.578 (CF/A/IN) X 43560 (SF/AC) = 21,429 CU. FT.
2 YR STORM: 3.14 AC X 2.33 (IN) X 1.578 (CF/A/IN) X 43560 (SF/AC) = 26,788 CU. FT.
10 YR STORM: 3.14 AC X 4.58 (IN) X 1.578 (CF/A/IN) X 43560 (SF/AC) = 32,204 CU. FT.

TOTAL RUNOFF VOLUME (ALLOWABLE RELEASE)
PER LEED POST-DEVELOPED VOLUME FOR THE 1 YEAR AND 2 YEAR STORMS MUST NOT EXCEED THE EXISTING CONDITIONS VOLUME. THEREFORE ANY ADDITIONAL STORAGE REQUIRED SHALL BE MET WITH A REUSE VAULT.

1-YEAR STORM
21,429 CU. FT. - 7,751 CU. FT. = 13,678 CU. FT.

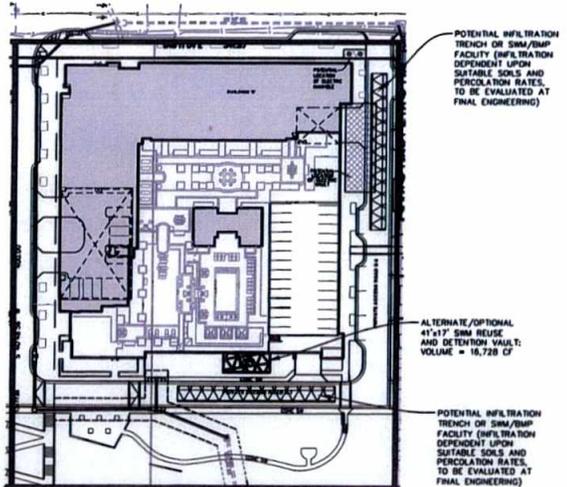
2-YEAR STORM
26,788 CU. FT. - 11,171 CU. FT. = 15,615 CU. FT.

1" COMPREHENSIVE PLAN NOTE:

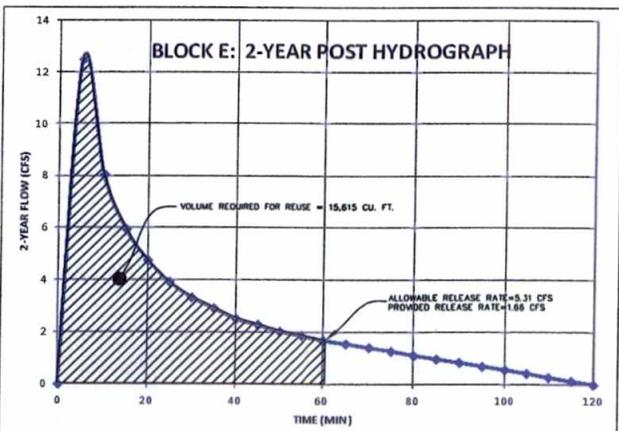
THE INFILTRATION VOLUME IS TO BE DETERMINED AT FDP. IF IT IS NOT PRACTICABLE TO RETAIN SMALL AREAS OF THE SITE PERMITTED DUE TO REQUIRED SITE GRADING, HOWEVER, THE FULL 1-INCH RAIN EVENT CAN BE RETAINED ON SITE BY OVER RETAINING UP TO 1.4-INCHES OF RAIN THAT FALLS ON THE BUILDING ROOF IF THE RUNOFF REDUCTION MEASURES AND COMPUTATIONS SHOWN HEREIN ARE APPROVED BY THE COUNTY. IF THE RUNOFF REDUCTION MEASURES AND/OR COMPUTATIONS SHOWN HEREIN ARE NOT APPROVED BY DPWS, THE APPLICANT WILL NEGOTIATE WITH THE COUNTY TO RETAIN THE FIRST 1-INCH OF RAINFALL TO THE EXTENT PRACTICABLE IN ACCORDANCE WITH THE COMPREHENSIVE PLAN GOAL.

IN FURTHERANCE OF THE APPLICANT'S COMMENTS HEREIN AND WHILE IT INTENDS TO MEET THE 1-INCH USING THE TECHNIQUES SHOWN, IT RESERVES THE RIGHT TO UTILIZE ANY COMBINATION OF LID (EXISTING AND FUTURE) MEASURES TO MEET THIS GOAL SUBJECT TO THE REVIEW AND APPROVAL OF DPWS AT TIME OF SITE PLAN.

RECOGNIZING THAT RUNOFF REDUCTION TECHNOLOGIES ARE RELATIVELY NEW AND STILL EVOLVING, SHOULD THE APPLICANT'S FINAL DESIGN DEVELOPMENT AND/OR DPWS COMMENTS ON THE SITE PLAN RESULT IN CHANGES TO THE LID MEASURES SHOWN ON THE COP AND/OR FDP, INCLUDING, BUT NOT LIMITED TO, ELIMINATION OR ADDITION OF MEASURES SO LONG AS THESE CHANGES DO NOT AFFECT THE QSD OF STREETS, THE GENERAL LOCATION OF THE POINTS OF ACCESS TO EACH BLOCK, THE GENERAL LOCATION OF THE BUILDINGS, THE BUILD-TO LINES, THE MINIMUM AMOUNT AND GENERAL LOCATION OF PUBLICLY-ACCESSIBLE URBAN PARK LAND AS MAY BE APPLICABLE FOR EACH BLOCK AND THE GENERAL QUALITY AND CHARACTER OF THE STREETSCAPE ALONG THE PUBLIC AND PRIVATE STREETS WITHIN AND ADJUTING THE SUBJECT PROPERTY AND AS OTHERWISE SPECIFIED IN THE PROFFERS.



BLOCK E SWM VAULT LOCATION
SCALE 1"=40'



SWM NOTE:
BY MEETING THE REQUIRED VOLUME REUSE FOR THE 1 YEAR AND 2 YEAR STORMS THE PEAK ATTENUATION HAS AUTOMATICALLY BEEN MET FOR THE 1 YEAR, 2 YEAR, AND 10 YEAR STORMS.

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PLAN STATUS

01/29/11	PER COUNTY COMMITMENT

SCALE AS SHOWN
JOB No.
DATE : APRIL 26, 2011
FILE No.: 7403-07-001
SHEET C10.6

GENERAL INFORMATION:

THE SUBJECT SITE OF THIS APPLICATION IS THE AMT PROPERTY AND IS LOCATED ON TAX MAP PARCEL 029-4-07-009A. THIS SITE COMPRISES THE PROPOSED BLOCK "F" AS NOTED IN THE RECENTLY FILED COP APPLICATION FOR ARBOR ROW.

EXISTING CONDITIONS:

THE STORMWATER QUANTITY AND QUALITY (BMP) REQUIREMENTS FOR THE EXISTING SITE ARE CURRENTLY PROVIDED BY THE EXISTING REGIONAL POND "C" LOCATED NORTH OF THE SITE AND ADJACENT TO THE SOUTHWEST QUADRANT OF THE RTE. 267-495 INTERCHANGE AS SHOWN IN PLAN NO. 6377-P1-01.

PROPOSED CONDITIONS:

ADDITIONAL STORMWATER MANAGEMENT AND BMP MEASURES WILL BE PROVIDED ON SITE TO COMPLY WITH THE PFM REQUIREMENTS AND TYSONS CORNER URBAN CENTER (TCUC) STORMWATER GOALS ASSOCIATED WITH THIS APPLICATION.

GENERALLY, THESE ADDITIONAL MEASURES WILL BE ACHIEVED BY THE USE OF VEGETATED ROOF, VEGETATED SWALES, INFILTRATION, AND DETENTION MEASURES.

SWM REQUIREMENTS AND GOALS:

IN ADDITION TO THE STANDARD STORMWATER REQUIREMENTS IN THE COUNTY'S PUBLIC FACILITIES MANUAL (PFM) FOR BOTH WATER QUANTITY AND WATER QUALITY (BMP), THERE ARE TWO STORMWATER MANAGEMENT GOALS INCLUDED IN THE AREA'S COMPREHENSIVE PLAN. GENERALLY, THESE GOALS ARE THE RETENTION ON-SITE OF THE FIRST INCH OF RAINFALL AND ACHIEVING THE LEED CREDITS SS 6.1 AND 6.2 WHICH ARE DESCRIBED IN GREATER DETAIL BELOW.

DESIGN INTENT:

THE MEANS OF ACHIEVING THE COUNTY'S STORMWATER PFM REQUIREMENTS AND TYSONS COMPREHENSIVE PLAN GOALS SHOWN IN THIS APPLICATION ARE SUBJECT TO CHANGE WITH THE PROJECT'S SITE PLAN AS APPROVED BY THE COUNTY DPWES. THE DEVELOPMENT PROJECT WILL ACHIEVE THE COUNTY'S STORMWATER REQUIREMENTS AND GOALS TO THE MINIMUM EXTENT DEPICTED IN THIS APPLICATION THROUGH A COMBINATION OF LID MEASURES, HOWEVER, THE COMPUTATIONS AND DETAILS ARE SUBJECT TO CHANGE DUE TO POTENTIAL CHANGES TO THE LIMITS, LOCATIONS AND TYPES OF LID FACILITIES. THIS APPLICATION DEPICTS THE USE OF VEGETATED SWALES IN THE WESTPARK DRIVE STREETSCAPE. THESE VEGETATED SWALES MAY BE ENTIRELY OR PARTLY REPLACED WITH URBAN BIORETENTION IF IT IS DETERMINED TO BE MORE APPROPRIATE DURING THE PREPARATION OF THE PROJECT'S SITE PLAN. THE TERM VEGETATED SWALES IS USED IN THE COUNTY'S PFM, HOWEVER, THEY ARE ESSENTIALLY THE SAME THING AS DRY SWALES AS SPECIFIED BY THE VIRGINIA DCR. THE SWALES WILL BE CONSTRUCTED USING THE MATERIAL SPECIFICATIONS FROM THE COUNTY PFM AND/OR DCR, HOWEVER, OTHER DESIGN AND CONSTRUCTION DETAILS SUCH AS FREEBOARD MAY VARY FROM THESE STANDARDS AS APPROVED BY THE COUNTY DPWES DUE TO THE CONSTRAINTS IMPOSED BY THE STREETScape APPLICATION WITHOUT THE NEED FOR A WAIVER FROM THE COUNTY. URBAN BIORETENTION, IF USED, WILL COMPLY WITH THE DCR DESIGN AND CONSTRUCTION SPECIFICATIONS.

STANDARD PFM SWM NARRATIVE:

REQUIREMENT:

IN ACCORDANCE WITH THE STANDARD COUNTY REQUIREMENTS, THE POST DEVELOPMENT PEAK RATES OF RUNOFF FROM THE 2 AND 10-YEAR STORM EVENTS SHALL NOT EXCEED THE SITE'S PRE-DEVELOPMENT PEAK RELEASE RATES.

COMPLIANCE:

AS PREVIOUSLY MENTIONED, THE STORMWATER QUANTITY CONTROL FOR THE EXISTING SITE IS CURRENTLY PROVIDED BY THE EXISTING REGIONAL POND "C" LOCATED NORTH OF THE SITE AND ADJACENT TO THE SOUTHWEST QUADRANT OF THE RTE. 267-495 INTERCHANGE.

THE PROPOSED CONDITIONS WILL RESULT IN A NOMINAL INCREASE IN THE PEAK RATE OF RUNOFF AS COMPARED TO THE EXISTING CONDITION AND THEREFORE ADDITIONAL DETENTION WILL BE PROVIDED IN THE INFILTRATION FACILITY BY STORING STORMWATER IN THE GRAVEL PERCOLATION TRENCH (ABOVE THE DESIGN INFILTRATION VOLUME) AND RELEASED THROUGH A CONTROL STRUCTURE. PLEASE REFER TO THE SCHEMATIC DETAIL OF THE COMBINED INFILTRATION/DETENTION FACILITY ON SHEET P-0503.

STANDARD BMP NARRATIVE:

REQUIREMENT:

THE EXISTING DEVELOPMENT'S WATER QUALITY REQUIREMENTS ARE CURRENTLY PROVIDED BY THE EXISTING REGIONAL POND "C" DISCUSSED IN THE GENERAL INFORMATION SUMMARY ABOVE. THIS POND IS DESIGNED TO PROVIDE 40% PHOSPHOROUS REMOVAL FOR ITS DRAINAGE AREA WHICH INCLUDES OUR SITE, PARCEL F. THIS IS DOCUMENTED IN FAIRFAX COUNTY PLAN "STUDY OF THE EXISTING WESTPARK STORMWATER DETENTION FACILITIES INCLUDING POND A, B, D, & C" (PLAN NO. 6377-P1-01).

COMPLIANCE:

THE REGIONAL POND IS DESIGNED ASSUMING THAT THE POST DEVELOPMENT "C" FACTOR FOR ALL PROPERTIES WITHIN ITS DRAINAGE AREA WOULD BE 0.90 AT ULTIMATE DEVELOPMENT. THE DEVELOPMENT BEING PROPOSED WITH THIS APPLICATION HAS AN APPROXIMATE PROPOSED DEVELOPED "C" FACTOR OF 0.82 (DISREGARDING THE EFFECT OF THE INFILTRATION). THEREFORE, ADDITIONAL BMP IS REQUIRED.

BY PROVIDING A PARTIAL GREEN ROOF, VEGETATED SWALES AND AN INFILTRATION FACILITY WITH THE PROPOSED DEVELOPMENT WE WILL BE PROVIDING ADDITIONAL BMP MEASURES BEYOND WHAT IS REQUIRED.

COMPREHENSIVE PLAN NARRATIVE:

A. QUANTITY VOLUME REDUCTION GOAL:

THERE ARE TWO RECOMMENDED STORMWATER PARAMETERS IN THE TYSONS CORNER URBAN CENTER COMPREHENSIVE PLAN THAT PERTAIN TO CONTROLLING THE VOLUME OF STORMWATER RUNOFF RELEASED FROM THE SITE AS FOLLOWS:

1. THE COMPREHENSIVE PLAN RECOMMENDS COMPLYING WITH LEED CREDIT SS 6.1 WHICH REQUIRES THAT THE POST DEVELOPMENT VOLUME OF RUNOFF BE AT LEAST 25% LESS THAN THE EXISTING RUNOFF VOLUME FOR A 2-YEAR 24 HOUR STORM.
2. THE COMPREHENSIVE PLAN RECOMMENDS RETAINING ON SITE THE FIRST INCH OF RAINFALL TO THE MAXIMUM EXTENT PRACTICABLE.

COMPLIANCE:

THIS PROJECT PROPOSES TO REDUCE RUNOFF VOLUME THROUGH THE USE OF VEGETATED ROOF ON THE OFFICE BUILDING, VEGETATED SWALES IN THE WESTPARK DRIVE STREETSCAPE AND INFILTRATION AS DESCRIBED BELOW.

1. **VEGETATED (GREEN) ROOF** - A PORTION OF THE OFFICE BUILDING ROOF IS BEING PROPOSED AS A GREEN ROOF WHICH WILL REDUCE THE OVERALL RUNOFF VOLUME FROM THE SITE.
2. **VEGETATED SWALES** - VEGETATED SWALES (AKA DRY SWALES) ARE PROPOSED FOR THE WESTPARK DRIVE STREETSCAPE AMENITY PANEL AND WILL CONSIST OF A SYSTEM OF SHALLOW SWALES DESIGNED TO TREAT STORMWATER RUNOFF. THE VEGETATED SWALES WILL BE INTERSPERSED WITH STREET TREES. THE VEGETATED SWALES WILL COLLECT WATER FROM MUCH OF THE NARROW STRIP OF LAND THAT LIES BETWEEN THE PROPOSED BUILDING/PARKING GARAGE WALL AND THE STREET AS WELL AS THE RUNOFF FROM THE EAST ENTRANCE PLAZA. ACCORDING TO THE RECENT FAIRFAX COUNTY GUIDANCE FOR DESIGNING STORMWATER FACILITIES TO COMPLY WITH THE TYSONS STORMWATER GOALS, DRY SWALES CAN REDUCE THE VOLUME OF STORMWATER RUNOFF BY UP TO 100%.

3. **RAINWATER HARVESTING** - RAINWATER FROM THE OFFICE BUILDING ROOF WILL BE DIRECTED TO A CISTERN. SOME OF THIS COLLECTED RAINWATER RUNOFF WILL BE USED FOR ON-SITE IRRIGATION. THE UNUSED BALANCE OF THE RAINWATER IN THE CISTERN WILL BE DIRECTED TO THE INFILTRATION FACILITY DISCUSSED BELOW.

4. **INFILTRATION** - MOST OF THE SITE'S RUNOFF WILL BE DIRECTED TOWARDS THE INFILTRATION FACILITY (SEE PLAN ON SHEET P-0502). THESE AREAS INCLUDE THE RUNOFF FROM THE ROOFS AND MUCH OF THE INTERIOR PLAZA. THE VOLUME OF RUNOFF REDUCTION FOR A 2-YEAR STORM REQUIRED BY LEED AS WELL AS THE RUNOFF FROM A 1" RAIN EVENT FROM THE INFILTRATION AREAS DRAINAGE AREA WILL BE RETAINED ON SITE AND INFILTRATED THROUGH A PERCOLATION TRENCH. THE RESULTS ARE SUMMARIZED BELOW.

COMPLIANCE SUMMARY

REQUIRED VOLUME REDUCTION FOR THE 2-YEAR STORM ROUTED TO INFILTRATION TO SATISFY LEED CREDIT 6.1	9,032 CF
NET RUNOFF VOLUME FROM A 1" RAIN EVENT (AFTER RUNOFF REDUCTION) ROUTED TO INFILTRATION TO SATISFY 1" RETENTION	5,364 CF
RUNOFF INFILTRATION VOLUME TO COMPLY WITH COMPREHENSIVE PLAN GOALS	9,032 CF
ESTIMATED RUNOFF INFILTRATION VOLUME (TO BE INFILTRATED WITHIN 3 DAYS PER NOAA BMP HANDBOOK, DESIGN RATE OF 0.52"/HR)	9,032 CF

THE INFILTRATION VOLUME PROVIDED IS APPROXIMATELY 9,036 CF WHICH EXCEEDS THE REQUIRED VOLUME TO MEET THE COMPREHENSIVE PLAN GOALS. IT IS NOT PRACTICABLE TO RETAIN SMALL AREAS OF THE SITE PERIPHERY DUE TO REQUIRED SITE GRADING, HOWEVER, THE FULL 1" RAIN EVENT CAN BE RETAINED ON SITE BY OVER RETAINING UP TO 1.4" OF RAIN THAT FALLS ON THE BUILDING ROOF IF THE RUNOFF REDUCTION MEASURES AND COMPUTATIONS SHOWN HEREIN ARE APPROVED BY THE COUNTY. IF THE RUNOFF REDUCTION MEASURES AND/OR COMPUTATIONS SHOWN HEREIN ARE NOT APPROVED BY DPWES, THE APPLICANT WILL WORK WITH THE COUNTY TO RETAIN THE FIRST 1" OF RAINFALL TO THE EXTENT PRACTICABLE IN ACCORDANCE WITH THE COMPREHENSIVE PLAN GOAL.

B. PEAK REDUCTION GOAL:

TO COMPLY WITH THE LEED CREDIT SS 6.1, AS RECOMMENDED BY THE COMPREHENSIVE PLAN, THE POST DEVELOPMENT PEAK RATE OF RUNOFF FROM A 2-YEAR STORM EVENT MUST BE AT LEAST 25% LESS THAN THE EXISTING PEAK RATE.

COMPLIANCE:

FOR THIS PROJECT, THIS GOAL WILL BE ACHIEVED BY DETAINING RUNOFF IN A COMBINED UNDERGROUND PERCOLATION TRENCH AND DETENTION FACILITY BY STORING STORMWATER IN THE GRAVEL PERCOLATION TRENCH ABOVE THE DESIGN INFILTRATION VOLUME AND RELEASED THROUGH A CONTROL STRUCTURE. PLEASE REFER TO THE SCHEMATIC DETAIL OF THE COMBINED INFILTRATION/DETENTION FACILITY ON SHEET P-0503 AND ASSOCIATED COMPUTATIONS ON THIS SHEET.

AMT DRAINAGE AREA SUMMARY

Development	ENTIRE SITE		LEED BOUNDARY	
	Area (Acres)	Runoff Coefficient	Area (Acres)	Runoff Coefficient
Development	1.84	1.73	1.70	1.55
Imperviousness (%)	19	12	19	12
Soil Group	8	8	8	8
# Curve Number (CN)	63	64	63	64

Development	Area		Area	
	Area	%	Area	%
Impervious Roof (Slope of Third Floor Terrace)	0.00	0.00	0.00	0.00
Area of Landscaped Areas	0.10	5.4	0.07	4.0
Remaining Areas	1.74	94.6	1.63	96.0
Total	1.84	100.0	1.73	100.0

CN Factors	Green Roof (Extreme)		Landscaped Areas	
	Area	Weighted Average	Area	Weighted Average
Green Roof (Extreme)	0.1	5.1	0.07	4.0
Landscaped Areas	0.1	5.1	0.07	4.0
Remaining Surfaces	1.73	94.8	1.63	96.0
Weighted Average	63	96	63	96

*HSG B soil is based on 1990 Fairfax County soil map. The 2011 County map lists the soil as number 16 - Urban Land which lacks a specific HSG. Use of the HSG B is conservative for these SWM computations.

The vegetated swales will consist of a depressed streetscape area located in the Westpark Drive landscape amenity panel modified to treat stormwater runoff. Vegetated swales provide runoff reduction according to the recent County guidance on designing stormwater management for development in the Tyson's Corner Urban Center area. The runoff reduction provided by the vegetated swales in the streetscape is accounted for in the runoff volume computation for the area.

PEAK RUNOFF RATE COMPUTATIONS

Development	ENTIRE SITE		LEED BOUNDARY	
	Area (Ac)	Time of Concentration (min)	Area (Ac)	Time of Concentration (min)
Development	1.84	1.73	1.70	1.55
Avg. Site Runoff CN	63	64	63	64
Time of Concentration	6.9	6.9	6.9	6.9
Q ₁ (cfs)	4.59	4.80	4.59	4.80
Q ₂ (cfs)	10.20	10.20	10.20	10.20

Development	Area		Area	
	Area (Ac)	Time of Concentration (min)	Area (Ac)	Time of Concentration (min)
Development	1.84	1.73	1.70	1.55
Q ₁ (cfs) Before infiltration and detention	7.54	7.24	7.54	7.24
Q ₂ (cfs) Allowable	4.59	3.68	4.59	3.68
Q ₁ (cfs) Before infiltration and detention	12.71	12.71	12.71	12.71
Q ₂ (cfs) Allowable	10.20	10.20	10.20	10.20

The peak flow Q values computed using HydroFlow software and the NRCS TR-55 method and a 24-Hr Storm An underground detention facility combined with the percolation trench will be used to reduce post-development runoff below the allowable runoff peak rates.

LEED STORMWATER QUANTITY CREDIT COMPUTATION:

Note: See SWM Limits map for 1.73 Ac. LEED boundary.

Using Graphical Peak Discharge Method
NOTE: ANOTHER METHOD OF COMPUTING RUNOFF VOLUMES MAY BE USED DURING FINAL DESIGN AS APPROVED BY FAIRFAX COUNTY.

Project: AMT		WMP: 202/013	
Existing Conditions			
Date:	Drainage Area:	1.73	Acres
Runoff Curve Number:	5-100CN 10:	64	
Time of Concentration:	0.1	Hours	
Rained Type:	None		
Pond and Swamp Area:	None		
Proposed Conditions			
Date:	Drainage Area:	1.73	Acres
Runoff Curve Number:	5-100CN 10:	64	
Time of Concentration:	0.1	Hours	
Rained Type:	None		
Pond and Swamp Area:	None		
TOTAL RUNOFF VOLUME (EXISTING CONDITIONS)			
1 YR STORM:	1.73 AC X 1.21 IN X 1.171728 X 43560 =	1,395	CF
2 YR STORM:	1.73 AC X 1.66 IN X 1.171728 X 43560 =	10,365	CF

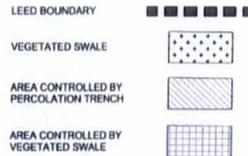
Project: AMT		WMP: 202/013	
Proposed Conditions			
Date:	Drainage Area:	1.73	Acres
Runoff Curve Number:	5-100CN 10:	64	
Time of Concentration:	0.1	Hours	
Rained Type:	None		
Pond and Swamp Area:	None		
TOTAL RUNOFF VOLUME (PROPOSED CONDITIONS)			
1 YR STORM:	1.73 AC X 1.21 IN X 1.171728 X 43560 =	1,378	CF
2 YR STORM:	1.73 AC X 2.10 IN X 1.171728 X 43560 =	16,865	CF

Project: AMT		WMP: 202/013	
TOTAL RUNOFF VOLUME (ALLOWABLE RELEASE)			
PER LEED FOR SITES THAT HAVE GREATER THAN 50% IMPERVIOUS COVER IN THE EXISTING CONDITION, THE POST DEVELOPED STORMWATER RUNOFF VOLUME FOR THE 2 YEAR STORM CANNOT EXCEED THE EXISTING CONDITIONS VOLUME LESS 25%.			
2-YEAR STORM REQUIRED VOLUME REDUCTION:			
16,955 CF LESS 15% OF 16,955 CF =	14,412	CF	

NOTES

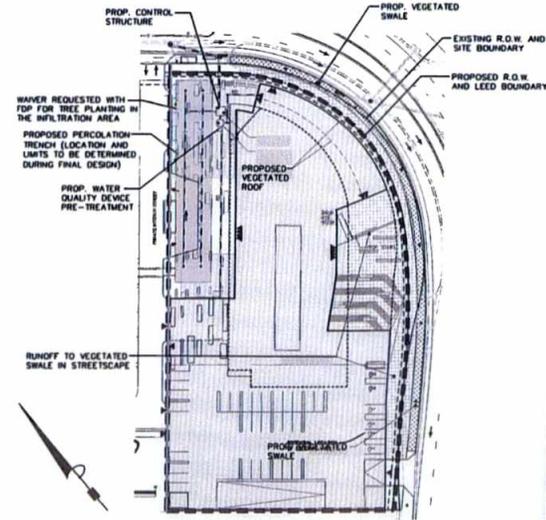
1. LOCATIONS AND LIMITS OF STORMWATER MANAGEMENT FACILITIES SUBJECT TO CHANGE WITH FINAL DESIGN.
2. STORMWATER BMP'S TO BE PRIVATELY MAINTAINED.

LEGEND



OVERLAND RELIEF NARRATIVE

THE WEST PLAZA WILL DRAIN TO THE PRIVATE INTERIOR STREET AND FROM THERE TO WESTPARK DRIVE. THE EAST PLAZA AND NARROW STRIP BETWEEN THE PARKING GARAGE AND BUILDING AND THE SIDEWALK WILL DRAIN TOWARDS WESTPARK DRIVE. THE BUILDING WILL NOT FLOOD IN A 100-YEAR STORM AND OVERLAND RELIEF IS PROVIDED.



BLOCK F SWM VAULT LOCATION

SCALE 1"=60'

Bowman
181 North Union St., 4320
Alexandria, VA 22314
703.428.1111
www.bowman.com

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1000 North 17th Street, Suite 100
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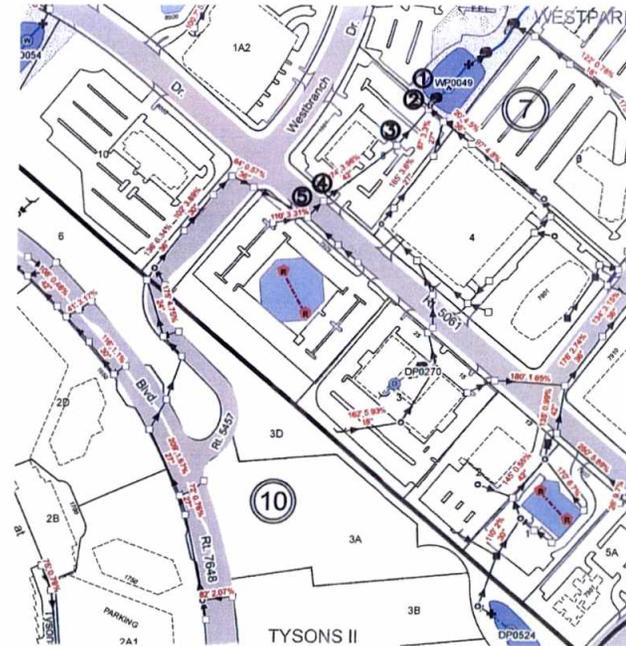
PLAN STATUS

07/20/11	PRELIMINARY
08/01/11	PRELIMINARY
08/24/11	PRELIMINARY
09/01/11	PRELIMINARY
09/21/11	PRELIMINARY
10/05/11	PRELIMINARY

DATE DESCRIPTION
SCALE: REVISIONS SHOWN
JOB No.
DATE: APRIL 26, 2011
FILE No. 7493-07-001
SHEET C10.6.1

REACH B EXISTING PIPE COMPUTATIONS

FROM POINT	TO POINT	AREA DRAIN "A" (ACRES)		RUN-OFF COEFF	CA		RAET TIME MIN	RAIN FALL IN / HR	RUN-OFF Q C.F.S.	INVERT ELEVATIONS		LENGTH FT.	S	ACTUAL SLOPE		DA IN	CAPACITY C.F.S.	FULL FLOW VEL F.P.S.	ACTUAL VEL F.P.S.
		INCREM. (3)	ACCUM. (4)		INCREM. (5)	ACCUM. (6)				LOWER (10)	UPPER (11)			MIN. (%)	MAX. (%)				
1	2	0.31	21.73	0.85	0.28	14.79	5.19	7.37	108.88	-	-	274	0.013	3.38	1.33	48	268.31	10.81	25.30
3	2	1.68	22.28	0.78	0.79	15.48	5.31	7.37	112.53	-	-	110	0.013	3.82	1.20	43	188.70	10.95	35.20
2	1	1.91	29.31	0.82	4.12	19.61	5.43	7.27	142.11	-	-	27	0.015	0.95	0.30	60	193.15	9.84	10.70
-	2	5.70	5.70	0.60	3.62	3.62	5.60	7.27	24.91	-	-	110	0.013	1.00	0.14	30	68.70	9.44	8.60



1
C10.7B REACH B OUTFALL MAP
NOT TO SCALE

Bowman
Bowman Consulting Group, LLC
14233 Thornhill Place, Suite 200
Purcellville, VA 22134
www.bowmaninc.com

PARKER RODRIGUEZ, INC.
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Arlington, VA 22204
703.548.5011
www.parkerrodriguez.com

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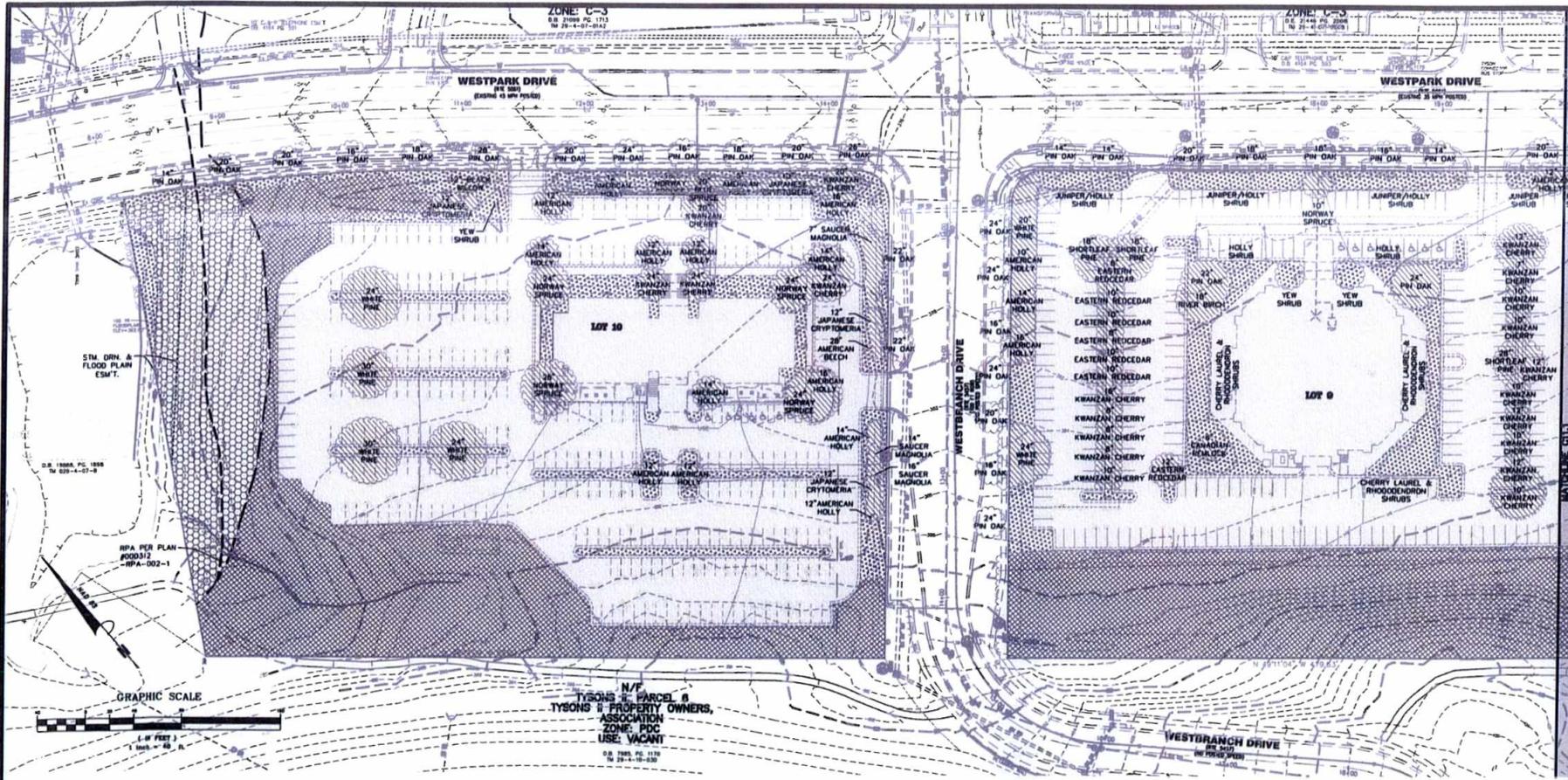
**ADEQUATE OUTFALL
ARBOR ROW**
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	DATE	DESCRIPTION
01/23/11	PER COUNTY COMMITTEE	
02/02/11	PER COUNTY COMMITTEE	
02/24/11	PER COUNTY COMMITTEE	
03/23/11	PER COUNTY COMMITTEE	

SCALE: H.A.S. 8"=1'-0"

JOB No.
DATE: APRIL 26, 2011
FILE No. 7403-07-001

DRAWN BY: C10.7.2



N/F
 TYSONS PARCEL #
 TYSONS II PROPERTY OWNERS,
 ASSOCIATION
 ZONE: PDC
 USE: VACANT
 O.B. 7805, P.C. 1120
 10 29-4-10-030

Table 12.4 Tree Preservation Target Calculations and Statement

A	Pre-development area of existing tree canopy (from Existing Vegetation Map) =	7.79 AC.
B	Percentage of gross site area covered by existing tree canopy =	18%
C	Percentage of 30-year canopy requirement for site (see Table 12.4.1) (Per Comprehensive Plan Goal = 20%)	30% (1.99 AC)
D	Percentage of the 30-year tree canopy requirement that should be met through tree preservation =	18% (.79 AC)
E	Proposed percentage of canopy requirement that will be met through tree preservation =	26% (.55 AC)
F	Has the Tree Preservation Target minimum been met?	NO
G	If the tree loss is, then a request to deviate from the Tree Preservation Target shall be provided on the plan that states one or more of the justifications listed in 12-2007.3 along with a narrative that provides a site-specific evaluation of why the Tree Preservation Target cannot be met. Provide sheet number where deviation request is located.	OK
H	If step G requires a narrative, it shall be prepared in accordance with 12-2008.6	OK
I	Place this information into the 30-year Tree Canopy Calculations as per instructions in Table 12.3	N/A

NOTE: A DEVIATION FROM THE TREE PRESERVATION TARGET HAS BEEN REQUESTED AS SHOWN ON ATTACHED REQUEST LETTER, SHEET C2.0.

LEGEND

EXISTING INDIVIDUAL TREE LINE

EXISTING TREE CANOPY LINE

* DOMINANT TREE SPECIES
 TOTAL SITE AREA = 5,387 AC.
 EXISTING TREE CANOPY = 95,791 S.F. OR 2.20 AC.
 (.52 AC OR 22,810 S.F. LANDSCAPE TREE CANOPY +
 1.13 AC OR 49,414 S.F. EARLY SUCCESSIONAL FOREST +
 .55 AC OR 23,767 S.F. BOTTOMLAND FOREST)

LOT 10 COVER TYPE

KEY	COVER TYPE	SPECIES TYPE	SUCCESSION STAGE	CONDITION	TOTAL AREA
	EARLY SUCCESSIONAL FOREST COMMUNITY	*TULIP POPLAR, BLACK LOCUST, BLACK CHERRY, WHITE PINE, RED OAK, RED MAPLE, BLACK WALNUT	EARLY	FAIR	1,134 AC
	DEVELOPED LAND	N/A	N/A	N/A	2,734 AC
	BOTTOMLAND FOREST	*TULIP POPLAR, BLACK CHERRY, AMERICAN ELM, BLACK LOCUST, WHITE PINE, RED MAPLE, ANANIAS, CATALPA	EARLY	FAIR	.55 AC
	LANDSCAPE TREE CANOPY	SEE EVM	MO-LATE	FAIR TO GOOD	.52 AC
	MISC SHRUB AND GROUND COVER	N/A	N/A	FAIR TO GOOD	.45 AC

LOT 9 COVER TYPE

KEY	COVER TYPE	SPECIES TYPE	SUCCESSION STAGE	CONDITION	TOTAL AREA
	EARLY SUCCESSIONAL FOREST COMMUNITY	*TULIP POPLAR, BLACK LOCUST, BLACK CHERRY, WHITE PINE, BLACK WALNUT, RED MAPLE	EARLY	FAIR	1,076 AC
	DEVELOPED LAND	N/A	N/A	N/A	2,406 AC
	LANDSCAPE TREE CANOPY	SEE EVM	MO-LATE	FAIR TO GOOD	.46 AC
	MISC SHRUB AND GROUND COVER	N/A	N/A	FAIR TO GOOD	.41 AC

* DOMINANT TREE SPECIES
 TOTAL SITE AREA = 4,402 AC.
 EXISTING TREE CANOPY = 66,502 S.F. OR 1.53 AC.
 (.48 AC OR 19,945 S.F. LANDSCAPE TREE CANOPY +
 1.07 AC OR 46,557 S.F. FOREST)

Bowman
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 14000 Thurmond Plaza Suite 200
 Chesapeake, Virginia 23061
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 Fax: (757) 481-5700
 www.bowmanparks.com

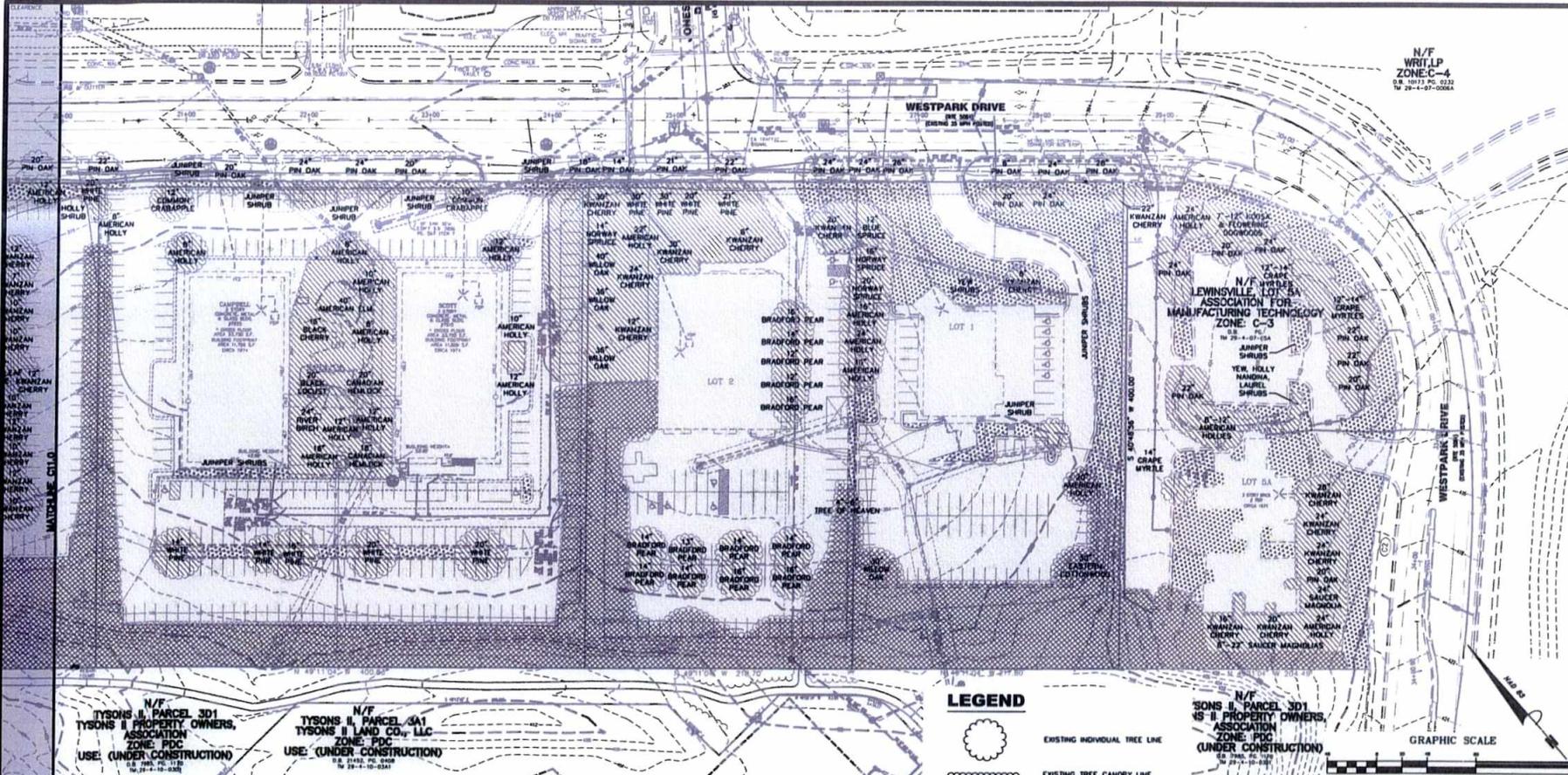
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 A SERVICE OF THE
 CITY OF FARMAC COUNTY, VIRGINIA

EXISTING VEGETATION MAP
 (SHEET 1 OF 2)
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PP-023
 PROVIDENCE DISTRICT - FARMAC COUNTY, VIRGINIA

PLAN STATUS
 07/23/21 PDR COUNTY COMMENTS
 07/23/21 PDR COUNTY COMMENTS

DATE: APRIL 28, 2011
 FILE No. 7403-07-001

C11.0



N/F
W/1/P
ZONE C-4
O.R. 10117 P.C. 0221
W 20-4-01-0004

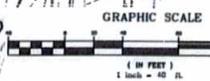
N/F
TYSONS II PARCEL 3D1
TYSONS II PROPERTY OWNERS
ASSOCIATION
ZONE PDC
USE: (UNDER CONSTRUCTION)
O.R. 7893 P.C. 1170
W 20-4-10-0008

N/F
TYSONS II PARCEL 3A1
TYSONS II LAND CO., LLC
ZONE PDC
USE: (UNDER CONSTRUCTION)
O.R. 7892 P.C. 0309
W 20-4-10-0001

N/F
SONS II PARCEL 3D1
S II PROPERTY OWNERS
ASSOCIATION
ZONE PDC
USE: (UNDER CONSTRUCTION)
O.R. 7892 P.C. 1027
W 20-4-10-0007

LEGEND

- EXISTING INDIVIDUAL TREE LINE
- EXISTING TREE CANOPY LINE



LOT 3 COVER TYPE

KEY	COVER TYPE	SPECIES TYPE	SUCCESSION STAGE	CONDITION	TOTAL AREA
	EARLY SUCCESSION FOREST	TULIP POPLAR, BLACK CHERRY, SASSAPARA, OSAGE, ORANGE, WHITE OAK, WHITE PINE, BLACK LOCUST, RED MAPLE	EARLY	FAIR	.52 AC.
	DEVELOPED LAND	N/A	N/A	N/A	2,370.3 AC.
	LANDSCAPE TREE CANOPY	SEE EVM	MD-LATE	FAIR TO GOOD	1,730.4 AC.
	MISC. SHRUB AND GROUND COVER	N/A	N/A	FAIR TO GOOD	.08 AC.

* DOMINANT TREE SPECIES
TOTAL SITE AREA = 4,807 AC.
EXISTING TREE CANOPY = 54,835 S.F. OR 1.25 AC.
(.73 AC. OR 31,889 S.F. LANDSCAPE TREE CANOPY + .52 AC. OR 22,748 S.F. FOREST)

LOT 2 COVER TYPE

KEY	COVER TYPE	SPECIES TYPE	SUCCESSION STAGE	CONDITION	TOTAL AREA
	EARLY SUCCESSION FOREST	OSAGE, ORANGE, BLACK LOCUST, BLACK CHERRY, RED MAPLE, WHITE PINE, TULIP POPLAR	EARLY	FAIR TO POOR	4,342 AC.
	DEVELOPED LAND	N/A	N/A	N/A	.9541 AC.
	LANDSCAPE TREE CANOPY	SEE EVM	MD-LATE	FAIR TO GOOD	.5967 AC.
	MISC. SHRUB AND GROUND COVER	N/A	N/A	FAIR TO GOOD	.0233 AC.

* DOMINANT TREE SPECIES
TOTAL SITE AREA = 2,008.3 AC.
EXISTING TREE CANOPY = 44,822 S.F. OR 1.03 AC.
(.59 AC. OR 25,996 S.F. LANDSCAPE TREE CANOPY + .43 AC. OR 18,926 S.F. FOREST)

LOT 1 COVER TYPE

KEY	COVER TYPE	SPECIES TYPE	SUCCESSION STAGE	CONDITION	TOTAL AREA
	EARLY SUCCESSION FOREST	OSAGE, ORANGE, BLACK LOCUST, BLACK CHERRY, NORWAY SPRUCE, PIN OAK, WHITE PINE, TULIP POPLAR	EARLY	FAIR TO POOR	.45 AC.
	DEVELOPED LAND	N/A	N/A	N/A	1.00 AC.
	LANDSCAPE TREE CANOPY	SEE EVM	MD-LATE	FAIR TO GOOD	.14 AC.
	MISC. SHRUB AND GROUND COVER	N/A	N/A	FAIR TO GOOD	.41 AC.

* DOMINANT TREE SPECIES
TOTAL SITE AREA = 2.00 AC.
EXISTING TREE CANOPY = 25,820 S.F. OR .59 AC.
(.14 AC. OR 5,973 S.F. LANDSCAPE TREE CANOPY + .45 AC. OR 19,647 S.F. FOREST)

LOT 5A COVER TYPE

KEY	COVER TYPE	SPECIES TYPE	SUCCESSION STAGE	CONDITION	TOTAL AREA
	EARLY SUCCESSION FOREST	BLACK LOCUST, RED MAPLE, BLACK CHERRY, TULIP POPLAR, SHORTLEAF PINE	EARLY	FAIR TO POOR	.14 AC.
	DEVELOPED LAND	N/A	N/A	N/A	.74 AC.
	LANDSCAPE TREE CANOPY	SEE EVM	MD-LATE	FAIR TO GOOD	.55 AC.
	MISC. SHRUB AND GROUND COVER	N/A	N/A	FAIR TO GOOD	.40 AC.

* DOMINANT TREE SPECIES
TOTAL SITE AREA = 1.83 AC.
EXISTING TREE CANOPY = 317,591 S.F. OR 7.29 AC.
(.55 AC. OR 23,973 S.F. LANDSCAPE TREE CANOPY + .14 AC. OR 6,148 S.F. FOREST)

*** OVERALL COVER TYPE**

KEY	COVER TYPE	TOTAL AREA
	EARLY SUCCESSION FOREST	3.75 AC.
	DEVELOPED LAND	10.26 AC.
	BOTTOMLAND FOREST	0.55 AC.
	LANDSCAPE TREE CANOPY	2.99 AC.
	MISCELLANEOUS (SHRUB AND GROUND COVER)	1.77 AC.

TOTAL SITE AREA = 219.32 AC.
EXISTING TREE CANOPY = 317,591 S.F. OR 7.29 AC.
(2.99 AC. OR 130,366 S.F. LANDSCAPE TREE CANOPY + 3.75 AC. OR 163,439 S.F. EARLY SUCCESSIONAL FOREST + 0.55 AC. OR 23,787 S.F. BOTTOMLAND FOREST)

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187 North Union St., #202
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Phone: (703) 443-3700
www.parkerdriguez.com

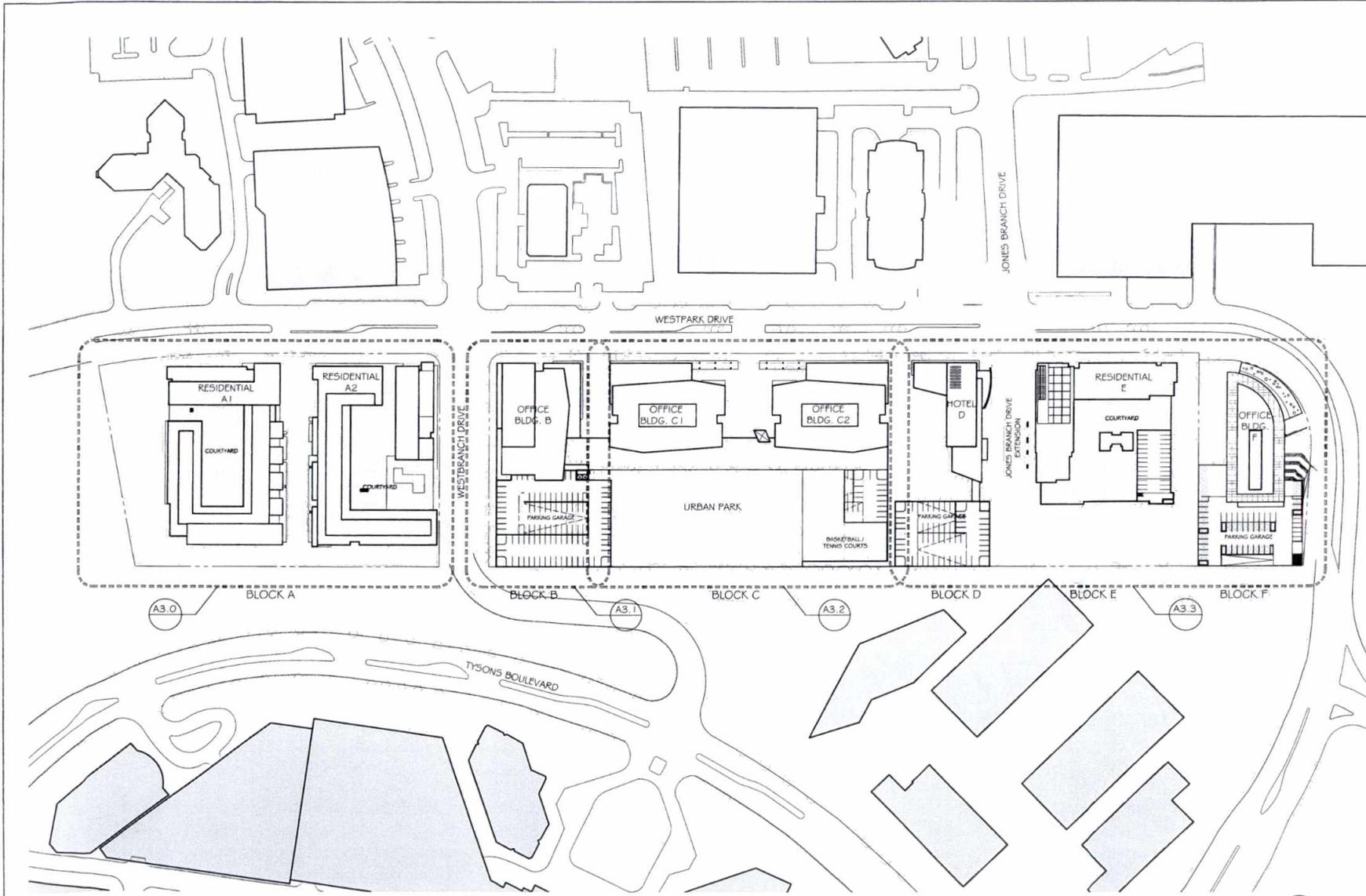
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PARTNERS
4300 Park Drive, Concord, NC 27015
www.citylineva.com

EXISTING VEGETATION MAP
(SHEET 2 OF 2)
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FARMFAC COUNTY, VIRGINIA

DATE	DESCRIPTION
07/23/11	PER COUNTY COMMENTS
07/27/11	PER COUNTY COMMENTS
07/28/11	PER COUNTY COMMENTS
07/29/11	PER COUNTY COMMENTS

SCALE: 1" = 40'

DATE: APRIL 26, 2011
FILE No. 7403-07-001



01 OVERALL ROOF PLAN - BLOCKS A THROUGH F
SCALE: 1" = 80'-0"

Architectural plans, elevations, illustrations, materials, building heights are all conceptual and are subject to revision with Final Development Plan and Final Site Plan applications.
* See Civil/Landscape drawings for proposed site information.

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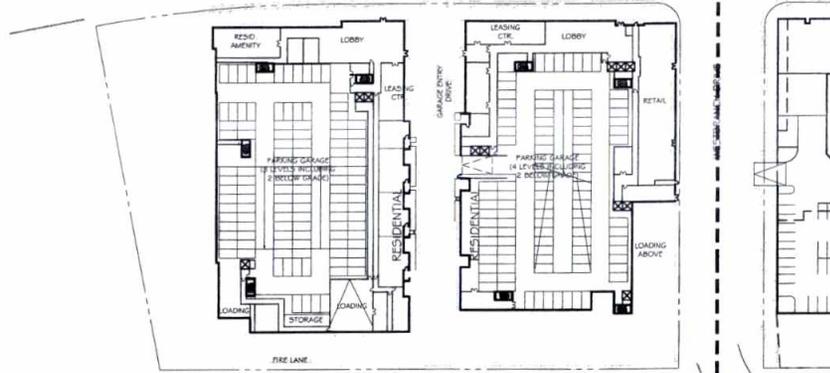
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KEY PLAN (BLOCKS A - F)
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

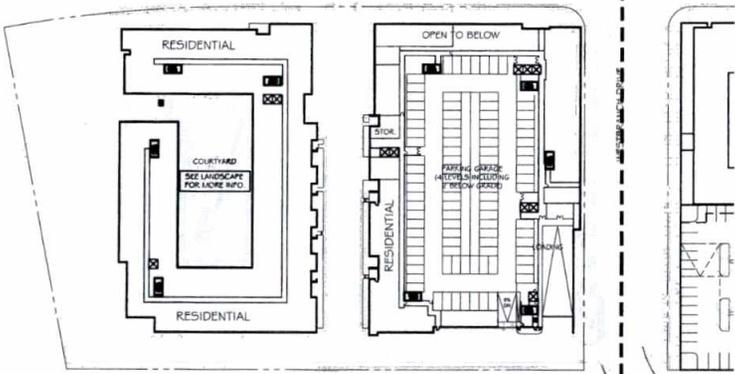
DATE	DESCRIPTION
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12/02/11	PER COUNTY COMMENTS
02/24/12	PER COUNTY COMMENTS
05/25/12	PER COUNTY COMMENTS
07/25/12	PER COUNTY COMMENTS
08/29/12	PER COUNTY COMMENTS
10/01/12	PER COUNTY COMMENTS
DATE	DESCRIPTION
SCALE	1"
JOB No.	
DATE	APRIL 26, 2011
FILE No.	7403-07-001
SHEET	A1.0



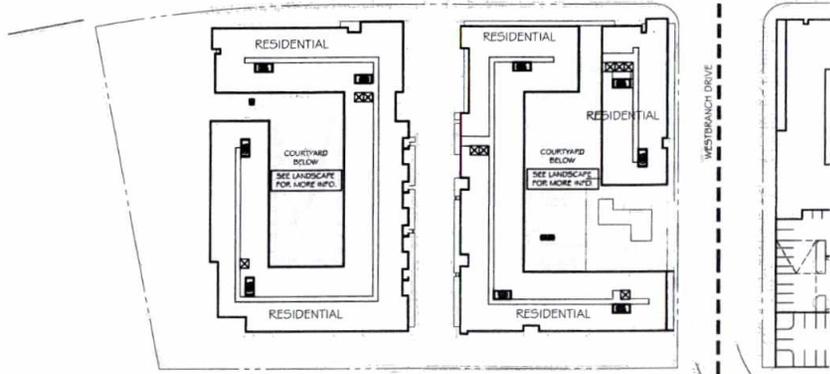
MATCHLINE
- SHEET A3.1



MATCHLINE
- SHEET A3.1



MATCHLINE
- SHEET A3.1



MATCHLINE
- SHEET A3.1

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Charlottesville, VA 22902
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Fax: (434) 963-1001
www.parkerrodriguez.com

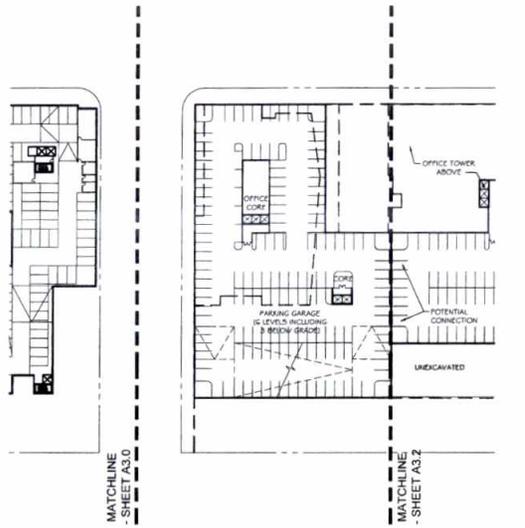
WPC
101 North Union St., #200
Charlottesville, VA 22902
Tel: (434) 963-1000
Fax: (434) 963-1001
www.wpcva.com

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101 North Union St., #200
Charlottesville, VA 22902
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Fax: (434) 963-1001
www.bowmanva.com

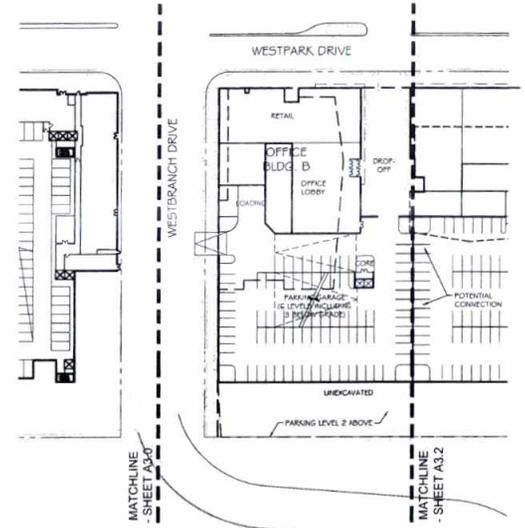
BLOCK A PLANS
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
07/23/11	PER COUNTY COMMENTS
12/07/11	PER COUNTY COMMENTS
02/24/12	PER COUNTY COMMENTS
03/23/12	PER COUNTY COMMENTS
07/23/12	PER COUNTY COMMENTS
08/29/12	PER COUNTY COMMENTS
10/01/12	PER COUNTY COMMENTS
DATE	DESCRIPTION
SCALE	1" = 60'-0"
JOB No.	
DATE	APRIL 26, 2011
FILE No.	7403-07-001
SHEET	A3.0

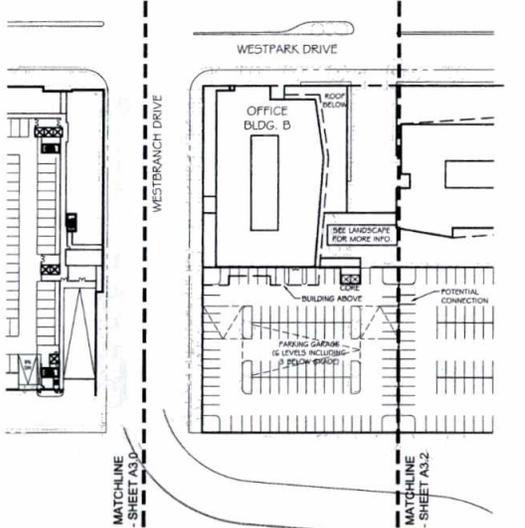
*Additional full or partial below grade parking level may be possible per final parking count. See PDP for more information.
Architectural plans, elevations, illustrations, materials, building heights etc. are conceptual and are subject to revision with Final Development Plan and Final Site Plan applications.
*See Civil/Landscape drawings for proposed site information.



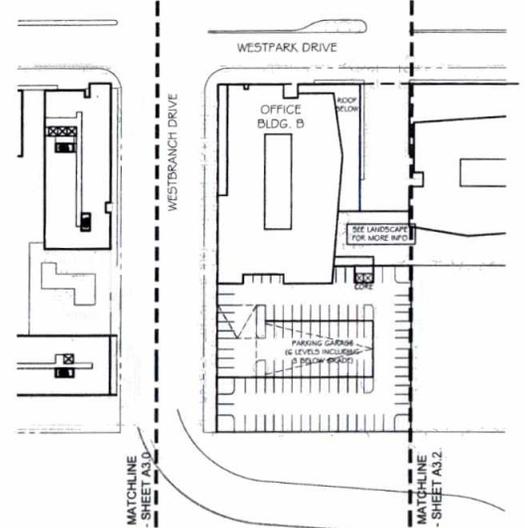
01 LEVEL B1 PLAN (LEVEL B2/B3 SIMILAR)
SCALE: 1" = 60'-0"



02 GROUND LEVEL PLAN
SCALE: 1" = 60'-0"



03 SECOND LEVEL PLAN (GARAGE LEVEL 3)
SCALE: 1" = 60'-0"



04 TYPICAL LEVEL PLAN
SCALE: 1" = 60'-0"

Architectural plans, elevations, illustrations, materials, building heights etc are conceptual and are subject to revision with Final Development Plan and Final Site Plan applications.
* See Civil/Landscape drawings for proposed site information.

Bowman
CONSULTANTS
Bowman Consulting Group, Ltd.
1420 Thornhill Place Suite 100
Alexandria, VA 22314
Phone: (703) 684-1000
www.bowmanconsultants.com

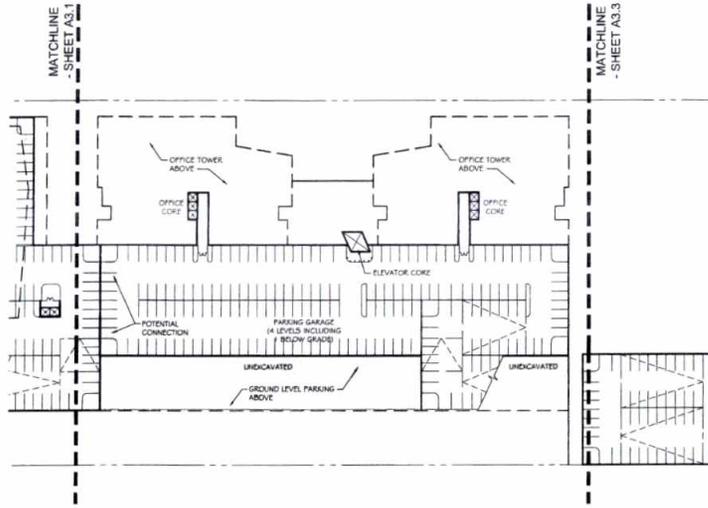
PARKER RODRIGUEZ INC
101 North Union St., 4200
Alexandria, VA 22314
Phone: (703) 684-1000
www.parkerrodriguez.com

WDC
101 North Union St., 4200
Alexandria, VA 22314
Phone: (703) 684-1000
www.wdc.com

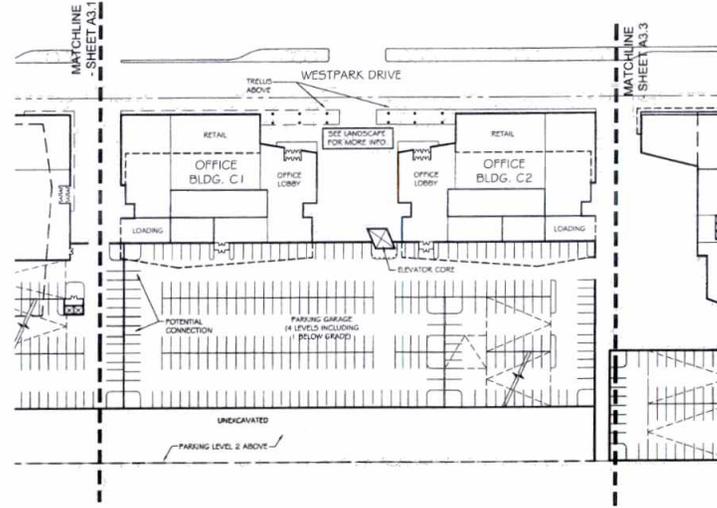
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PARTNERS
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BLOCK B PLANS
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

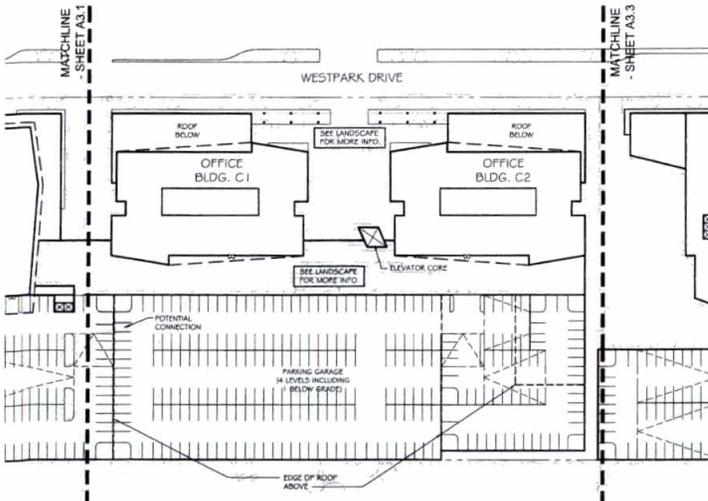
PLAN STATUS	
07/03/11	PER COUNTY COMMENTS
10/02/11	PER COUNTY COMMENTS
03/24/12	PER COUNTY COMMENTS
05/25/12	PER COUNTY COMMENTS
05/23/12	PER COUNTY COMMENTS
08/29/12	PER COUNTY COMMENTS
10/10/12	PER COUNTY COMMENTS
DATE	DESCRIPTION
SCALE	H:
JOB No.	
DATE :	APRIL 26, 2011
FILE No.	7403-07-001
SHEET	A3.1



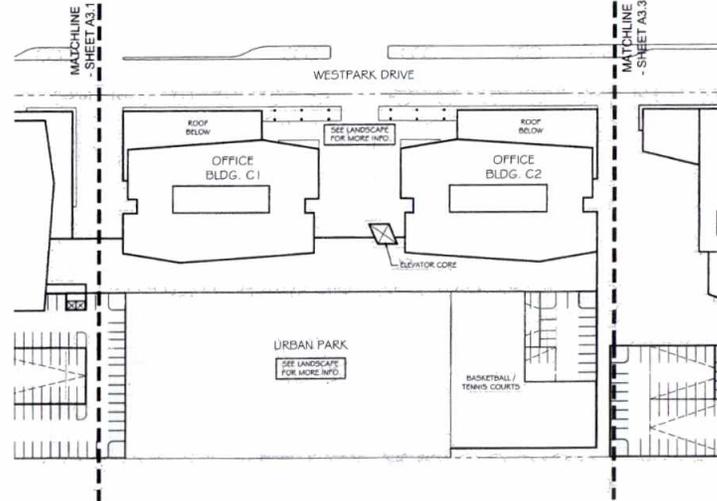
01 LEVEL B1 PLAN
SCALE: 1" = 60'-0"



02 GROUND LEVEL PLAN
SCALE: 1" = 60'-0"



03 SECOND LEVEL PLAN (GARAGE LEVEL 3)
SCALE: 1" = 60'-0"



04 TYPICAL LEVEL PLAN
SCALE: 1" = 60'-0"

Architectural plans, elevations, illustrations, materials, building heights etc are conceptual and are subject to revision with Final Development Plan and Final Site Plan applications.
* See Civil Landscape drawings for proposed site information.

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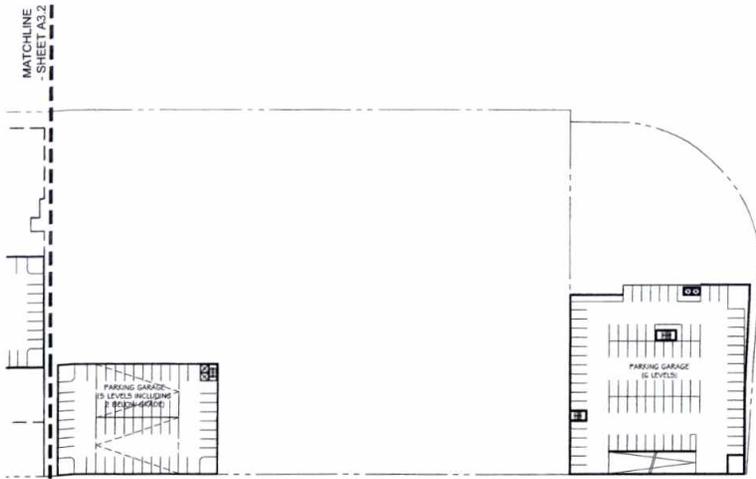
BLOCK C PLANS
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
07/22/11	PER COUNTY COMMENTS
11/07/11	PER COUNTY COMMENTS
02/14/12	PER COUNTY COMMENTS
05/29/12	PER COUNTY COMMENTS
07/23/12	PER COUNTY COMMENTS
08/29/12	PER COUNTY COMMENTS
10/18/12	PER COUNTY COMMENTS

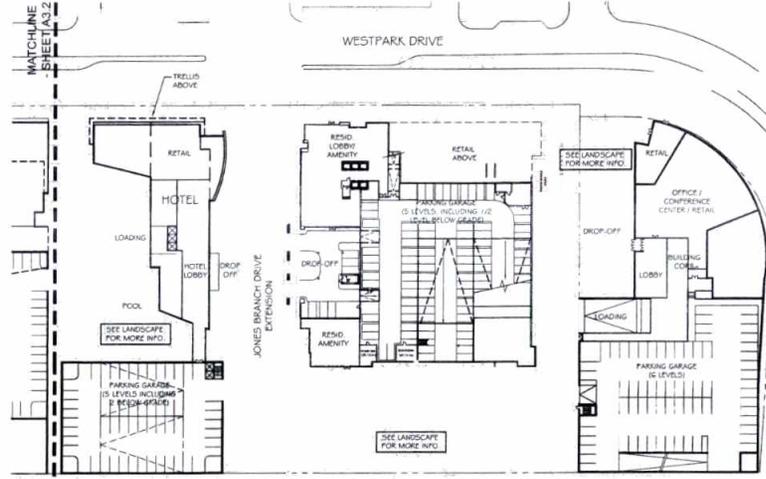
JOB No. _____
DATE: APRIL 26, 2011
FILE No. 7403-07-001

SCALE: 1" = 60'-0"

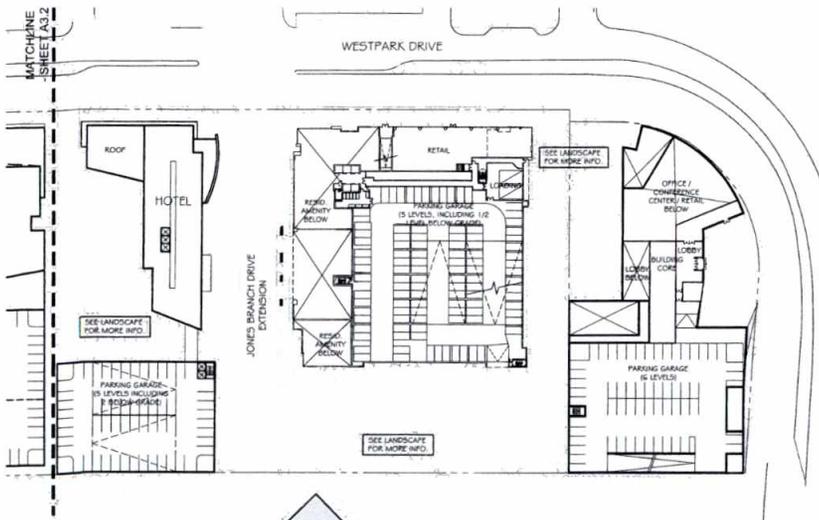
SHEET **A3.2**



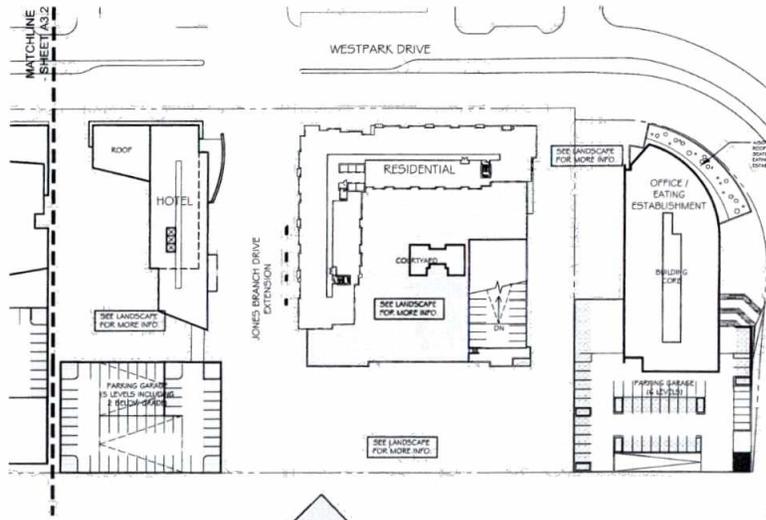
01 LEVEL B1 PLAN
SCALE: 1" = 60'-0"



02 GROUND LEVEL PLAN
SCALE: 1" = 60'-0"



03 SECOND LEVEL PLAN
SCALE: 1" = 60'-0"



04 TYPICAL LEVEL PLAN
SCALE: 1" = 60'-0"

Architectural plans, elevations, illustrations, materials, building heights etc are conceptual and are subject to revision with Final Development Plan and Final Site Plan applications.
*See Civil Landscape drawings for proposed site information

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BLOCKS D, E, & F PLANS
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
07/22/11	PER COUNTY COMMENTS
11/02/11	PER COUNTY COMMENTS
03/24/12	PER COUNTY COMMENTS
05/29/12	PER COUNTY COMMENTS
07/23/12	PER COUNTY COMMENTS
08/29/12	PER COUNTY COMMENTS
10/18/12	PER COUNTY COMMENTS

PLAN STATUS

SCALE: 1" = 60'-0"

JOB No.:

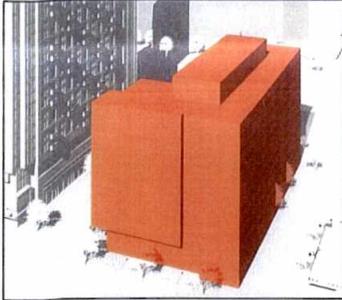
DATE: APRIL 26, 2011

FILE No. 7403-07-001

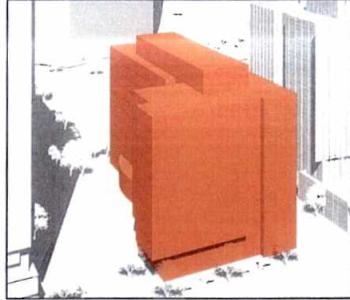
SHEET **A3.3**

TWO ALTERNATIVE HOTEL LAY-OUTS AND ALTERNATIVE HEIGHTS PROPOSED AS SHOWN ON SHEETS A3.4 AND A4.0.

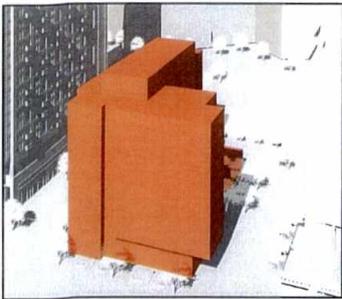
BUILDING HEIGHT : 119'-0"
NUMBER OF FLOORS: 10



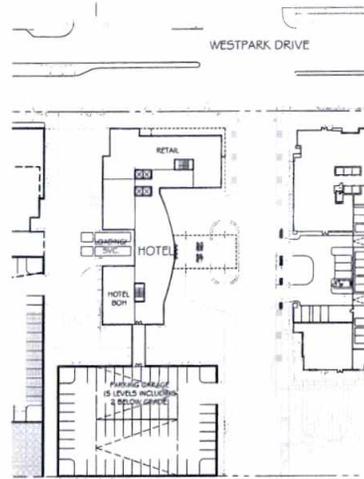
ALTERNATE 1 - MASSING STUDY



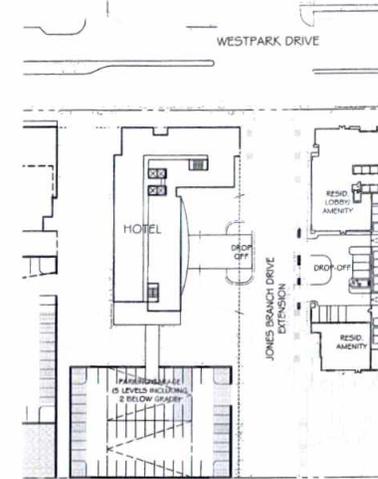
BUILDING HEIGHT : 119'-0"
NUMBER OF FLOORS: 10



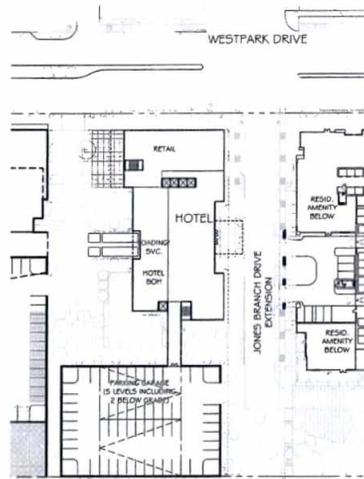
ALTERNATE 2 - MASSING STUDY



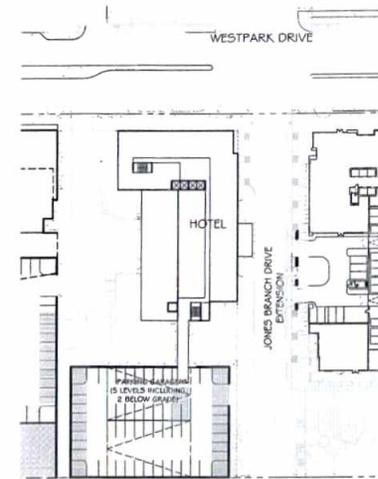
01 ALTERNATE 1 - GROUND LEVEL PLAN
SCALE: 1" = 60'-0"



02 ALTERNATE 1 - TYPICAL LEVEL PLAN
SCALE: 1" = 60'-0"



03 ALTERNATE 2 - GROUND LEVEL PLAN
SCALE: 1" = 60'-0"



04 ALTERNATE 2 - TYPICAL LEVEL PLAN
SCALE: 1" = 60'-0"

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BLOCK D ALTERNATE PLANS
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-020
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	
07/22/11	PER COUNTY COMMENTS
08/02/11	PER COUNTY COMMENTS
03/24/12	PER COUNTY COMMENTS
06/25/12	PER COUNTY COMMENTS
07/23/12	PER COUNTY COMMENTS
08/29/12	PER COUNTY COMMENTS
10/18/12	PER COUNTY COMMENTS
DATE	DESCRIPTION
SCALE	H:
JOB No.	
DATE	APRIL 08, 2011
FILE No.	7402-07-001

SHEET A3.4



01 SITE SECTION - EAST ALONG JONES BRANCH DRIVE EXTENSION
SCALE: 1" = 80'-0"

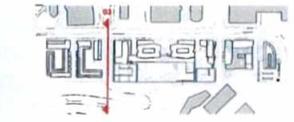
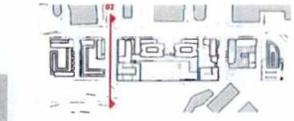
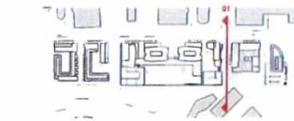


02 SITE SECTION - WEST ALONG WESTBRANCH DRIVE
SCALE: 1" = 80'-0"



03 SITE SECTION - EAST ALONG WESTBRANCH DRIVE
SCALE: 1" = 80'-0"

Site section presented on this sheet are preliminary and are provided to aid in the understanding of grade change across the subject property and the relationship of proposed buildings and other uses. Building design and final grading are subject to change with final engineering and architectural design.



*See FDP for Block A, E, and F for additional details.
Proposed building height is shown on CDP sheets A4.04.1 & 2.
Refer to CZ 5 Table 1 for allowable building height ranges.
Architectural plans, elevations, illustrations, materials, building heights etc are conceptual and are subject to revision with Final Development Plan and Final Site Plan applications.*

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SITE SECTIONS
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

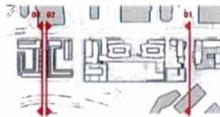
DATE	APRIL 26, 2011
NO.	7403-07-001
SCALE	A4.1



01 SITE SECTION - EAST ALONG JONES BRANCH DRIVE EXTENSION
SCALE: 1" = 50'-0"



02 SITE SECTION - WEST ALONG WESTBRANCH DRIVE
SCALE: 1" = 50'-0"



03 SITE SECTION - EAST ALONG WESTBRANCH DRIVE
SCALE: 1" = 50'-0"

Site sections presented on this sheet are preliminary and are provided to aid in the understanding of grade change across the subject property and the relationship of proposed buildings and other uses. Building design and final grading are subject to change with final engineering and architectural design.

See FDP for Block A, E, and F for additional details.
Proposed building height is shown on CDP sheets A4 04 1&2.
Refer to C2 1/2 Table 1 for allowable building height ranges.
Architectural plans, elevations, illustrations, materials, building heights etc are conceptual and are subject to revision with Final Development Plan and Final Site Plan applications.

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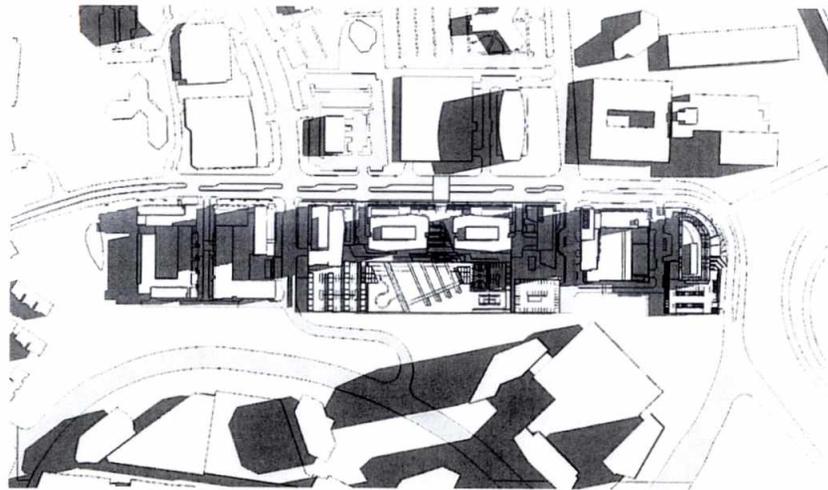
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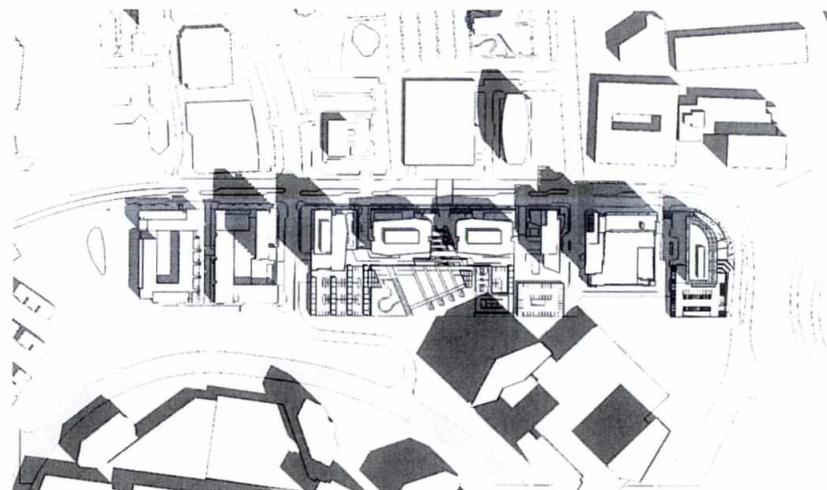
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ENLARGED SITE SECTIONS
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

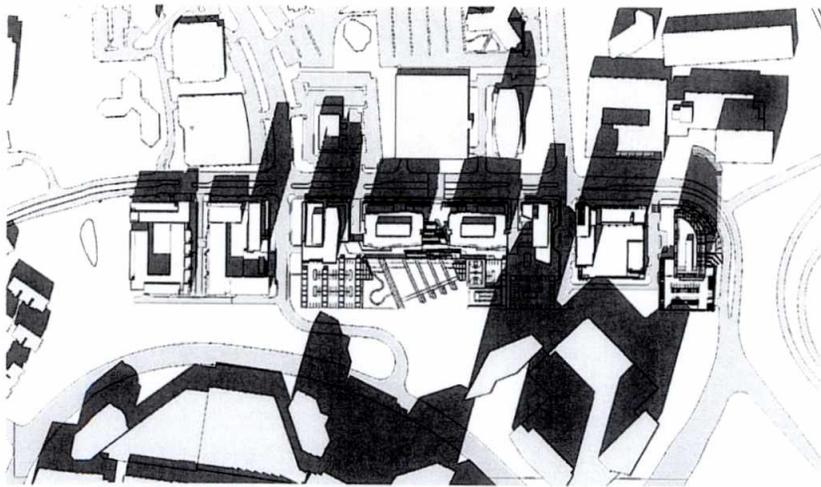
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01 9:00 AM
NTS



02 12:00 PM
NTS



03 3:00 PM
NTS

For Information Only

**MARCH / SEPTEMBER 21ST
SHADOW ANALYSIS**

-See FDP for Block A, E, and F for additional details.

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SHADOW ANALYSIS
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
07/23/11	PER COUNTY COMMENTS
11/07/11	PER COUNTY COMMENTS
02/24/12	PER COUNTY COMMENTS
05/28/12	PER COUNTY COMMENTS
07/23/12	PER COUNTY COMMENTS
08/29/12	PER COUNTY COMMENTS
09/06/12	PER COUNTY COMMENTS

PLAN STATUS

JOB No. _____
DATE **APRIL 26, 2011**
FILE No. **7402-07-001**

Scale 1" = _____

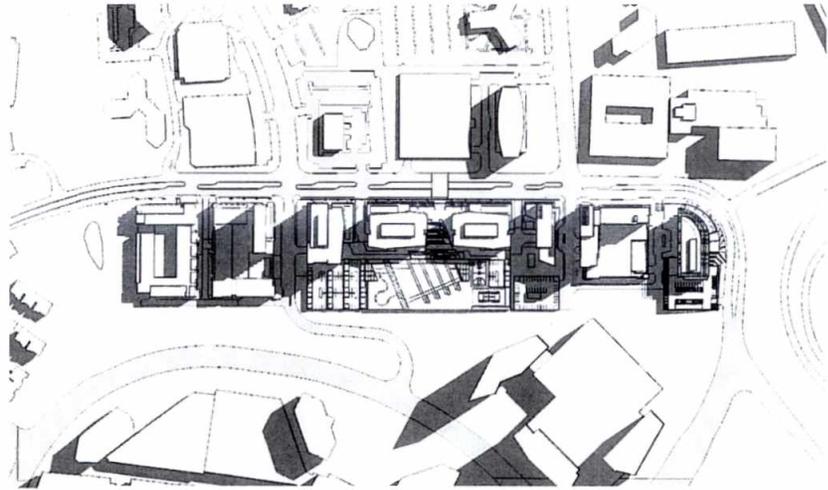
SHEET A5.0

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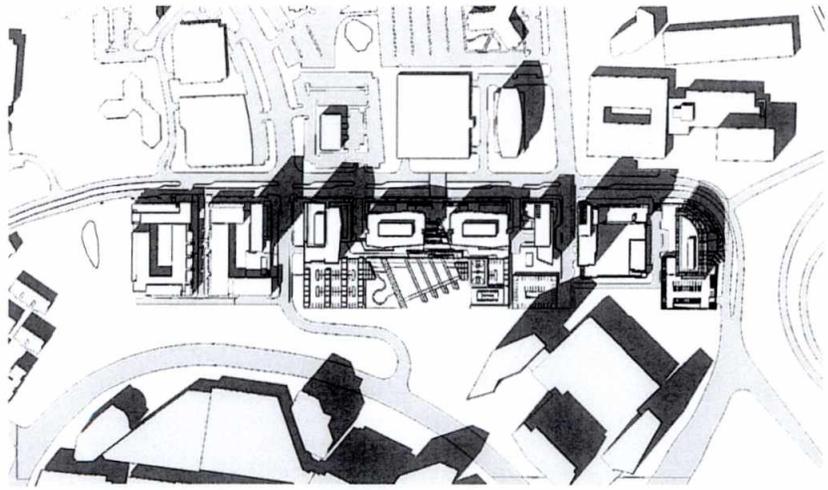
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02 12:00 PM
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03 3:00 PM
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**JUNE 21ST
SHADOW ANALYSIS**

-See FDP for Block A, E, and F for additional details.
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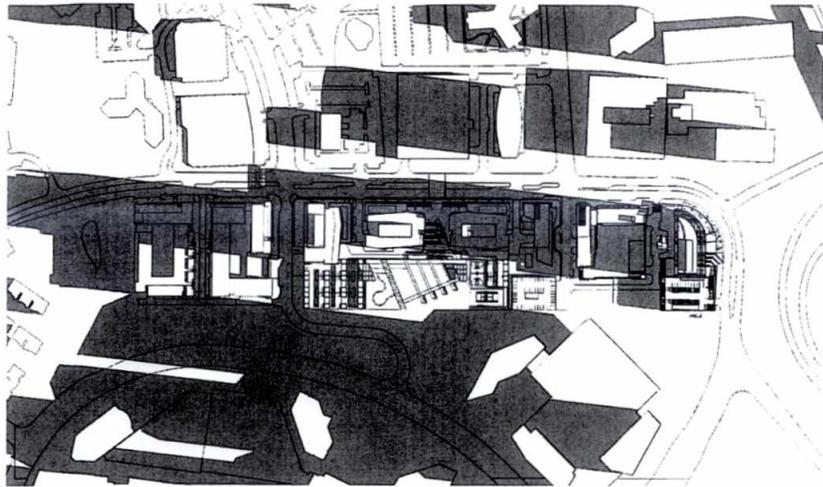
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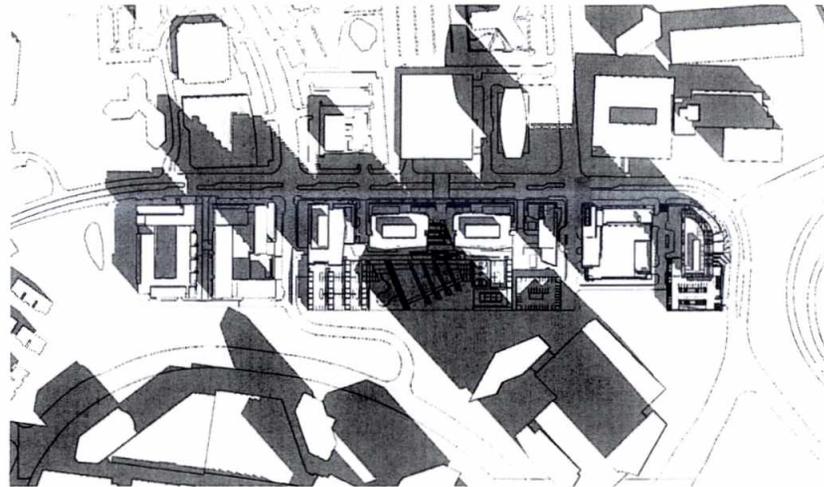
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SHADOW ANALYSIS
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

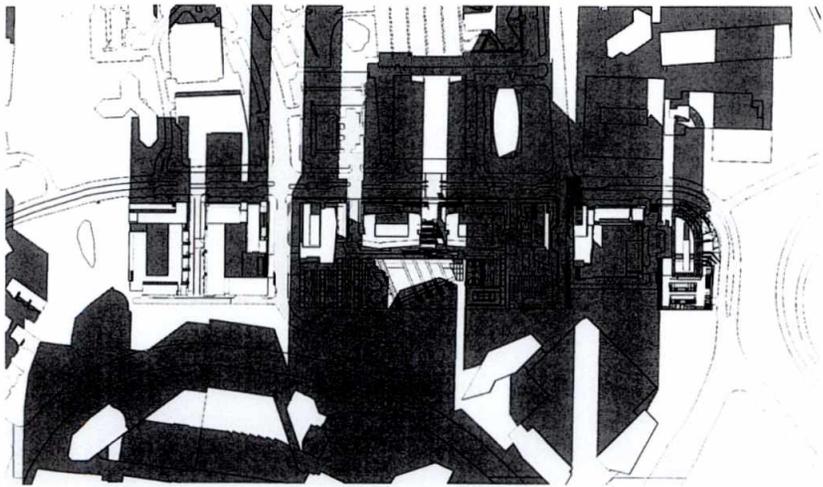
PLAN STATUS	
07/20/11	PER COUNTY COMMENTS
12/07/11	PER COUNTY COMMENTS
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08/29/12	PER COUNTY COMMENTS
10/05/12	PER COUNTY COMMENTS
DATE	DESCRIPTION
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JOB No.	
DATE	APRIL 26, 2011
FILE No.	7403-07-001
SHEET	A5.1



01 9:00 AM
NTS



02 12:00 PM
NTS



03 3:00 PM
NTS

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**DECEMBER 21ST
SHADOW ANALYSIS**

-See FDP for Block A, E, and F for additional details.
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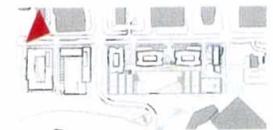
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SHADOW ANALYSIS
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	
07/22/11	PER COUNTY COMMENTS
12/07/10	PER COUNTY COMMENTS
02/24/11	PER COUNTY COMMENTS
05/23/11	PER COUNTY COMMENTS
07/22/11	PER COUNTY COMMENTS
08/09/11	PER COUNTY COMMENTS
08/09/11	PER COUNTY COMMENTS
DATE	DESCRIPTION
SCALE	"
JOB No.	
DATE	APRIL 26, 2011
FILE No.	7403-07-001
SHEET	A5.2



-See FDP for Block A, E, and F for additional details.
 Architectural plans, elevations, reflections, materials, building heights etc are conceptual and are subject to revision with Final Development Plan and Final Site Plan applications.

For Information Only

PERSPECTIVES
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

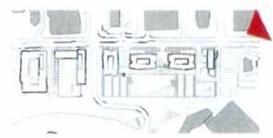
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07/25/12	PRIN. COUNTY COMPLETION
09/28/12	PRIN. COUNTY COMPLETION
01/22/13	PRIN. COUNTY COMPLETION
04/17	PRIN. COUNTY COMPLETION
DATE	DESCRIPTION
SET 1	4-
JOB NO.	4
DATE	APRIL 26, 2011
FILE NO.	7403-07-001
SHEET	A6.5

Cityline PARTNERS
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 www.parkerrodriguez.com

Bowman
 1400 Northumberland Street, Suite 300
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 Phone: 703.682.4000
 Fax: 703.682.4000
 www.bowman.com



-See FDP for Block A, E, and F for additional details.

Architectural plans, elevations, illustrations, materials, building heights etc. are conceptual and are subject to revision with Final Development Plan and Final Site Plan applications.

For Information Only

PERSPECTIVES
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-028
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN SHEET	07/23/11	PR COUNTY COMPLETS
	03/20/11	PR COUNTY COMPLETS
	05/24/10	PR COUNTY COMPLETS
	05/28/10	PR COUNTY COMPLETS
	07/21/10	PR COUNTY COMPLETS
	06/29/10	PR COUNTY COMPLETS
	06/25/10	PR COUNTY COMPLETS
DATE	4	
SHEET	4	
JOB No.	APRIL 28, 2011	
DATE	FILE No. 7403-07-001	
SHEET	A6.6	

Cityline PARTNERS
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 OLI / Abel / Elmer / Capital Partners

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 Fax: 703.836.1100
 www.pakerrdriguez.com
 Planning Urban Design
 Landscape Architecture

Bowman
 P O BOX 1111
 Bowman Consulting Group, Ltd.
 14000 Transamerica Plaza Suite 900
 Fairfax, VA 22031
 Phone: 703.644.1000
 Fax: 703.644.1000
 www.bowmanva.com
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FOR INFORMATION ONLY

LEGEND

- URBAN STREET EDGE
- METRO LINE
- GREEN LINKS
- PLAZAS AND POCKET PARKS
- GREEN CONNECTIONS



THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

OPEN SPACE CONNECTIONS DIAGRAM
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-020
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS

01/20/11	FOR COUNTY COMMENTS
02/07/11	FOR COUNTY COMMENTS
03/24/11	FOR COUNTY COMMENTS
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12/24/30	FOR COUNTY COMMENTS

SCALE: 1/8" = 100'-0"

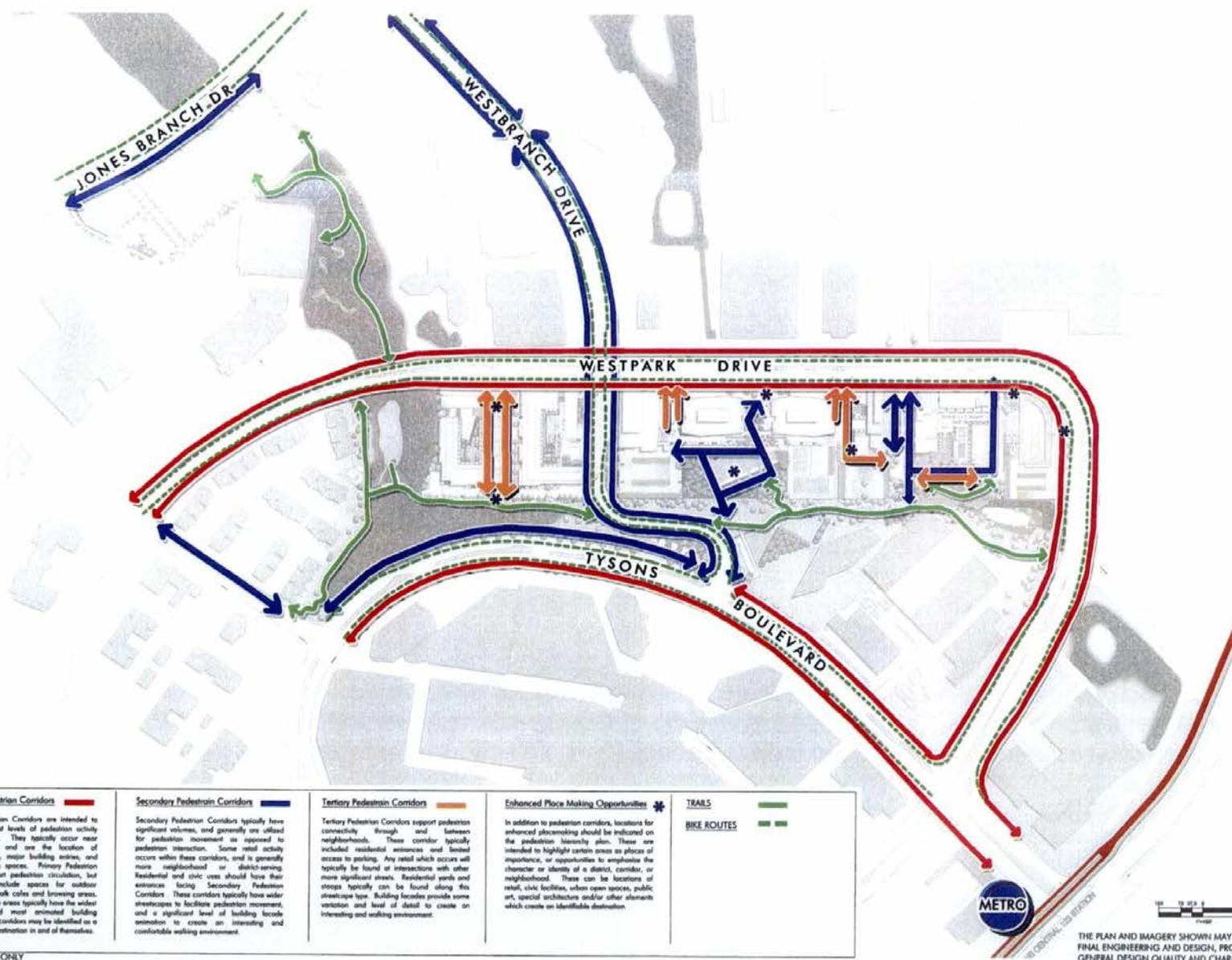
JOB No. _____
 DATE: APRIL 26, 2011
 FILE No. 7469-07-001

SHEET **L2.2**

Boyman
 1000 North Union St., 4220
 Alexandria, VA 22314
 Phone: (703) 836-2200
 Fax: (703) 836-2202
 www.boyman.com

FARRER RODRIGUEZ, INC.
 101 North Union St., 4220
 Alexandria, VA 22314
 Phone: (703) 836-2200
 Fax: (703) 836-2202
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<p>Primary Pedestrian Corridors —</p> <p>Primary Pedestrian Corridors are intended to have the highest levels of pedestrian activity and interaction. They typically occur near transit stations and are the location of significant retail, major building entrances, and social gathering spaces. Primary Pedestrian Corridors support pedestrian circulation, but should also include spaces for outdoor gathering, sidewalk cafes and browsing areas. As a result, these areas typically have the widest sidewalks and most oriented building footprints. These corridors may be identified as a neighborhood destination in and of themselves.</p>	<p>Secondary Pedestrian Corridors —</p> <p>Secondary Pedestrian Corridors typically have significant volumes, and generally are utilized for pedestrian movement as opposed to pedestrian interaction. Some retail activity occurs within these corridors, and is generally more neighborhood or district-serving. Residential and civic uses should have their entrances facing Secondary Pedestrian Corridors. These corridors typically have wider streetscapes to facilitate pedestrian movement, and a significant level of building facade orientation to create an interesting and comfortable walking environment.</p>	<p>Tertiary Pedestrian Corridors —</p> <p>Tertiary Pedestrian Corridors support pedestrian connectivity through and between neighborhoods. These corridors typically include residential entrances and limited access to parking. Any retail which occurs will typically be found at intersections with other more significant streets. Residential yards and streets typically can be found along this streetcar type. Building facades provide some variation and level of detail to create an interesting and walking environment.</p>	<p>Enhanced Place Making Opportunities *</p> <p>In addition to pedestrian corridors, locations for enhanced place-making should be indicated on the pedestrian hierarchy plan. These are intended to highlight certain areas as places of importance, or opportunities to emphasize the character or identity of a district, corridor, or neighborhood. These can be locations of retail, civic facilities, urban open spaces, public art, special architecture and/or other elements which create an identifiable destination.</p>	<p>TRAILS —</p> <p>BIKE ROUTES —</p>
---	---	--	--	--

FOR INFORMATION ONLY

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

Bowman
COLLINS & SMITH

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Fax: 703.464.8888
www.parrerodriguez.com

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Cityline PARTNERS
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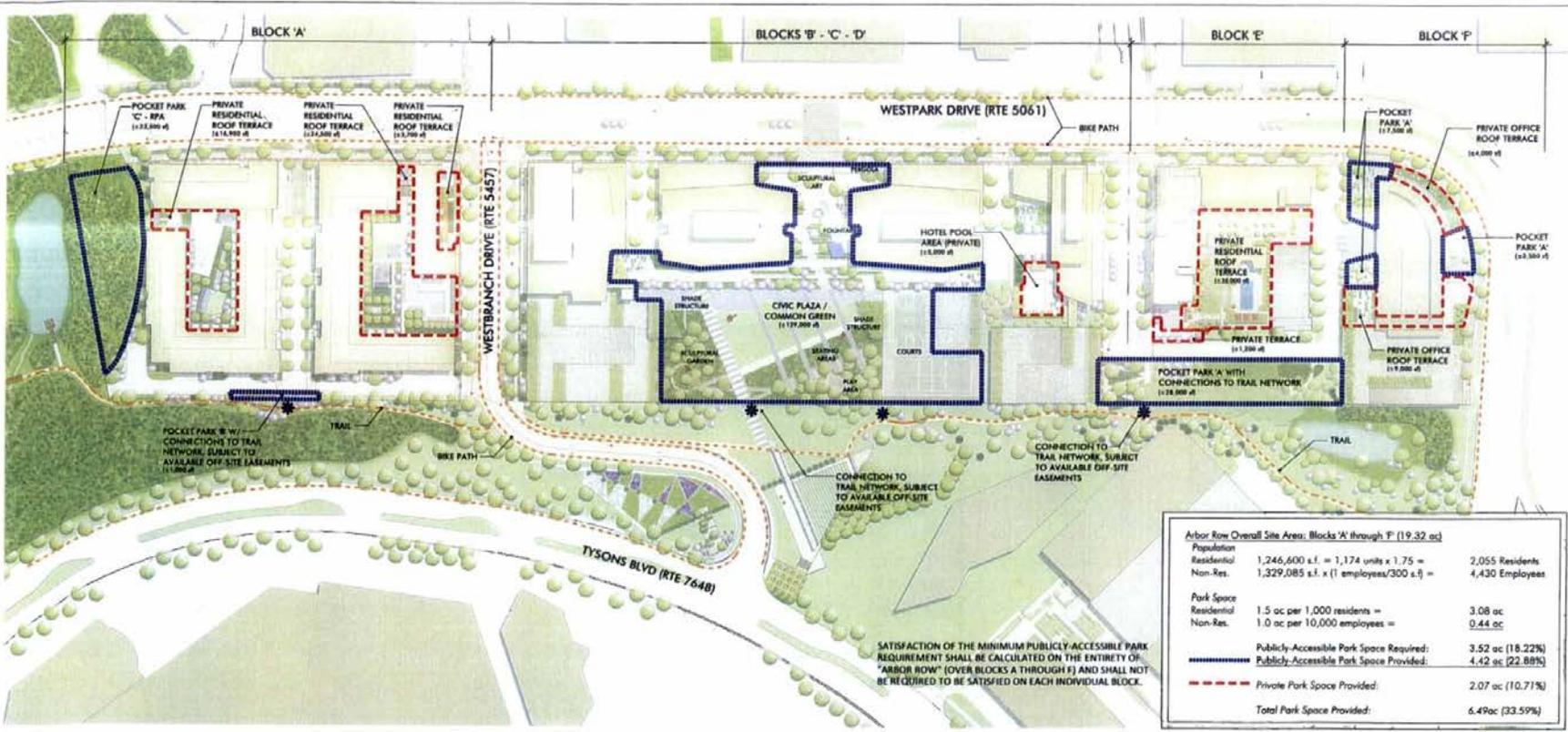
PEDESTRIAN HIERARCHY PLAN
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STAFF:
07/20/11 PR COUNTY COMMENTS
11/07/11 PR COUNTY COMMENTS
03/24/12 PR COUNTY COMMENTS
08/29/12 PR COUNTY COMMENTS
01/23/13 PR COUNTY COMMENTS
08/29/12 PR COUNTY COMMENTS
06/20/13 PR COUNTY COMMENTS

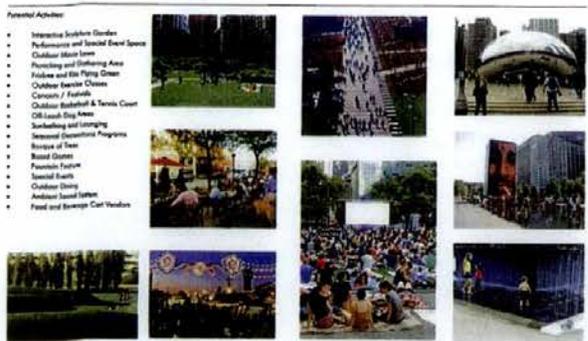
DATE: 08/29/12
SCALE: 1/8" = 100'-0"

JOB No.
DATE: APRIL 26, 2011
FILE No: 7493-01-001

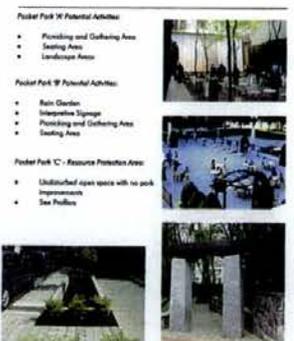
SHEET L2.3



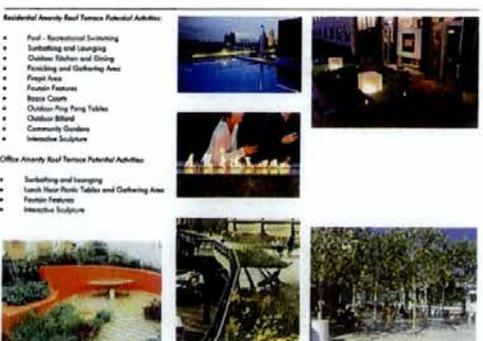
COMMON GREEN / CIVIC PLAZA - a flexible open space with open lawn areas, serving as the recreation and social focus of a neighborhood or larger area; centrally located and gathering place including public art and large enough to support annual programmed use as well as community events. Serves as a focal point and unites planning plans for site program and commercial supporting activities.



POCKET PARKS - small scale open spaces designed for casual use by people working and living in the immediate area.



PRIVATE AMENITY ROOF TERRACES - provide outdoor amenity space for residents and workers of residential building and office complexes.



INDIVIDUAL BLOCK TABULATIONS

Block 'A'	Publicly-Accessible Park Space:	±24,500 sf (0.61 ac)
	Private Open Space Provided:	±45,100 sf (1.04 ac)
Blocks 'B' - 'C' - 'D'	Publicly-Accessible Park Space:	±129,000 sf (2.96 ac)
	Private Open Space Provided:	±5,000 sf (0.11 ac)
Block 'E'	Publicly-Accessible Park Space:	±28,000 sf (0.64 ac)
	Private Open Space Provided:	±27,200 sf (0.62 ac)
Block 'F'	Publicly-Accessible Park Space:	±11,000 sf (0.25 ac)
	Private Open Space Provided:	±13,000 sf (0.30 ac)
	Total Open Space Provided:	±282,800 sf (6.49ac) (33.59%)
	*For reference only.	



THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

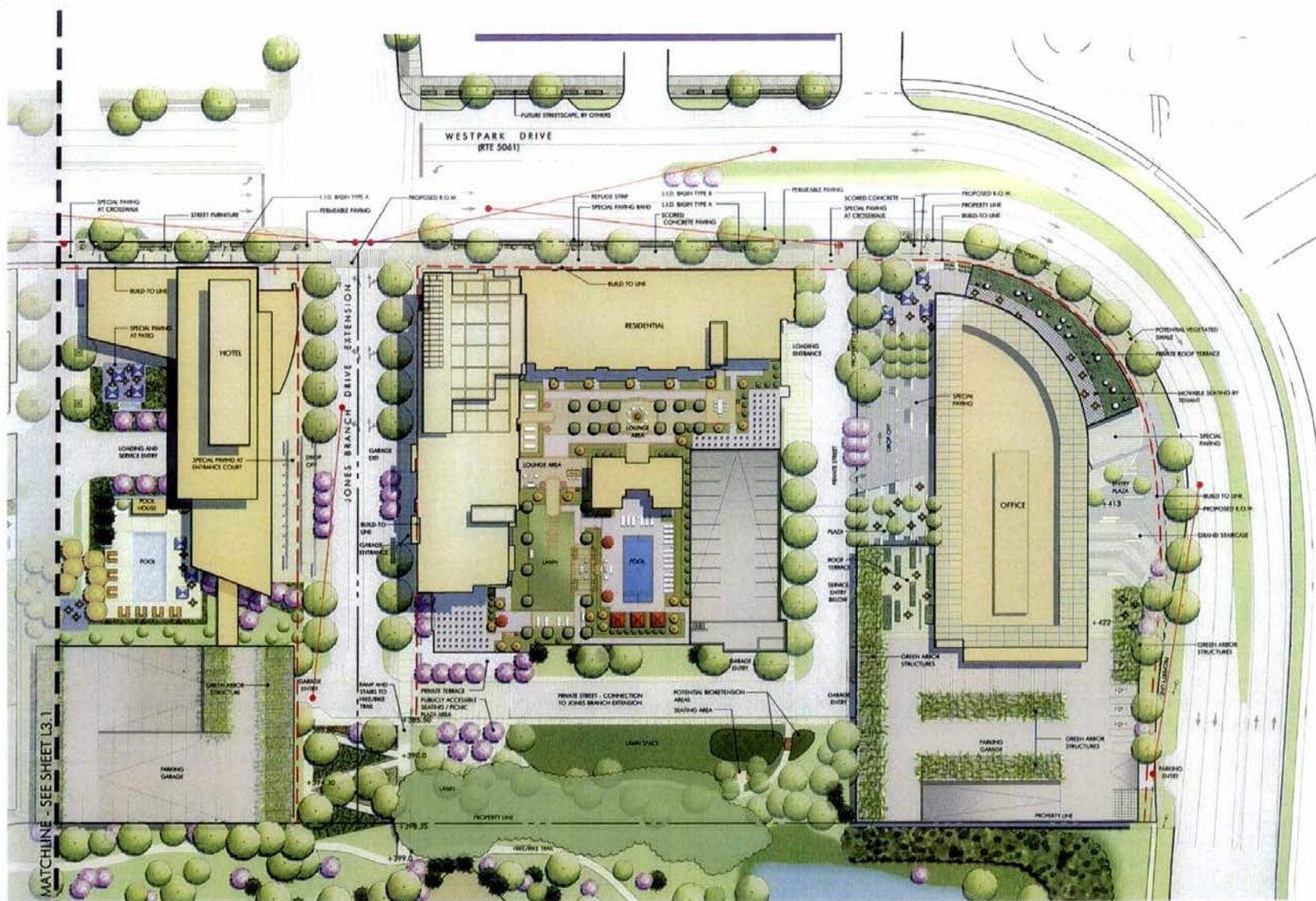
Bowman
CONCEPTUAL DEVELOPMENT

PARKER RODRIGUEZ, INC.
101 North Union St., 402E
Alexandria, VA 22314
Phone: 703.841.2000
Fax: 703.841.6779
www.parkerrodriguez.com

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URBAN PARKS PLAN
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	DATE	DESCRIPTION
PER COUNTY COMMENTS	07/27/11	
PER COUNTY COMMENTS	10/27/11	
PER COUNTY COMMENTS	05/24/12	
PER COUNTY COMMENTS	05/23/12	
PER COUNTY COMMENTS	06/28/12	
PER COUNTY COMMENTS	08/28/12	
DATE	DESIGNER	
SCALE	1" = 80' 0"	
JOB No.	710 07	
DATE	APRIL 26, 2011	
FILE No.	7103-07-001	
SHEET	L24	



MATCHLINE - SEE SHEET L3.1

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL ENGINEERING QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.



BLOCK D', E' & F' ILLUSTRATIVE PLAN
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-P01-023
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

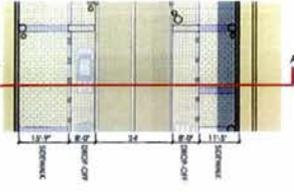
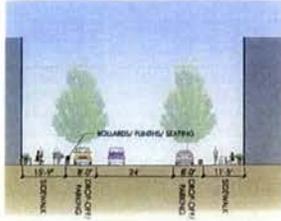
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12/02/29	PER COUNTY COMMENTS
01/02/30	PER COUNTY COMMENTS

JOB No. _____
 DATE | APRIL 26, 2011
 FILE No. 7403-07-001
 SHEET **L3.2**

Cityline PARTNERS
 A National Electric Grid Partner
 1400 North Glebe Road, Suite 100
 Arlington, VA 22204
 Phone: 703.443.1200
 Fax: 703.443.1201
 www.citylinepartners.com

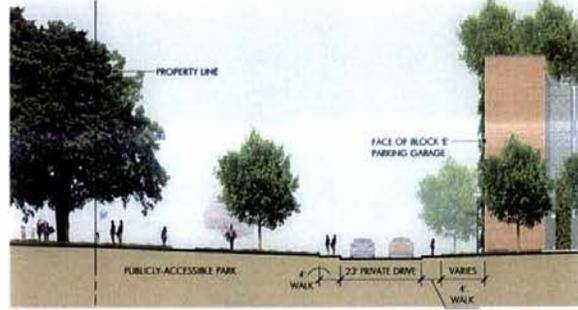
PAKERBRO DRIGUEZ, INC.
 107 North Union St., #202
 Alexandria, VA 22304
 Phone: 703.443.1200
 Fax: 703.443.1201
 www.pakerbro.com

Bowman
 1400 North Glebe Road, Suite 100
 Arlington, VA 22204
 Phone: 703.443.1200
 Fax: 703.443.1201
 www.bowman.com



04 BLOCK 'A' - PRIVATE STREET
SCALE: 1/16" = 1'-0"

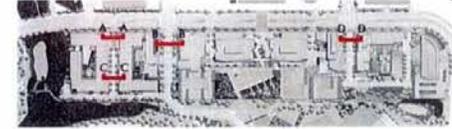
SECTION A-A



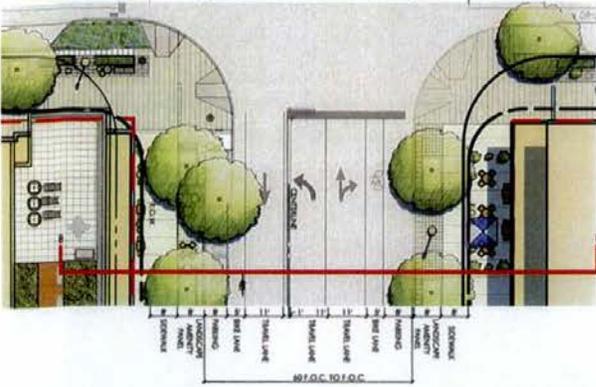
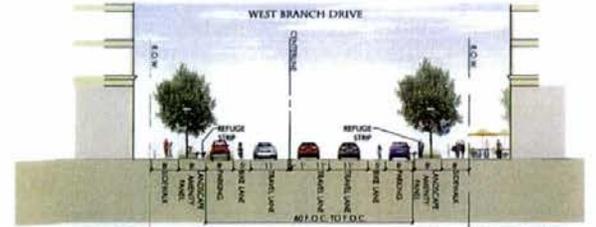
05 BLOCK 'E' - PRIVATE STREET (CONNECTOR TO JONES BRANCH)
SCALE: 1/16" = 1'-0"

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

SITE SECTIONS PRESENTED ON THIS SHEET ARE PROVIDED TO AID IN THE UNDERSTANDING OF GRADE CHANGE ACROSS THE SUBJECT PROPERTY AND THE RELATIONSHIP OF PROPOSED BUILDINGS AND OTHER USES. BUILDING DESIGN AND THE FINAL GRADING ARE SUBJECT TO CHANGE WITH FINAL ENGINEERING AND ARCHITECTURAL DESIGN.

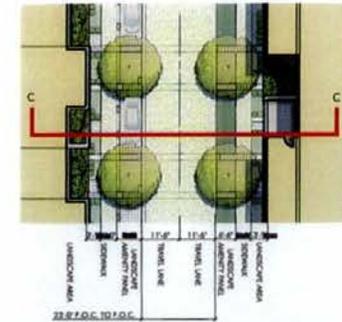
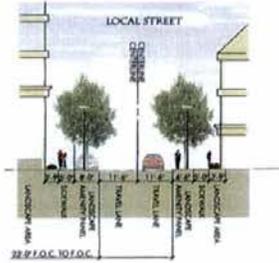


REFERENCE PLAN



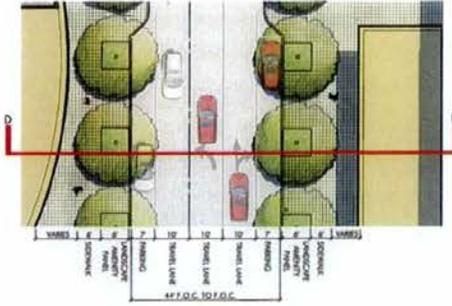
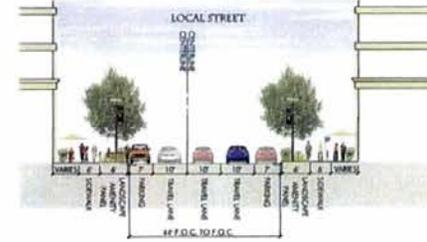
01 WEST BRANCH DRIVE (RTE 5457) - STREET SECTION (COLLECTOR)
SCALE: 1/16" = 1'-0"

SECTION B-B



02 SERVICE STREET SECTION - TYPE 'A'
SCALE: 1/16" = 1'-0"

SECTION C-C

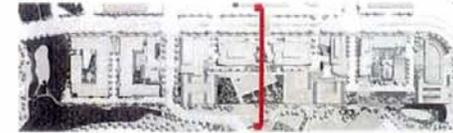


03 LOCAL STREET SECTION - JONES BRANCH EXT.
SCALE: 1/16" = 1'-0"

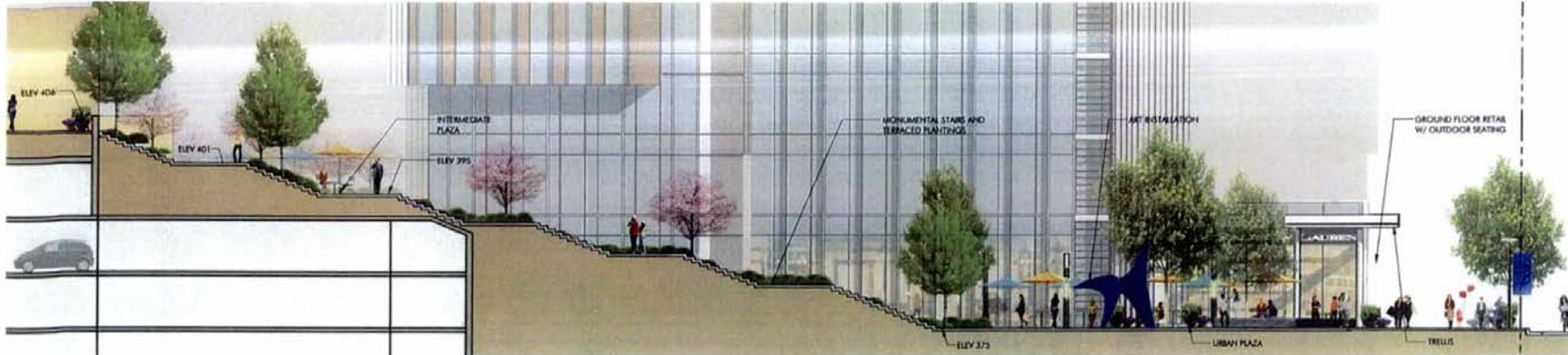
SECTION D-D

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

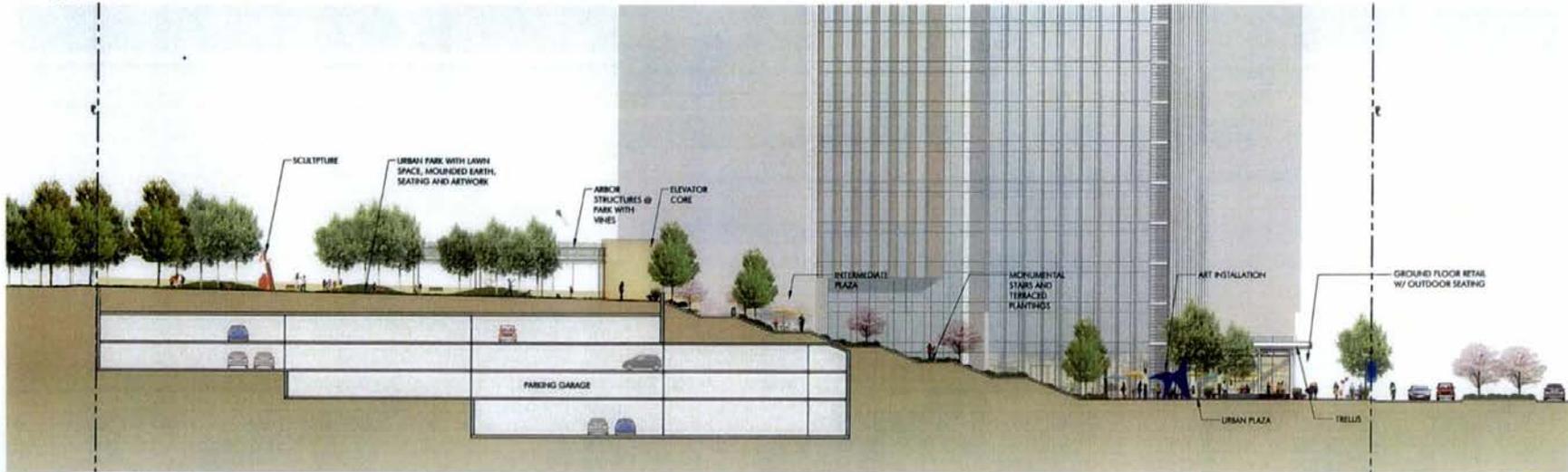
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REFERENCE PLAN



02 BLOCK C - GRAND STAIRCASE SECTION ELEVATION (ENLARGEMENT)
SCALE: 1/8" = 1'-0"



01 BLOCK C - GRAND STAIRCASE SECTION ELEVATION
SCALE: 1/16" = 1'-0"

Bowman
ARCHITECTS
1000 Commonwealth Blvd.
Alexandria, VA 22304
703.848.8800
www.bowmanarchitects.com

PARRERODRIGUEZ, INC.
1000 Commonwealth Blvd.
Alexandria, VA 22304
703.848.8800
www.parrerodriguez.com

WDC PARTNERS
1000 Commonwealth Blvd.
Alexandria, VA 22304
703.848.8800
www.wdcpartners.com

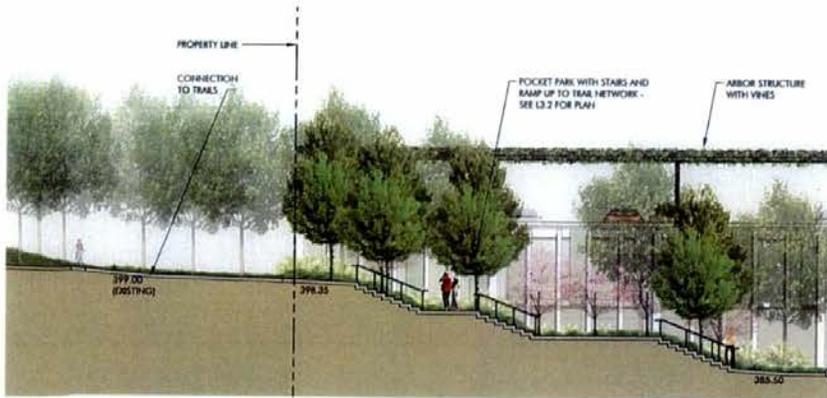
Cityline PARTNERS
1000 Commonwealth Blvd.
Alexandria, VA 22304
703.848.8800
www.citylinepartners.com

SITE SECTION - BLOCK C
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011-145-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	DATE	BY	CHKD
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02 BLOCK D - HOTEL SECTION ELEVATION (ENLARGEMENTS)
SCALE: 1/8" = 1'-0"



01 BLOCK D - HOTEL SECTION ELEVATION
SCALE: 1/8" = 1'-0"

Bowman
Bowman Consulting Group, LLC
1000 North 17th Street, Suite 200
Chesapeake, Virginia 23060
Phone: 757.533.1200
Fax: 757.533.1202
www.bowmanconsulting.com

PAKELERDORRIGUEZ, INC.
1000 North 17th Street, Suite 200
Chesapeake, VA 23060
Phone: 757.533.1200
Fax: 757.533.1202
www.pakelerdorriguez.com

WDC
1000 North 17th Street, Suite 200
Chesapeake, VA 23060
Phone: 757.533.1200
Fax: 757.533.1202
www.wdc.com

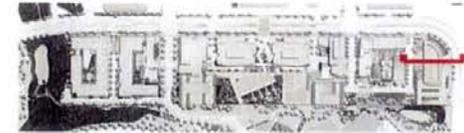
Cityline PARTNERS
A Division of
Cityline Properties, LLC
1000 North 17th Street, Suite 200
Chesapeake, VA 23060
Phone: 757.533.1200
Fax: 757.533.1202
www.citylineproperties.com

SITE SECTION - BLOCK 'D'
ARBOR ROW
CONCEPTUAL DEVELOPMENT PLAN 2011 PR-025
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

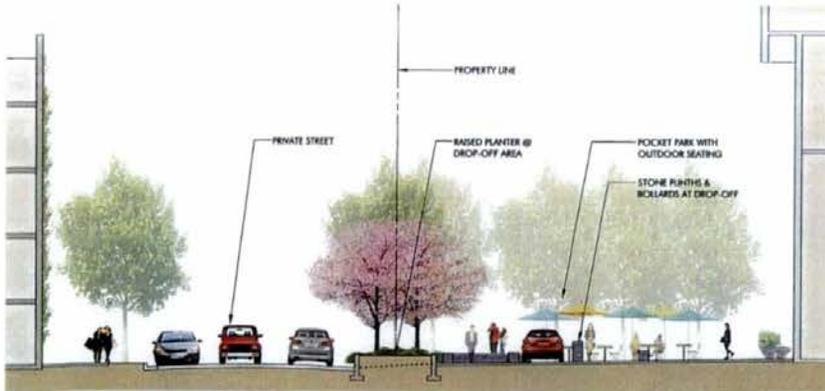
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THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

SITE SECTIONS PRESENTED ON THIS SHEET ARE PROVIDED TO AID IN THE UNDERSTANDING OF GRADE CHANGE ACROSS THE SUBJECT PROPERTY AND THE RELATIONSHIP OF PROPOSED BUILDINGS AND OTHER USES. BUILDING DESIGN AND THE FINAL GRADING ARE SUBJECT TO CHANGE WITH FINAL ENGINEERING AND ARCHITECTURAL DESIGN.

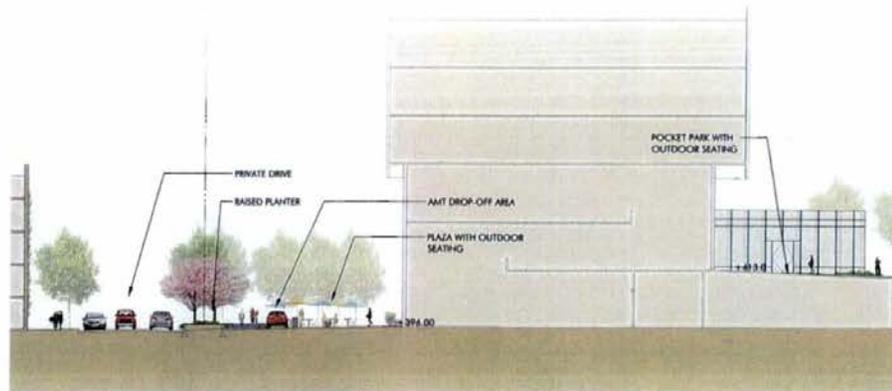


REFERENCE PLAN



02 BLOCK E & F - PRIVATE STREET SECTION

SCALE: 1/8" = 1'-0"



03 BLOCK F - AMT BUILDING SECTION ELEVATION

SCALE: 1/16" = 1'-0"



01 BLOCK F - EAST ELEVATION

SCALE: 1/16" = 1'-0"

Bowman
 CONSULTANTS
 1400 Parkwood Drive, Suite 100
 Raleigh, NC 27610
 Phone: (919) 487-1000
 Fax: (919) 487-1001
 www.bowmanconsultants.com

PAUL BODDICOZZI, INC.
 301 North Cedar St., 4020
 Raleigh, NC 27614
 Phone: (919) 877-1000
 Fax: (919) 877-1001
 www.paulboddicozzi.com

WDC
 1000 Lakeside Ave. S.W.
 Atlanta, GA 30334
 Phone: (404) 525-8800
 Fax: (404) 525-8801
 www.wdc.com

Cityline
 PARTNERS
 A Sustainable Design/Build Firm
 2007 Four Forks Center Parkway

SITE SECTION - BLOCK F
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
 PROVIDENCE DISTRICT - FAYETTE COUNTY, VIRGINIA

DATE	DESCRIPTION
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SHEET L4.7

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Bowman
 Consulting Group, LLC
 101 North Union St., 4025
 Charlottesville, Virginia 22904
 Phone: (703) 444-8888
 Fax: (703) 444-8070
 www.bowmanconsulting.com

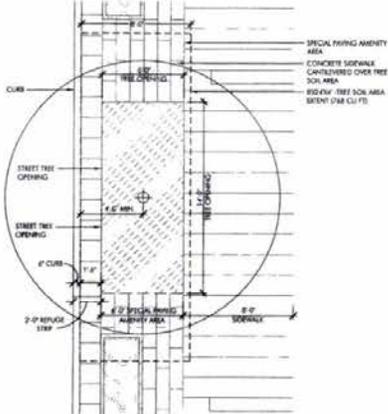
PARKER/DONIGUEZ INC.
 101 North Union St., 4025
 Charlottesville, Virginia 22904
 Phone: (703) 444-8888
 Fax: (703) 444-8070
 www.parkerdoniguez.com

WDC PARTNERS
 A MEMBERSHIP OF
 Cityline PARTNERS
 617 West E Street, Charlottesville, VA

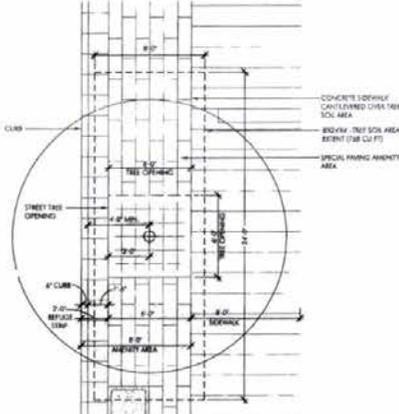
Cityline
 PARTNERS
 A MEMBERSHIP OF
 Cityline PARTNERS
 617 West E Street, Charlottesville, VA

PLANTING DETAILS AND SCHEDULE
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
 PROVIDENCE DISTRICT - FAYETTE COUNTY, VIRGINIA

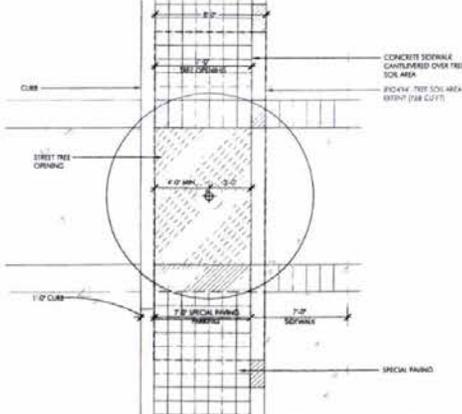
DATE	DESCRIPTION
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DATE	DESCRIPTION
SCALE	IN VARIOUS
JOB No.	
DATE	APRIL 26, 2011
FILE No.	7303-07-001
SHEET	L4.9



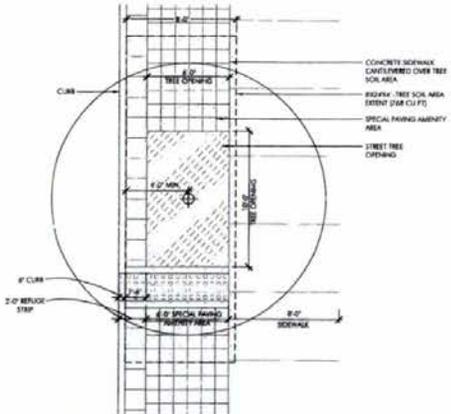
01 WESTPARK DR - TYP PL PLAN DETAIL @ REFUGE STRIP
 SCALE: 1/2"=1'-0"



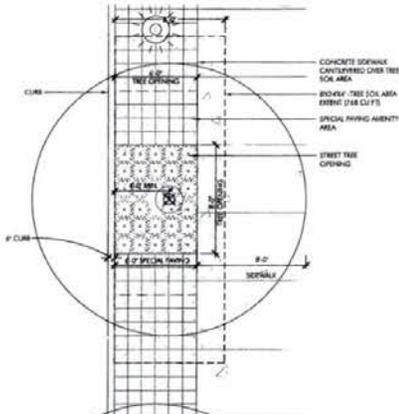
02 WESTPARK DR - TYP PL PLAN DTL @ REFUGE STRIP W/ GRATE
 SCALE: 1/2"=1'-0"



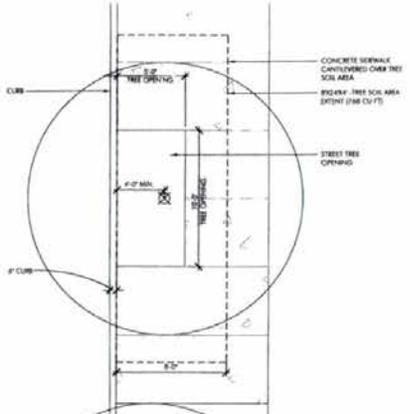
03 PRIVATE STREET - TYP PL PLAN DETAIL @ CURB
 SCALE: 1/2"=1'-0"



04 WESTBRANCH DR - TYP PL PLAN DETAIL @ CURB
 SCALE: 1/2"=1'-0"



05 JONES BRANCH DR - TYP PL PLAN DETAIL @ CURB
 SCALE: 1/2"=1'-0"



06 PRIVATE STREET - TYP PL PLAN DETAIL @ CURB
 SCALE: 1/2"=1'-0"

LANDSCAPE COMPUTATIONS - ARBOR ROW - OVERALL CDP

13-201: INTERIOR PARKING LOT LANDSCAPE CALCULATIONS

Total Parking Area (garage): 93,300 see CDP L4.8 for
 3% Forest Required 4,785 preliminary calculations

Provided: Processed Covered Areas w/ Views 21,200

13-202: PERIPHERAL PARKING LOT LANDSCAPE CALCULATIONS

Along-grade parking structures adjacent to public ROW (L.F.) 258 see CDP L4.8 for
 One (1) tree per fifty (50) feet required 8 preliminary calculations

Trees provided in landscape w/tp, rain garden or streetcure 15

13-203: TRANSITIONAL SCREENING AND BARRIERS

Property Facing District: PFC
 Adjacent Zoning District: I.B. C-7, RDC, PFC/C

Transitional Screening and Barriers are Not Required

13-401: TREE COVER CALCULATIONS

Table 12.12 10 Year Tree Canopy Calculation Worksheet

Item	Total	Reference
A. Tree Preservation Target and Statement		
Place the Tree Preservation Target calculations and statement A1 Item providing the 10-year tree canopy calculations		
see § 12-0508.2 for list of required elements and worksheets		
B. Tree Canopy Requirement		
B1 Identify gross site area	641,385 § 12-0511.1A	
B2 Subtract area dedicated to roads, park, road, and (b) other) way of easements	13,430 § 12-0511.1B	
B3 Adjusted Gross Site Area (B1 - B2)	627,955	
B4 Identify site's zoning and/or use	PFC	
B5 Percentage of 10-year Tree Canopy Required	15% § 12-0510.1 and Table 12.4	
B6 Area of 10-year Tree Canopy Requirements required?	94,193	
B7 Modification of 10-year tree canopy requirements requested? If B6 is yes, this for plan sheet where modification request is	No Yes or No	
B8	located	Sheet number
C. Tree Preservation		
C1 Tree Preservation Target Area	0	
C2 Total canopy area meeting standards of § 12-0508	0	
C3 C2 x 1.26	0	
C4 Total canopy area provided by impact or visible forest or wooded areas	0	
C5 C4 x 1.5	0	
C6 Total of canopy area provided by "historic", "mature", "specimen", or "other" trees	0	
C7 OR x 1.5 to 3.0	0	
C8 Canopy area of trees within Resource Protection Area and 100' year buffers	21,708	
C9 CR 9.1.0	21,708	
C10 Total of C3, C5, C7 and C9	21,708	
D. Tree Planting		
D1 Area of canopy to be met through tree planting (B7-C10)	92,485	
D2 Area of canopy planted for air quality benefits § 12-0510.4B(1)	0	
D3 Area of canopy planted for energy conservation § 12-0510.4B(2)	0	
D4 Area of canopy planted for water quality benefits § 12-0510.4B(3)	0	
D5 Area of canopy planted for wildlife benefits § 12-0510.4B(4)	0	
D6 Area of canopy provided by native trees § 12-0510.4B(5)	0	
D7 Area of canopy provided by improved utilities and activities § 12-0510.4B(6)	0	
D8 Area of canopy provided through tree savings - § 12.10 § 12-0510.4D(1)	0	
D9 Area of canopy provided through native shrubs - § 12.10 Met as required 33% of D14	0	
D10 Part of D14 represented by D 15	0	
D11 Total of canopy area provided through tree planting Is an offset planting plan required?	92,485 see CDP 04.4.8 No Yes or No	
D12 Canopy area requested to be provided through offset planting or tree bank or tree fund?	0	
D13 tree fund	0	
D14 Amount to be deposited into the Tree Preservation and Planting Fund	0	
E. Total of 10-year Tree Canopy Provided		
E1 Total of Canopy Provided through tree preservation (C10)	21,708	
E2 Total of canopy area provided through tree planting (D11)	92,485	
E3 Total of canopy area provided through offset planting (D12)	0	
Total of E1 through E3		
E4 Total of 10-year Tree Canopy Provided = (E1+E2+E3)	114,193	see required by B7

01 LANDSCAPE COMPUTATIONS
 SCALE: NTS

- LANDSCAPE NOTES**
1. THE PROPOSED LANDSCAPE WILL BE USED TO MEET THE MINIMUM TREE COVER REQUIREMENTS. LOCATIONS, SPECIES AND QUANTITIES MAY BE ADJUSTED WITH FINAL DESIGN.
 2. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED AT SITE PLAN.
 3. ALL STREET LEVEL TREES ARE PLANTED ON GRADE UNLESS OTHERWISE NOTED.

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

Arbor Row - Parking Garage Preliminary Landscape Calculation

Block	Garage Parking Area (SF)	Required 3% Coverage (1)	Arbor Coverage Provided (2)	% Coverage Provided (3)
A	0	0	0	0
B	20,800	2,700	8,500	27%
C	7,900	300	1,300	23%
D	21,800	1,000	5,000	23%
E	6,800	200	0	0
F	23,500	1,175	5,000	21%

Notes:
 (3) Landscape coverage required and provided is subject to change based on final layout of surface area of parking garages, but in no case shall provided coverage be less than the required 3%. Final required and provided coverage calculations shall be determined with final site and landscape plan submission.

ARBOR ROW OVERALL CDP - PRELIMINARY PLANTING LIST & CANOPY COVERAGE

KEY	BOTANICAL NAME	COMMON NAME	QTY.	STOCK SIZE	STOCK TYPE	10-YR TREE CANOPY FT ²	TREE CANOPY SUB TOTAL FT ²	REMARKS
Category I Deciduous Trees								
D1	Cornus sericea	Flowering Dogwood	8	2 cal.	BBB	72	600	single leader
Category II Deciduous Trees								
AD	Acer pensilvanicum	Red Maple	40	2 cal.	BBB	120	5,000	multi-trunk - 3 stems minimum, full branching
AL	Prunella serotina	Black Cherry	51	2 cal.	BBB	100	2,700	multi-trunk - 2 stems minimum, full branching
OB	Cornus florida	Flowering Dogwood	36	2 cal.	BBB	100	1,000	single leader
AC	Hydrangea arborescens	Hydrangea	43	2 cal.	BBB	100	1,300	multi-trunk - 3 stems minimum, full branching
Category III Deciduous Trees								
BA	Quercus prinus	White Oak	30	2 cal.	BBB	175	2,300	multi-trunk - 3 stems minimum, full branching
GT	Quercus macrocarpa	Red Oak	20	2 cal.	BBB	175	3,300	single leader, full branching
HT	Quercus alba	White Oak	9	2 cal.	BBB	175	1,575	single leader, full branching, ornamental
Category IV Deciduous Trees								
AA	Acer rubrum	Red Maple	36	2 cal.	BBB	200	9,500	single leader, full branching, ornamental
PA	Prunella americana	Black Cherry	44	2 cal.	BBB	200	11,000	single leader, full branching, ornamental
QA	Quercus macrocarpa	Red Oak	29	2 cal.	BBB	200	7,550	single leader, full branching, ornamental
QP	Quercus prinus	White Oak	73	2 cal.	BBB	200	15,250	single leader, full branching, ornamental
QA	Quercus alba	White Oak	42	2 cal.	BBB	200	10,500	single leader, full branching, ornamental
Category V Evergreen Trees								
BT	Thuja occidentalis	Eastern White Pine	17	6-10 cal.	BBB	50	1,350	multi-trunk - 3 stems minimum, full branching
TOTAL 10-YEAR TREE CANOPY PROVIDED BY PLANTING							81,975	ft ²
EXISTING SITE AREA							641,385	ft ²
TOTAL AREA OF A.O.W. DEDICATION							23,430	ft ²
ADVISORY ONCHS SITE AREA							807,895	ft ²
MIN. COVERAGE REQUIREMENT =							94,193	ft ²

02 PRELIMINARY TREE PLANTING LIST AND CANOPY COVERAGE
 SCALE: NTS

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 Fax: 703.444.8200
 www.bowman-cornell.com

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 Norfolk, VA 23510

LANDSCAPE NOTES

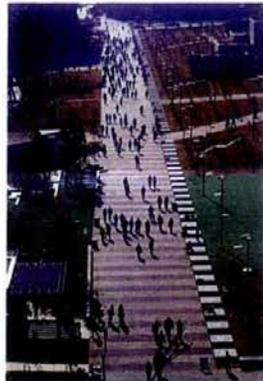
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 0011-PR-023
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS

01/22/21	PRELIMINARY CONCEPT
02/23/21	PRELIMINARY CONCEPT
03/24/21	PRELIMINARY CONCEPT
04/25/21	PRELIMINARY CONCEPT
05/26/21	PRELIMINARY CONCEPT
06/27/21	PRELIMINARY CONCEPT
07/28/21	PRELIMINARY CONCEPT
08/29/21	PRELIMINARY CONCEPT
09/30/21	PRELIMINARY CONCEPT
10/31/21	PRELIMINARY CONCEPT
11/01/21	PRELIMINARY CONCEPT
12/02/21	PRELIMINARY CONCEPT

DATE: 04/26/21
 SCALE: NTS
 JOB No.
 DATE: APRIL 26, 2011
 FILE No. 7803-07-001

SHEET **L4.9A**



THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

FOR INFORMATION ONLY

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Cityline PARTNERS
 A Division of
 ECU Real Estate Capital Partners

CONCEPT IMAGERY
ARBOR ROW
 CONCEPTUAL DEVELOPMENT PLAN 2011-PR-023
 PROVIDENCE DISTRICT - FANFAK COUNTY, VIRGINIA

DATE	DESCRIPTION
07/20/11	PER COUNTY COMMENTS
12/01/11	PER COUNTY COMMENTS
03/14/12	PER COUNTY COMMENTS
05/01/12	PER COUNTY COMMENTS
07/23/12	PER COUNTY COMMENTS
08/17/12	PER COUNTY COMMENTS
09/14/12	PER COUNTY COMMENTS
SCALE	DESCRIPTION
SCALE	H. NTS
JOB No.	
DATE	APRIL 06, 2011
PRICE No.	7403-07-001
SHEET	L5.2

RECEIVED
Department of Planning & Zoning

OCT 05 2012

Zoning Evaluation Division

ARBOR ROW - BLOCK A

PROVIDENCE DISTRICT FAIRFAX COUNTY, VIRGINIA

FINAL DEVELOPMENT PLAN

FDP 2011-PR-023-1

(CONCURRENT RZ/CDP 2011-PR-023)



CIVIL SHEET INDEX

C1.0	COVER SHEET
C2.0	GENERAL NOTES AND CORRESPONDANCE
C2.1	TABULATIONS AND MARKERS
C3.0	CONTEXT PLAN AND VICINITY MAP
C4.0	OVERALL DEVELOPMENT PLAN
C5.0	EXISTING CONCRETING PLAN
C6.0	FINAL DEVELOPMENT PLAN
C6.1	PHASING EXHIBIT
C7.0	WESTPARK DRIVE ROADWAY STRIPING AND CROSS SECTIONS
C7.1	WESTBRANCH DRIVE ROADWAY STRIPING AND CROSS SECTIONS
C7.2	FIRE VEHICULAR ACCESS EXHIBIT
C8.0	ADEQUATE CUTOFF AND SWM CHECKLIST
C8.0.1	ADEQUATE CUTOFF AND SWM CHECKLIST
C8.1	SWM & BMP NARRATIVE
C8.2	SWM & BMP NARRATIVE
C8.0	CONCEPTUAL SWM PLAN
C8.1	BLOCK A-1 SWM COMPUTATIONS
C8.2	BLOCK A-1 SWM COMPUTATIONS
C8.3	BLOCK A-2 SWM COMPUTATIONS
C8.4	BLOCK A-2 SWM COMPUTATIONS
C10.0	LOW IMPACT DEVELOPMENT CONCEPT PLAN
C11.0	EXISTING VEGETATION MAP

ARCHITECTURAL SHEET INDEX

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A-020	SHADOW STUDY
A-101	LEVEL B2 FLOOR PLAN
A-102	LEVEL B1 FLOOR PLAN
A-103	LEVEL 1 FLOOR PLAN
A-104	LEVEL 2 FLOOR PLAN
A-105	ROOF PLAN
A-201	EAST WEST SECTIONS
A-202	NORTH SOUTH SECTIONS
A-301	SITE PERSPECTIVES
A-302	SITE PERSPECTIVES
A-303	SITE PERSPECTIVES
A-401	BUILDING ELEVATIONS
A-402	BUILDING ELEVATIONS
A-403	BUILDING ELEVATIONS
A-404	ENLARGED BUILDING ELEVATIONS

LANDSCAPE ARCHITECTURAL SHEET INDEX

L0.01	URBAN PARKS PLAN
L0.02	REFERENCE LANDSCAPE PLAN
L0.03	ILLUSTRATIVE PLAN
L1.01	LANDSCAPE PLAN - STREET LEVEL A-1
L1.02	LANDSCAPE PLAN - STREET LEVEL A-2
L1.03	LANDSCAPE PLAN - ROOF TERRACES
L2.01	SITE SECTIONS - BLOCK 'A'
L2.02	STREET SECTIONS
L3.01	PLANTING DETAILS AND SCHEDULE
L3.02	STREETSCAPE ELEMENTS
L3.03	SUSTAINABILITY STRATEGIES
48	TOTAL SHEETS

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LANDSCAPE ARCHITECTURE:
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ATTORNEY'S:
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1301 PRINCIPLE DRIVE
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7.703.714.7400

OCTOBER 5, 2012
AUGUST 20, 2012
JULY 23, 2012
JUNE 20, 2012
APRIL 20, 2012
DECEMBER 7, 2011
SHEET C1.0

NOTES:

THE SUBJECT PROPERTY OF THIS APPLICATION IS DESCRIBED AS FOLLOWS:

TAX MAP #	OWNER	DEED BOOK / PAGE	ACREAGE
029-4-173-000	Fairfax 8503 Westpark LLC	21145/0050	5.29 AC
029-4 (Westpark Drive ROW) Board of Supervisors Fairfax County Virginia			0.04 AC

AMONG THE LAND RECORDS OF FAIRFAX COUNTY, VIRGINIA, A STATEMENT THAT CONFIRMS THE OWNERSHIP OF THIS SUBJECT PROPERTY AND THE NATURE OF THE APPLICANT'S/CO-APPLICANT'S INTEREST IN SAME IS PROVIDED IN AN AFFIDAVIT SUBMITTED SEPARATELY.

- THE TOTAL APPLICATION AREA IS APPROXIMATELY 5.47 ACRES (INCLUDES ALL OF LOT 10 AND THE AREA OF WESTPARK DRIVE VACATED, FORMERLY ZONED C-3 (OFFICE), AND CONSTITUTES "BLOCK A" OF THE PROPOSED ARBOR ROW DEVELOPMENT.
- THE SUBJECT PROPERTY IS PART OF CONCURRENT REZONING APPLICATION #Z/CDP 2011-PP-023 WITH A PROPOSED ZONING CATEGORY OF PFC, AND IS INCLUDED AS PART OF PENDING APPLICATION PCA-88-D-005-7.
- THE SUBJECT PROPERTY LIES WITHIN "SUBAREA TWO SOUTH WEST PARK" OF THE NORTH TYSONS CENTRAL 123 SUBDISTRICT OF THE TYSONS CORNER URBAN CENTER PLAN. THE PROPOSED DEVELOPMENT IS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE COMPREHENSIVE PLAN AS DESCRIBED IN THE APPLICANT'S/CO-APPLICANT'S STATEMENT OF JUSTIFICATION.
- THE TOPOGRAPHIC INFORMATION ASSOCIATED WITH LOT 10 IS AT A CONTOUR INTERVAL OF TWO (2) FEET BASED ON FIELD RUN SURVEY COMPLETED BY BOWMAN CONSULTING IN 2011.
- THE BOUNDARY INFORMATION ASSOCIATED WITH LOT 10 IS FROM A FIELD RUN SURVEY PREPARED BY BOWMAN CONSULTING GROUP COMPLETED IN APRIL 2010.
- THERE IS ONE EXISTING OFFICE BUILDING OF APPROXIMATELY 74,548 S.F. TOTAL GROSS FLOOR AREA AND ASSOCIATED SURFACE PARKING LOTS ON THE SUBJECT PROPERTY.
- THE COUNTY TRAILS MAP IDENTIFIES NO PLANNED TRAILS ALONG THE FRONTAGE OF THE SUBJECT PROPERTY.
- THE PROPERTY IS LOCATED IN THE BLUE PLAINS/SCOTT'S RUN [-1] SANITARY SEWER DISTRICT WATERSHED, AND THE SCOTT'S RUN STORM DRAINAGE WATERSHED.
- A PORTION OF THE LOT 10 APPLICATION AREA LIES WITHIN A RESOURCE PROTECTION AREA (RPA) (PER APPROVED PLAN #000312-RPA-002-1) WHICH ALSO INCLUDES AREA WITHIN A RECORDED FLOODPLAIN EASEMENT AS SET FORTH IN THE PROFFERS. MINOR IMPROVEMENTS PROPOSED WITHIN THIS RPA WILL BE PROCESSED FOR APPROVAL THROUGH PERMITS UNDER SEPARATE APPLICATIONS.
- THERE ARE NO KNOWN UTILITY EASEMENTS OF 25 FEET OR GREATER IN WIDTH ON THE SITE.
- THERE ARE NO AREAS CONTAINING SCENIC ASSETS. THE RPA ON SITE MAY BE CONSIDERED A NATURAL FEATURE DESERVING OF PROTECTION OR PRESERVATION TO THE EXTENT POSSIBLE WITH ALLOCABLE IMPROVEMENTS AS SHOWN WITHIN THIS FDP.
- THERE ARE NO KNOWN GRAVES OR BURIAL SITES ON THE SUBJECT PROPERTY.
- TO THE BEST OF OUR KNOWLEDGE THERE WILL BE NO ADVERSE IMPACTS ON ADJACENT AND NEIGHBORING PROPERTIES.
- ALL NECESSARY PUBLIC UTILITIES ARE READILY ACCESSIBLE TO THE SITE OR WILL BE EXTENDED/RELOCATED OR IMPROVED BY THE APPLICANT'S/CO-APPLICANT'S OR UTILITY COMPANY AS MAY BE APPROPRIATE FOR THE PROPOSED DEVELOPMENT. EXISTING UTILITIES SHOWN HEREON WERE OBTAINED FROM FIELD OBSERVATION/SURVEY AVAILABLE RECORDS, AND COUNTY RECORD GIS INFORMATION.
- TO THE BEST OF OUR KNOWLEDGE THE PROPOSED DEVELOPMENT CONFORMS TO THE PROVISIONS OF ALL APPLICABLE ORDINANCES, REGULATIONS AND ADOPTED STANDARDS, WITH THE EXCEPTIONS LISTED HEREIN.
- STORM WATER MANAGEMENT (SWM) AND BEST MANAGEMENT PRACTICES (BMP) REQUIREMENTS FOR THIS SITE ARE PROPOSED THROUGH THE USE OF BOTH EXISTING OFF-SITE SWM/BMP SURFACE PONDING AND ON-SITE UNDERGROUND FACILITY AS CONCEPTUALLY SHOWN ON THE FDP. APPLICANT'S/CO-APPLICANT'S RESERVES THE RIGHT TO PROVIDE TEMPORARY STORM WATER MANAGEMENT AND BMP FACILITIES (I.E. PONDING, INFILTRATION SYSTEMS, UNDERGROUND VAULTS ETC) IF THE DEVELOPMENT IS TO OCCUR IN PHASES. REFER TO "SWM DEVIATION NARRATIVE" ON SHEET C-8.2.
- SITE AMENITIES, FEATURES AND FURNISHINGS REPRESENTED HEREON ARE CONCEPTUAL AND, AS SUCH, ARE INTENDED TO REFLECT THE GENERAL THEME AND CHARACTER OF THE PROPOSED DEVELOPMENT. FINAL SELECTION MAY VARY AT THE TIME OF SITE PLAN, BUT WILL BE CONSISTENT WITH THE QUALITY OF THE DESIGN REPRESENTED HEREON. ADDITIONAL SITE AMENITIES AND FEATURES SUCH AS PLANTINGS, GAZEBOS, BENCHES, OTHER SEATING AREAS, WALKWAYS, TRELLEDES, WATER FOUNTAINS OR SPECIAL FEATURES, PUBLIC ART, SIGNS, WALLS, LIGHTS, UTILITY STRUCTURES AND SIMILAR FEATURES NOT REPRESENTED HEREON MAY BE PROVIDED AS LONG AS THE RESULTANT DEVELOPMENT IS IN SUBSTANTIAL CONFORMANCE WITH THE QUALITY REPRESENTED ON THE GRAPHICS.
- THE DEVELOPMENT SCHEDULE FOR THIS PROJECT IS DEPENDENT ON MARKET CONDITIONS AND THE SECURING OF ALL REQUIRED APPROVALS AND PERMITS. IT IS ANTICIPATED AT THIS TIME THAT THE PROPOSED BUILDING A-3 WILL BE CONSTRUCTED FIRST, WITH ASSOCIATED FRONTAGE IMPROVEMENTS ETC., AND PROPOSED BUILDING A-1 WOULD BE CONSTRUCTED SOMETIME THEREAFTER.
- TO THE BEST OF OUR KNOWLEDGE THE PROPOSED DEVELOPMENT IS IN ACCORDANCE WITH THE DEVELOPMENT CRITERIA OF THE COMPREHENSIVE PLAN, PARTICULARLY THROUGH APPROPRIATE SITE DESIGN, SIGNIFICANT LANDSCAPING, PROVISION OF SITE AMENITIES AND THE DESIGN OF AN APPROPRIATE STREETScape THAT COMPLEMENTS THE EXISTING COMMUNITY.
- TO THE BEST OF OUR KNOWLEDGE NONE OF THE USES REPRESENTED ON THIS PLAN WILL GENERATE, UTILIZE, STORE, LEAK AND/OR DISPOSE OF ANY HAZARDOUS OR TOXIC SUBSTANCES AS SET FORTH IN TITLE 40, CODE OF FEDERAL REGULATIONS PART 118.6, 302.4 AND 303; ANY HAZARDOUS WASTE AS SET FORTH IN COMMONWEALTH OF VIRGINIA DEPARTMENT OF WASTE MANAGEMENT VR 572-10-1 - VIRGINIA HAZARDOUS WASTE MANAGEMENT REGULATIONS; AND/OR ANY PETROLEUM PRODUCTS DEFINED IN TITLE 40, CODE OF FEDERAL REGULATIONS PART 280.
- A GRAPHIC DEPICTION OF THE ANGLE OF BULK PLANE FOR THE PROPOSED DEVELOPMENT SITE IS NOT REQUIRED AS THIS DEVELOPMENT IS NOT LOCATED NEAR THE PERIMETER OF THE TYSONS URBAN CENTER AS DESCRIBED IN SECTION 16-102, OF THE ZONING ORDINANCE.
- PARKING WILL BE PROVIDED IN A COMBINATION OF ABOVE AND BELOW GRADE PARKING STRUCTURES AND SURFACE (ROADWAY) SPACES AND IN ACCORDANCE WITH THE PROVISIONS OF ARTICLE 8-509 OF THE ZONING ORDINANCE. THE APPLICANT'S/CO-APPLICANT'S RESERVES THE RIGHT TO PROVIDE MORE OR LESS THAN THE NUMBER OF PARKING SPACES PRESENTED HEREON PROVIDED THAT THE AMOUNT OF PARKING SPACES WILL BE SUFFICIENT TO COMPLY WITH ARTICLE 8-509 AND ARTICLE 11, PART 1 OF THE ZONING ORDINANCE. PARKING PROVIDED WITHIN THE GARAGE STRUCTURE INCLUDES TANDEN AND VALET SPACES. THE NUMBER OF ABOVE GRADE STORES WILL NOT INCREASE FOR PARKING STRUCTURES FROM THAT SHOWN ON THE FDP.
- ARCHITECTURAL DESIGN AND LANDSCAPE FEATURES SHOWN ARE SUBJECT TO MODIFICATIONS, PROVIDED THAT THE GENERAL DESIGN STRATEGY, QUALITY AND CHARACTERISTICS OF THE PROJECT ARE MAINTAINED AND IN SUBSTANTIAL CONFORMANCE WITH THE COP. THE EXIST. LOCATION, SHAPE AND SIZE OF THE PROPOSED BUILDINGS, WINDROWS, BALCONIES, AND PARKING STRUCTURE(S) SHOWN ON THE GRAPHIC ARE SUBJECT TO ADJUSTMENT AND REFINEMENT WITH FINAL ENGINEERING AND ARCHITECTURAL DESIGN SO LONG AS THEY REMAIN IN SUBSTANTIAL CONFORMANCE WITH THE FDP.
- DEDICATION OF A PORTION OF THE APPLICATION AREA IS PROPOSED FOR A PORTION OF WESTPARK DRIVE. APPLICANT'S/CO-APPLICANT RESERVES THE RIGHT TO UTILIZE AREA OF DEDICATION IN THE CALCULATION OF PROPOSED DENSITY AND F.A.S. PER ARTICLE 2-308-4 OF THE ZONING ORDINANCE.
- PROPOSED SIGNAGE WILL BE PROVIDED IN ACCORDANCE WITH THE ZONING ORDINANCE OR A COMPREHENSIVE SIGN PLAN AS MAY BE APPROVED BY THE PLANNING COMMISSION.
- TRANSITIONAL SCREENING IS NOT REQUIRED AS SET FORTH IN ARTICLE 6-510.C OF THE ZONING ORDINANCE.
- APPLICANT'S/CO-APPLICANT'S RESERVE THE RIGHT TO UTILIZE EXISTING SURFACE PARKING FOR INTERIM CONDITION IN AREAS RESERVED FOR FUTURE DEVELOPMENT, SEE PROFFERS.
- THE SUBJECT PROPERTY MAY BE SUBDIVIDED IN THE FUTURE FOR THE PURPOSE OF SALE, PHASING, OR JOINT VENTURE. ANY PROPOSED SUBDIVISION SHOWN ON THE FDP MAY BE MODIFIED ADMINISTRATIVELY BY THE DIRECTOR OF DEEDS WITHOUT REQUIRING MODIFICATION OF THE FDP.
- PROPOSED ROADWAY IMPROVEMENTS (ENTRANCES, CURBING, MEDIAN ETC) MAY REQUIRE EXCEPTION FROM VDOT ACCESS MANAGEMENT DESIGN STANDARDS AND P.F.M. (AS MAY BE DETERMINED AT FINAL SITE PLAN APPLICATION) IN ORDER TO CONFORM WITH THE TYSONS TRANSPORTATION DESIGN STANDARDS FOR THE TYSONS URBAN CENTER. APPROVAL OF SUCH EXCEPTIONS SHALL NOT REQUIRE AMENDMENT TO THE FDP.

NOTES (CONTINUED):

- INDIVIDUAL BUILDING HEIGHTS AND NUMBER OF FLOORS/STORES SHOWN ARE CONCEPTUAL AND MAY BE CHANGED. PROVIDED THE PROPOSED MAXIMUM BUILDING HEIGHT IS NOT EXCEEDED, AND ARE IN SUBSTANTIAL CONFORMANCE WITH THE FDP.
- PURSUANT TO SECTION 6-502 OF THE ZONING ORDINANCE, IN ADDITION TO RESIDENTIAL, OFFICE, HOTEL, RETAIL AND OTHER USES IDENTIFIED ON THE SHEET C-2.1 TABULATIONS, THE FOLLOWING ADDITIONAL USES SHALL BE PERMITTED WITHIN ARBOR ROW WITHOUT REQUIRING AN AMENDMENT TO THE COP AND LISTED ON INDIVIDUAL FOPs, INCLUDING BUT NOT LIMITED TO: BUSINESS USES: AT-RAIL BUSINESS SERVICE AND SUPER SERVICE ESTABLISHMENTS, QUICK SERVICE FOOD STORES, FAST FOOD RESTAURANTS, HEALTH CLUBS and similar COMMERCIAL RECREATIONAL USES, COMMUNITY USES, EATING ESTABLISHMENTS, FINANCIAL INSTITUTIONS, GARMENT CLEANING ESTABLISHMENTS, OFFICES, PERSONAL SERVICE ESTABLISHMENTS, PUBLIC and OTHER PUBLIC USES (INCLUDING A CONFERENCE CENTER OPERATED BY A NON-PROFIT ORGANIZATION, AS PERMITTED UNDER THE COUNTY ZONING ORDINANCE), RETAIL SALES ESTABLISHMENTS AND SIMILAR USES. BANK-OR FINANCIAL INSTITUTIONS AND CHILD CARE CENTER SHALL BE PERMITTED, SUBJECT TO APPROVAL AS SHOWN ON A FOP ON DE.
- PRIVATE ACCESS ROADS SHOWN ON THE FDP SHALL NOT BE CONSIDERED "STREETS" AND, AS SHOWN, DEVIATE FROM THE TYSONS TRANSPORTATION DESIGN STANDARDS AND STREETScape RECOMMENDATIONS IN THE COMPREHENSIVE PLAN.
- SATISFACTION OF THE MINIMUM PUBLICLY-ACCESSIBLE PARK REQUIREMENT SHALL BE CALCULATED ON THE ENTIRETY OF "ARBOR ROW" (OVER BLOCKS A THROUGH F) AND SHALL NOT BE REQUIRED TO BE SATISFIED ON EACH INDIVIDUAL BLOCK.
- ONE ELECTRIC CHARGING STATION SERVING TWO SPACES SHALL BE PROVIDED WITHIN THE GARAGE.

RESOURCE PROTECTION AREA EXEMPTIONS:

THE REDEVELOPMENT ACTIVITIES ON BLOCK 'A' REQUIRE ALLOWABLE EXEMPTIONS FOR MINOR ENCROACHMENTS TO THE RPA (MAPPED ALONG THE OFFSITE POND 'D') AS REQUIRED FOR FRONTAGE IMPROVEMENTS ALONG WESTPARK DRIVE, THE RELOCATION OF AN EXISTING ASPHALT TRAIL, AND CONSTRUCTION OF TWO STORM SEWER OUTFALLS. PROPOSED FRONTAGE IMPROVEMENTS ALONG WESTPARK DRIVE, WHICH INCLUDE TOWN LANDS, STORM DRAIN IMPROVEMENTS AND OTHER STREETScape IMPROVEMENTS ALONG THE PUBLIC ROAD, ARE CONSIDERED EXEMPT FROM THE PROVISIONS OF THE CHESAPEAKE BAY PRESERVATION ORDINANCE (CBPO) UNDER SECTION 118-5-3(A). THE ASPHALT TRAIL RELOCATION IS ALSO CONSIDERED AN EXEMPTION WITHIN THE RPA UNDER SECTION 118-5-3(A) OF THE CBPO, PROVIDED THAT IT COMPLES WITH ITEMS (1) THROUGH (3) OF THAT SUBSECTION, INCLUDING APPROVAL OF A WRITTEN REQUEST FOR THE EXEMPTION BY THE DIRECTOR OF CPDES. THE TWO STORM SEWER OUTFALLS THAT WILL CONVEY STORMWATER FROM WESTPARK DRIVE AND BLOCK 'A' TOWARDS THE OFFSITE POND 'D' ARE CONSIDERED "MINOR-DEPENDENT DEVELOPMENT" WHICH IS AN ALLOWED USE OR DEVELOPMENT WITHIN THE RPA UNDER SECTION 118-2-1(A) PROVIDED IT COMPLES WITH THE PERFORMANCE CRITERIA IN ARTICLE 2, INCLUDING SUBMISSION AND APPROVAL OF A WATER QUALITY IMPACT ASSESSMENT (WQIA). AT THE TIME OF SITE PLAN FOR BLOCK 'A-1', A WQIA WILL BE SUBMITTED IN ACCORDANCE WITH ARTICLE 4 OF THE COP FOR THE PROPOSED STORM SEWER OUTFALLS, AND WILL INCLUDE THE COMPONENTS LISTED IN SECTION 118-4-A-3(A) THROUGH (D) OF THE CBPO, INCLUDING A DESCRIPTION OF THEIR CONFORMANCE WITH APPLICABLE PERFORMANCE CRITERIA LISTED IN ARTICLE 2. THE WQIA WILL ALSO INCORPORATE THE WRITTEN REQUEST FOR APPROVAL OF THE RELOCATED TRAIL WITHIN THE RPA AS AN EXEMPTION UNDER SECTION 118-5-3(A) OF THE CBPO.

RESOURCE PROTECTION AREA NOTE:

THE LIMITS OF CLEARING AND GRADING SHOWN ALONG THE RPA BOUNDARY SHALL BE STRICTLY OBSERVED AND ENFORCED. AT THE TIME OF FINAL ENGINEERING/SITE PLAN, PHASE 1 AND 2 EROSION AND SEDIMENT (EAS) CONTROL PLANS AND ASSOCIATED EAS NARRATIVE SHALL REQUIRE THE INSTALLATION OF TREE PROTECTION FENCING WITH SIGNS AND SUPER SET FENCE ALONG THE LIMITS OF CLEARING AND GRADING THAT ABUT THE RPA BOUNDARY. THE ONLY AUTHORIZED ENCROACHMENTS INTO THE RPA ARE THOSE DEPICTED ON THIS PLAN AND SET FORTH IN THE PROFFERS, SUBJECT TO APPROVAL OF A WATER QUALITY IMPACT ASSESSMENT AND THOSE ALLOWED BY OR EXEMPT FROM THE CHESAPEAKE BAY PRESERVATION ORDINANCE (CBPO), AS APPROVED BY CPDES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS TO ENSURE THAT THE BUILDING CONSTRUCTION DOES NOT ENCRACH INTO THE RPA. ANY UNAUTHORIZED ENCROACHMENT INTO, OR DISTURBANCE OF, THE RPA IS CONSIDERED A VIOLATION OF THE CHESAPEAKE BAY PRESERVATION ORDINANCE (CBPO) AND IS SUBJECT TO THE PENALTIES OF CBPO ARTICLE 9 (VIOLATIONS AND PENALTIES).

GENERAL NOTES AND CORRESPONDENCE

ARBOR ROW - BLOCK 'A'
FINAL DEVELOPMENT PLAN 2011-PP-023-1
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	
04/20/12	PRELIM. PROP. INFO.
06/20/12	PRELIM. ENVIRONMENTAL
07/10/12	PRELIM. CONCEPT DEVELOPMENT
08/20/12	PRELIM. ENVIRONMENTAL
09/20/12	PRELIM. ENVIRONMENTAL

DATE: 12/01/2011
SCALE: 1" = 40' SCALE
JOB NO.:
DATE: December 7, 2011
FILE NO.: 7403-09-003

SHEET **C2.0**

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WAIVER / MODIFICATION REQUESTS (AS APPROVED WITH RZCDP 2011-PR-021) FOR INFORMATION:

- ZONING ORDINANCE ARTICLE 2 - GENERAL REGULATIONS**
- WAIVER/MODIFICATION OF SECTION 2-506(2) TO ALLOW FOR A PARAPET WALL, CORNICE OR SIMILAR PROJECTION TO EXCEED THE HEIGHT LIMIT ESTABLISHED BY MORE THAN THREE (3) FEET.
- ZONING ORDINANCE ARTICLE 8 - PLANNED DEVELOPMENT DISTRICT REGULATIONS**
- WAIVER OF ZONING ORDINANCE SECTION 8-502.7 REQUIRING THE DESIGNATION OF SPECIFIC OUTDOOR DINING AREAS ON THE CDP/POP, FURTHER OUTDOOR DINING MAY BE PROVIDED IN ANY AREA WHERE THE USE INCLUDES DINING ACTIVITY AND WILL BE INDICATED AT THE TIME OF FINAL SITE PLAN.
- ZONING ORDINANCE ARTICLE 10 - ACCESSORY USES, ACCESSORY SERVICE USES, AND HOME OCCUPATIONS**
- AS ALLOWED WITHIN ZONING ORDINANCE SECTION 10-104.3(E) AND G APPLICANT REQUESTS A MODIFICATION OF THE MAXIMUM FENCE HEIGHT FROM SEVEN FEET TO FOURTEEN FEET AROUND ACCESSORY USES/STRUCTURES LOCATED WITHIN THE REAR YARD FOR THOSE AREAS OF FENCING ASSOCIATED WITH THE PROPOSED SPORTS COURTS AND URBAN PLAZA AS INDICATED ON THE CDP.
- ZONING ORDINANCE ARTICLE 11 - PARKING AND LOADING**
- MODIFICATION OF ZONING ORDINANCE SECTION 11-102(1)(I) AND SECTION 6-506(1) TO ALLOW FOR TANDEM SPACES AND VALET SPACES CONTROLLED BY BUILDING MANAGEMENT FOR RESIDENTIAL AND OFFICE USES; SUCH STACKED SPACES IN ACCORDANCE WITH SECTION 11-101(1) AND 6-506(1) MAY COUNT TOWARD REQUIRED PARKING SPECIFIED IN THE ZONING ORDINANCE, AND SHALL BE PROVIDED IN ACCORDANCE WITH THE PARKING PLAN SUBMITTED WITH THIS APPLICATION.
 - MODIFICATION OF ZONING ORDINANCE SECTION 11-201 AND SECTION 11-203 FOR THE REQUIRED NUMBER OF LOADING SPACES WITHIN MULTI-FAMILY, OFFICE, AND RETAIL/PERIPHERAL USES IS REQUESTED IN FAVOR OF THOSE WHICH ARE SHOWN ON THE CDP.
 - MODIFICATION OF SECTION 11-202(A) REQUIRING MINIMUM DISTANCE OF FORTY FEET (40') OF A LOADING SPACE IN PROXIMITY TO TRAVEL BAYS OR STREETS, AS PERTAINS TO BLOCK A, TO THAT AS DEMONSTRATED ON THE CDP.
- ZONING ORDINANCE ARTICLE 13 - LANDSCAPING**
- MODIFICATION OF PERIPHERAL LANDSCAPE REQUIREMENTS SECTION 13-202-8, FOR ABOVE GRADE PARKING STRUCTURES AND INTERIM SURFACE LOTS, AS ALLOWED PER SECTION 13-202, PARA 8, TO THAT SHOWN ON THE CDP AND DESCRIBED BELOW:
 - a. FOR INTERIM SURFACE PARKING LOTS: INTERIOR LANDSCAPING WILL BE DEMONSTRATED ON SUBSEQUENT FDP APPLICATIONS AND WILL UTILIZE EXISTING VEGETATION WITHIN PARKING LOTS, TO THE EXTENT POSSIBLE.
 - b. FOR PROPOSED ABOVE GRADE PARKING STRUCTURES: INTERIOR LANDSCAPING MAY INCLUDE INNOVATIVE PLANTING DESIGN AND TECHNIQUES, INCLUDING BUT NOT LIMITED TO, OVERHEAD VEGETATIVE ARCHES.
 - c. WITHIN BLOCK T: WAIVER OF THE INTERIOR PARKING LOT LANDSCAPE REQUIREMENTS FOR THE EXPOSED PARTIAL UPPER LEVEL, AS THE ELEVATION OF THE DECK IS APPROXIMATELY TEN (10') FEET BELOW THE SUBJACENT COURTYARD AND IS SCREENED FROM VIEW OF ADJACENT PROPERTIES BY ARCHITECTURAL ELEMENTS.
 - MODIFICATION OF PERIPHERAL LANDSCAPE REQUIREMENTS SECTION 13-203-5, FOR ABOVE GRADE PARKING STRUCTURE AND INTERIM SURFACE LOTS AS ALLOWED BY SECTION 13-203, PARA 3, TO THAT SHOWN ON THE CDP AND DESCRIBED BELOW:
 - a. FOR INTERIM SURFACE PARKING LOTS: PERIPHERAL LANDSCAPING WILL BE DEMONSTRATED ON SUBSEQUENT FDP APPLICATIONS AND WILL UTILIZE EXISTING VEGETATION WITHIN PARKING LOTS, TO THE EXTENT POSSIBLE.
 - b. FOR PROPOSED ABOVE GRADE PARKING STRUCTURES: PERIPHERAL LANDSCAPING WILL BE PROVIDED USING TREES WITHIN URBAN STREETSCAPES (PER TYPICAL URBAN DESIGN GUIDELINES) WHERE GARAGES ARE ADJACENT TO STREET FRONTAGE AND BY EXISTING TOPOGRAPHIC FEATURES OR OTHER URBAN DESIGN ELEMENTS WHERE GARAGES ARE ADJACENT TO NON STREET FRONTAGE.

- ZONING ORDINANCE ARTICLE 16 - DEVELOPMENT PLANS**
- WAIVER OF ZONING ORDINANCE SECTION 16-403 REQUIRING THE SUBMISSION OF A FINAL DEVELOPMENT PLAN APPLICATION ASSOCIATED WITH THE PUBLIC ROADWAY AND INFRASTRUCTURE PHASING EXHIBIT SHOWN WITHIN THE CDP.
- ZONING ORDINANCE ARTICLE 17 - SITE PLAN**
- WAIVER OF SECTION 17-201-(3)(B) REQUIRING ADDITIONAL INTER-PARCEL ACCESS TO ADJACING PARCELS (OTHER THAN THOSE SHOWN ON THE CDP).
 - WAIVER OF SECTION 17-201-(1) REQUIRING STREETSCAPE IMPROVEMENTS WITHIN THE R.P.A. ALONG WESTPARK DRIVE NEAR THE WESTERN PORTION OF BLOCK A, AND IN RETURN, PROVISION OF CONCRETE SIDEWALK AS SHOWN ON THE CDP.
 - MODIFICATION OF SECTION 17-201-(2) AND (4) TO PROVIDE INTERIM ROAD AND TRAIL CONDITIONS ALONG THE WESTPARK DRIVE FRONTAGE OF BLOCK T (AS SHOWN ON THE CDP), AS A RESULT OF THE CONSTRUCTION OF THE 1-495 EXPRESS LANE IMPROVEMENTS AND IN ORDER TO TRANSITION THE ULTIMATE IMPROVEMENTS.

- WITH REGARD TO HANOVER PARKEL (L.M. #28-2-(151)-8-2)**
- WAIVER OF SECTIONS 17-201-3(B), 17-201-4 AND 17-201-5 REQUIRING THE CONSTRUCTION OR INSTALLATION OF THE FOLLOWING, BUT NOT LIMITED TO: INTER-PARCEL ACCESS, ROADWAY FRONTAGE IMPROVEMENTS, UTILITY RELOCATIONS, OVERHEADS, STREET LIGHTS OR OTHER IMPROVEMENTS OTHER THAN THOSE IDENTIFIED ON EXHIBIT 'A' OF THE PROFFERS.
- PUBLIC FACILITIES MANUAL**
- WAIVER OF PFM SECTION 6-0303.A, TO ALLOW STORM WATER MANAGEMENT FACILITIES (SWM AND BMP) TO BE PROVIDED WITHIN UNDERGROUND SYSTEMS WITHIN THE RESIDENTIAL BLOCKS OF THE PROPOSED DEVELOPMENT.
 - MODIFICATION OF PFM SECTION 7-0800 TO ALLOW TANDEM/VALET PARKING SPACES, CONTROLLED BY BUILDING MANAGEMENT, AND THAT SUCH SPACES SHALL COUNT TOWARD REQUIRED PARKING.
 - MODIFICATION OF SECTION 7-0802.2 (PARKING GEOMETRIC STANDARDS), TO ALLOW FOR UP TO 1.5 FEET OF PROJECTION OF STRUCTURAL COLUMNS INTO THE REQUIRED PARKING STALL AREA. THE PARKING STALLS AFFECTED BY SUCH STRUCTURAL COLUMNS SHALL COUNT TOWARD THE NUMBER OF REQUIRED PARKING SPACES FOR UP TO 10% OF THE TOTAL SPACES PROVIDED.
 - MODIFICATION OF SECTION 12-0508 TREE PRESERVATION TARGET, AS ALLOWED BY DEVIATIONS DESCRIBED IN SECTION 12-0508.3A(1) THROUGH SECTION 12-0508.3A(2) AND AS DESCRIBED IN REQUEST LETTER ATTACHED ON SHEET C-12.
 - MODIFICATION OF SECTION 12-0511-4 FOR REQUIRED TEN PERCENT TREE CANOPY COVERAGE ON INDIVIDUAL LOTS/LAND BAYS, TO ALLOW FOR CANOPY TO BE CALCULATED ON THE OVERALL ARBOR ROW DEVELOPMENT AREA, AS DEMONSTRATED ON THE CDP HEREIN.

TABLE 1

Site Tabulation

Building Zone	C-3 (Office District)
Proposed Zoning	FTC (Planned Transit Center Urban District (By RZCDP 2011-PR-021))
Existing Site Area	284,733 Sq. Ft.
Area of Right of Way Vacations (West Branch Drive)	+/- 3,428 Sq. Ft.
Total Area of FDP	288,161 Sq. Ft.

Density Tabulation

Existing Use Area	274,793 Sq. Ft.	0.93 AC
Area of Right of Way Dedication (West Park Drive)	+/- 8,938 Sq. Ft.	0.2032 AC
Area of Right of Way Vacations/Abandonment (West Branch Drive)	+/- 3,428 Sq. Ft.	0.08 AC
Total Area for Density Program	286,161 Sq. Ft. (2)	3.47 AC (2)
Proposed Gross Floor Area	148,800 Sq. Ft. (2)	
Floor Area Ratio	1.12 (2)	

(1) Includes square footage reserved from proposed dedication of Westpark Drive (as allowed per C.O. Section 2-208.4) and area of proposed ROW Vacations with Westbranch Drive. Final area of dedication and abandonment to be determined with final site plan.
 (2) GFA includes Superblock GFA for Public Facilities Contribution from Hanover Park (TM # 29-24-151-8-2) and Bonus GFA for provision of VODU. Refer to Residential Density Tabulation Table 3.
 (3) FAR shown for Block B within this FDP application is demonstrated as a start plane calculation. Refer to rezoning application RZCDP 2011-PR-021 for FAR calculation of entire base zoning application area (includes Blocks A-F)

TABLE 3
OVERALL ARBOR ROW RESIDENTIAL DENSITY TABULATION

TABLE 3A AVAILABLE OVERALL SITE AREA GFA PER COMP PLAN (Table 2)

1,134,848 GFA AVAILABLE FROM PROPOSED OFFICE BLOCKS (A-C & I)
1,134,848 GFA PROPOSED HOTEL BLOCKS (D & E)
1,134,848 GFA PROPOSED RETAIL BLOCKS (A-F)
3,404,544 GFA AVAILABLE OVERALL SITE AREA

TABLE 3B AVAILABLE RESIDENTIAL GFA ON SITE

1,134,848 GFA AVAILABLE FROM HANOVER SITE (L.M. #28-2-(151)-8-2)
1,134,848 GFA AVAILABLE RESIDENTIAL

TABLE 3C TOTAL RESIDENTIAL AVAILABLE

1,134,848 GFA TOTAL RESIDENTIAL AVAILABLE

TABLE 3D GFA REQUESTED FROM SUPERBLOCK CONTRIBUTION

340,454 GFA REQUESTED FROM SUPERBLOCK CONTRIBUTION
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TABLE 3E TOTAL RESIDENTIAL PROPOSED (BLOCKS A and E)

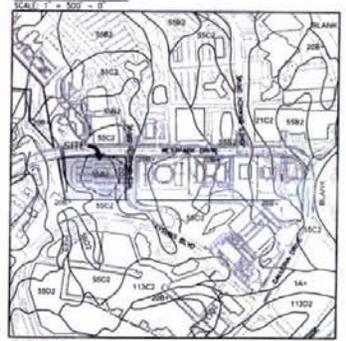
1,475,302 GFA TOTAL RESIDENTIAL PROPOSED (BLOCKS A and E)

TABLE 2
Development Tabulation - Table 2

Building	Allowable Building Height (ft)	Proposed Building Height (ft) (2011)	Proposed Building Height (ft) (2012)	Use (2)	Proposed GFA by Use (4)	Proposed Maximum Building GFA (10)(2)	Multi-family Dwelling Units (10)	Required Parking (14 - 102 min. per 1000 GFA) (6)				Total Required Parking (8)	Parking Provided (9)	Parking Ratio Per Use	Loading Space Required	Loading Space Provided (10)
								Min	Max	Min	Max					
A1	175-225	75-100	N/A	Residential	275,405	275,405	207	1.1	1.7	284	454	147	1.3	0.11	2	2
A2	175-225	75-100	Yes	Residential	457,355	457,355	237	1.1	1.7	429	155	155	1.3	0.11	2	2
				Retail/Services (5)	8,090	764,800		0	0	764	1180	142	1.3	0.11	0	0
Total																

(1) Individual building heights and number of floors/stories shown are conceptual and may be changed provided the allowable building height is not exceeded. (Refer to Architectural Site Sections for Average Grade Elevations.)
 (2) Building Height includes mechanical and mechanical stresses.
 (3) Retail and/or Service use may include a variety of commercial type uses including but not limited to eating establishments, fast food restaurants, and fast food restaurants. (Refer to R 31 on sheet C 2.0). Areas designated for retail use may also be converted to up to ten (10) Live/Work units, as determined with final site plan. In the event this conversion occurs, a maximum of 750 total dwelling units shall be permitted within Block A.
 (4) The square footage for individual uses and buildings shown is conceptual. The Applicant reserves the right to transfer square footage between and within uses (residential or non-residential) and buildings provided the allowable overall FAR is not exceeded.
 (5) Number of dwelling units/building types may be changed and will be determined at the time of final site plan.
 (6) Parking required and provided is estimated based on FDP documents. For required parking ratios, residential parking is based on an approximate unit type mix of 45% 1 BRD and 55% 2 BRD (subject to change with Final Site Plan). Number of required parking spaces may be changed based on the final parking and transit, final bedroom mix, final specific building uses, and final GFA, which is to be determined at the time of final site plan. Applicant reserves the right to provide more or less parking at the time of final site plan provided the allowable parking ratios set forth in Section 6-509 are not exceeded at the built out of the overall development.
 (7) Per Section 6-509.B.(1) - The first 5,000 square feet of ground floor retail has been subtracted prior to retail parking calculation. Retail parking based on 6 Spaces per 1,000 SF (after the first 5,000 SF).
 (8) The required number of ADAUs will be determined at final site plan based on the total square footage of total residential area constructed.
 (9) Up to ten (10) stories inclusive of possible mezzanine.
 (10) Loading space reduction as approved by water granted with CDP.
 (11) Min-Max heights refer to the allowable maximum height range.
 (12) Proposed minimum GFA shall be 85 percent (85%) of proposed maximum GFA.

SOILS MAP



SOILS CHART

SOIL NUMBER	SOIL SERIES	PROBLEM CLASS	DRAINAGE CLASS	SEVIC FIELDS	EROSION POTENTIAL
20B1	MEADOWLLE	B	MARGINAL	POOR	MODERATE
21C2	MANOR	C	GOOD	GOOD	HIGH
21D2	MANOR	C	GOOD	GOOD	HIGH
59R2	GLENELC	C	GOOD	GOOD	HIGH
55C2	GLENELC	C	GOOD	GOOD	HIGH

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ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-PR-021-A
 PROVIDENCE DISTRICT - FARRAUX COUNTY, VIRGINIA

PLAN STATUS

06/20/12	REVISE PREP. TABS
08/20/12	PRELIMINARY COMMENTS
09/14/12	PRELIMINARY COMMENTS
08/20/12	PRELIMINARY COMMENTS
08/20/12	PRELIMINARY COMMENTS

SCALE

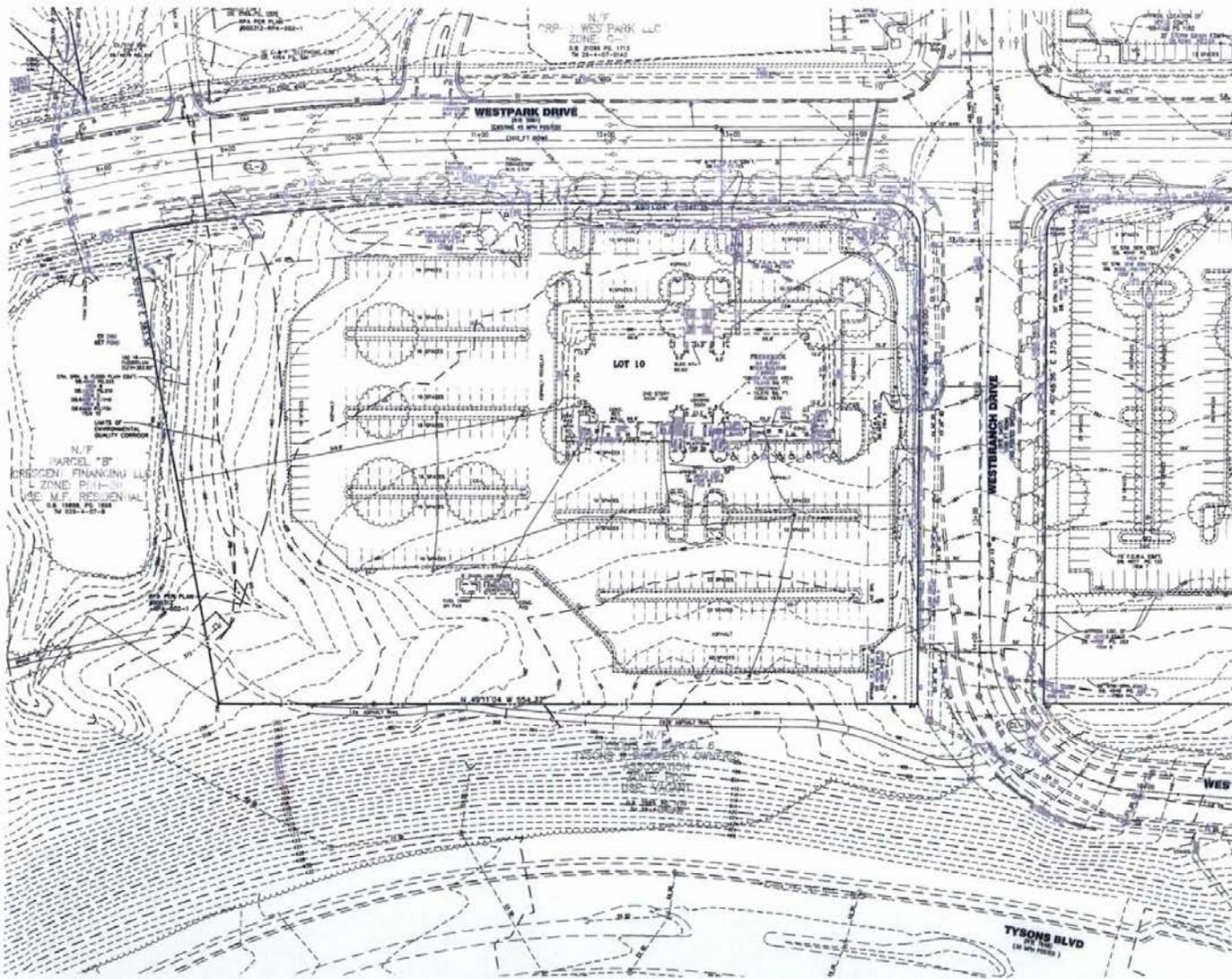
SCALE	AS SHOWN
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DATE

DATE	December 7, 2011
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SHEET

SHEET	C2.1
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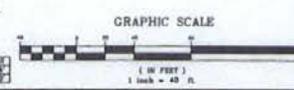
- NOTE:
1. RPA SHOWN HERE ON AS APPROVED WITH PLAN #00312-RPA-002-1.
 2. EXISTING CONDITIONS SHOWN HEREON AS OF APRIL 26, 2011.
 3. EXISTING BUILDING TO BE DEMOLISHED.

EXISTING ROADWAY CENTERLINE DATA

ROADWAY NAME	CL-1	EXISTING CENTERLINE MARKS
WESTPARK DRIVE	CL-1	SEE
WESTBRANCH DRIVE	CL-2	SEE

CURVE TABLE: LOT 10

CURVE	BEARING	LENGTH	CHORD BEARING	CHORD	PI	TANGENT
C1	112.21°	81.50'	127.11°	100.00'	112.21°	112.21°
C2	23.80°	10.97'	127.11°	100.00'	23.80°	23.80°



EXISTING CONDITIONS PLAN

ARBOR ROW - BLOCK 'A'
FINAL DEVELOPMENT PLAN 2011-PR-002-1
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STAGE

06/20/11 PER COUNTY COMMISSION
07/27/12 PER COUNTY COMMISSION
08/29/12 PER COUNTY COMMISSION
09/20/12 PER COUNTY COMMISSION

DATE DESCRIPTION
SCALE: PLT - 0'

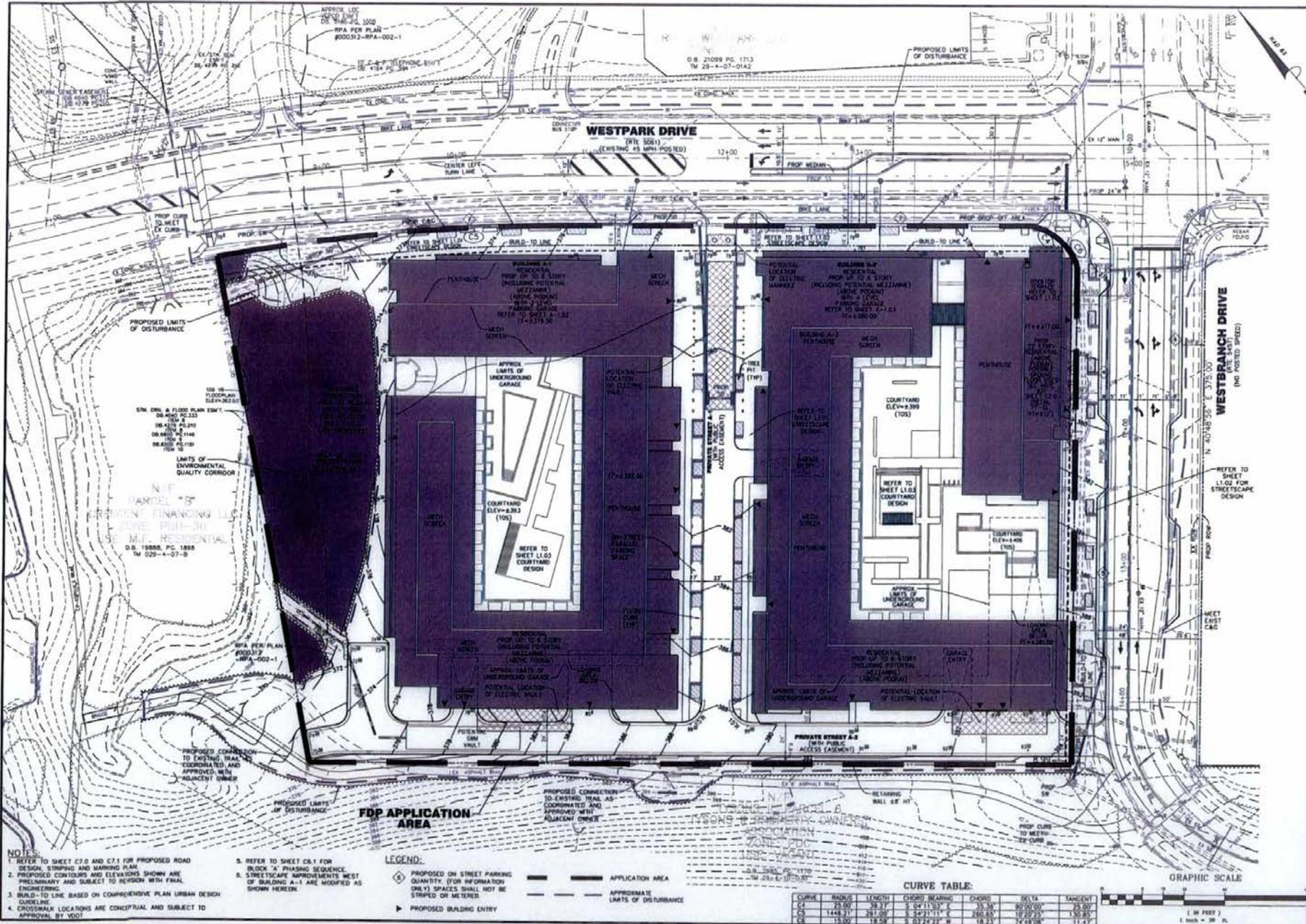
JOB No.
DATE: December 7, 2011
FILE No. 7403-09-003

SHEET C5.0

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- NOTES:**
1. REFER TO SHEET C7.0 AND C7.1 FOR PROPOSED ROAD DESIGN, STRIPING AND MARKING PLAN.
 2. PROPOSED CONTIGUOUS AND ELEVATIONS SHOWN ARE PRELIMINARY AND SUBJECT TO REVISION WITH FINAL ENGINEERING.
 3. BUILD-TO LINE BASED ON COMPREHENSIVE PLAN URBAN DESIGN GUIDELINE.
 4. CROSSWALK LOCATIONS ARE CONCEPTUAL AND SUBJECT TO APPROVAL BY VDOT.
 5. REFER TO SHEET C6.1 FOR BLOCK 'A' PHASING SEQUENCE.
 6. STREETSCAPE IMPROVEMENTS WEST OF BUILDING A-1 ARE MODIFIED AS SHOWN HEREIN.

- LEGEND:**
- PROPOSED ON STREET PARKING QUANTITY. (FOR INFORMATION ONLY) SPACES SHALL NOT BE STRIPPED OR METERS.
 - PROPOSED BUILDING ENTRY
 - APPLICATION AREA
 - APPROXIMATE LIMITS OF DISTURBANCE

CURVE TABLE:

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	75.00	38.27	S 04°11'03" E	35.38	80.0000	25.00
C2	1448.31	261.00	S 54°21'11" E	260.85	10.2025	150.85
C3	13.00	18.59	S 03°22'27" W	18.21	72.6928	11.47



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**FINAL DEVELOPMENT PLAN
 ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-FR-002-1
 PROVIDENCE DISTRICT - FARMEX COUNTY, VIRGINIA**

PLAN STATUS

01/20/12	PLANS BY AREA
01/20/12	PER COUNTY COMMISSION
02/02/12	PER COUNTY COMMISSION
08/27/12	PER COUNTY COMMISSION
05/06/13	PER COUNTY COMMISSION

TITLE DESCRIPTION

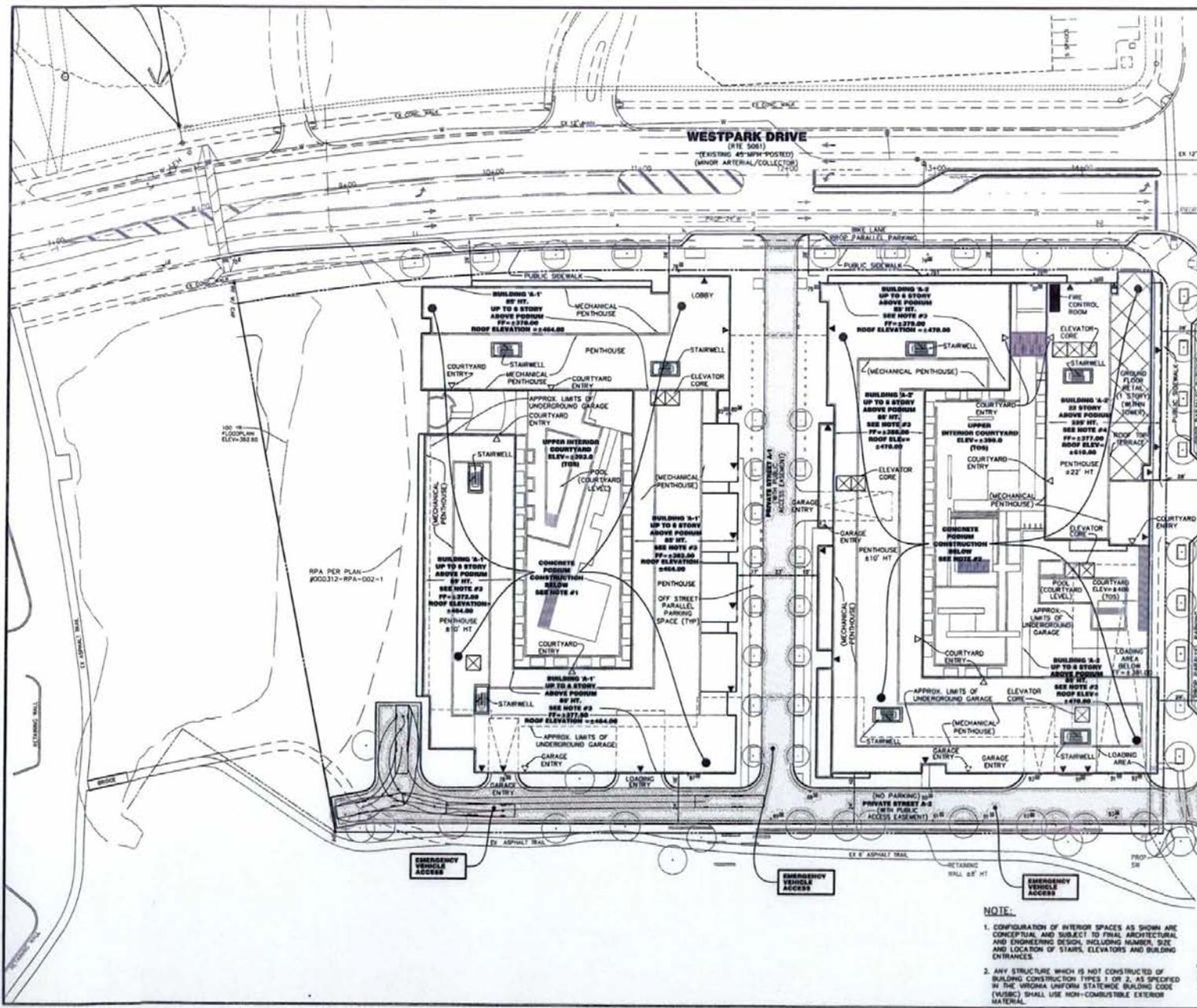
SCALE: 1" = 30'

JOB No.

DATE: December 7, 2011

FILE No: 7403-09-003

SHEET: C6.0



- LEGEND:**
- ▶ PROPOSED EXTERIOR BUILDING ENTRY
 - ▷ PROPOSED INTERIOR COURTYARD BUILDING ENTRY
 - ◻ PROPOSED GARAGE LEVEL ENTRY
 - PROPOSED TREE
 - ⊞ PROPOSED SPOT ELEVATION
 - ⊞ EMERGENCY VEHICLE ACCESS/LANDING PAD
 - ⊞ PROPOSED FLOOR RETAIL (1 STORY POOLUM)
 - ⊞ PROPOSED GROUND FLOOR RETAIL (1 STORY WITHIN TOWER)
 - ⊞ PROPOSED ELEVATOR CORE
 - ⊞ PROPOSED STAIRWELL
 - ⊞ EMERGENCY VEHICLE

- NOTES:**
1. CONCRETE POORUM - BUILDING A-1
CONSTRUCTION TYPE: 1A
USE GROUPS: A-3 (AMENITIES/FITNESS AS ACCESSORY USE)
R-2 (APARTMENTS)
B (LEASING)
S-2 (PARKING)
 2. CONCRETE POORUM - BUILDING A-2
CONSTRUCTION TYPE: 1A
USE GROUPS: A-3 (AMENITIES/FITNESS AS ACCESSORY USE)
B (LEASING)
R-2 (APARTMENTS)
S-2 (PARKING)
M (RETAIL)
 3. BUILDING A-1/A-2 (LOW RISE)
CONSTRUCTION TYPE: 3A
USE GROUPS: R-2 (APARTMENTS)
A-3 (AMENITIES/FITNESS AS ACCESSORY USE)
 4. BUILDING A-2 (TOWER)
CONSTRUCTION TYPE: 1A MODIFIED TO 1B PER VUBSC 403.2.1.1
USE GROUPS: R-2 (APARTMENTS)
A-3 (AMENITIES/FITNESS AS ACCESSORY USE)
M (RETAIL)

NOTE:
THIS SHEET IS FOR INFORMATION ONLY. SUBSEQUENT ADJUSTMENTS TO PLAN BASED ON FIRE MARSHAL REVIEW OF SITE PLAN WILL NOT REQUIRE SUBMISSION OR APPROVAL OF FDP, CDPA, PCA ETC.

NOTE:
1. CONFIGURATION OF INTERIOR SPACES AS SHOWN ARE CONCEPTUAL AND SUBJECT TO FINAL ARCHITECTURAL AND ENGINEERING DESIGN, INCLUDING NUMBER, SIZE AND LOCATION OF STAIRS, ELEVATORS AND BUILDING ENTRANCES.
2. ANY STRUCTURE WHICH IS NOT CONSTRUCTED OF BUILDING CONSTRUCTION TYPES 1 OR 2, AS SPECIFIED IN THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUBSC) SHALL USE NON-COMBUSTIBLE EXTERIOR MATERIAL.

FOR INFORMATION ONLY
GRAPHIC SCALE
1" = 10' FEET
1" = 30' FT.

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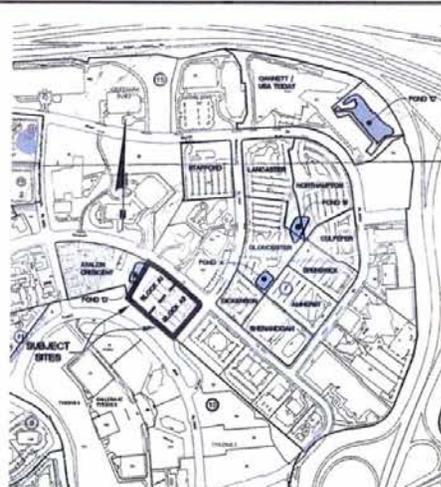
FIRE VEHICULAR ACCESS EXHIBIT
ARBOR ROW - BLOCK 'A'
FINAL DEVELOPMENT PLAN 2011-PR-020-1
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
12/20/11	FOR COUNTY COMMENTS
01/23/12	FOR COUNTY COMMENTS
02/29/12	FOR COUNTY COMMENTS
03/26/12	FOR COUNTY COMMENTS

DATE: December 7, 2011
FILE No: 7402-09-003
SHEET: C7.2



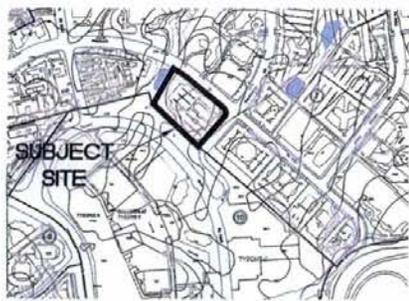
1 EX VICINITY MAP
SCALE 1"=500'
C8.0



2 PROP VICINITY MAP
SCALE 1"=500'
C8.0



3 OUTFALL MAP
SCALE 1"=1000'
C8.0



4 SOILS MAP
SCALE 1"=500'
C8.0

OUTFALL NARRATIVE

SITE DESCRIPTION:

THE SUBJECT SITE IS LOCATED IN TYSONS CORNER, SOUTH OF THE DULLES TOLL ROAD (RT. 267), WEST OF THE CAPITAL BELTWAY (I-495), AND NORTH OF CHAIN BRIDGE RD (RT. 123). THE SUBJECT SITE INCLUDES THE FREDERICK BUILDING WHICH IS LOCATED ON PFD 10. THE SUBJECT SITE IS APPROXIMATELY 750 ACRES. SEE VICINITY MAP ON THIS SHEET. THE SUBJECT SITE HAS EXISTING OFFICE BUILDINGS WITH SURFACE PARKING AND LANDSCAPE ISLANDS. THE SITE IS FRONTED BY WESTPARK DR (RT. 5061) TO THE NORTH AND BOUND BY ALBERTA DRIVE TO THE WEST. THE TOTAL SITE AREA OF THIS PARCEL IS APPROXIMATELY 5.36 ACRES. THE EXISTING SITE PRODUCE NEW PROPERTY LINES TO CREATE BLOCKS A1 & A2. SEE VICINITY MAP ON THIS SHEET.

OUTFALL DESCRIPTION:

PER THE MINIMUM STORMWATER INFORMATION FOR REZONING, SPECIAL EXCEPTION, SPECIAL PERMIT AND DEVELOPMENT PLAN APPLICATIONS CHECKLIST, THE SITE'S STORM OUTFALL MUST BE DESCRIBED DOWNSTREAM TO A POINT WHERE THERE IS A DRAINAGE AREA OF AT LEAST ONE SQUARE MILE (840 ACRES). SEE BELOW FOR A DETAILED DESCRIPTION OF THE STORM OUTFALLS FROM THE SUBJECT SITES TO POINT X. SEE OUTFALL MAP ON THIS SHEET FOR REACH LOCATIONS. THE SITE IS MADE UP OF BLOCKS A1 AND A2.

BLOCK A1 (WESTERN HALF OF FREDERICK SITE) - REACH A TO REACH D TO REACH E TO POND "A"
BLOCK A2 (EASTERN HALF OF FREDERICK SITE) - APPROXIMATELY 40% (WESTERN PORTION) OF THE SITE'S STORM WATER IS PART OF THE REACH A FLOW PATH AND GOES FROM REACH A TO D TO POINT X. APPROXIMATELY 60% (EASTERN PORTION) OF THE SITE'S STORM WATER IS PART OF REACH B FLOW PATH AND GOES FROM REACH B TO D TO POINT X.

REACH DESCRIPTIONS:

REACH A: THE STORM WATER FLOW PATH OF REACH A TRAVELS FROM POND "D" TO REACH D. WATER LEAVES POND "D" THROUGH A 48" DIAMETER PIPE AND FLOWS NORTHWEST TO A WOODED AND HEAVILY VEGETATED NATURAL OPEN CHANNEL WHERE WATER CONTINUES AND ENTERS INTO AN UNDERGROUND 34" PIPE. WATER THEN FLOWS NORTHWEST WITHIN THE UNDERGROUND STORM SEWER SYSTEM FOR APPROXIMATELY 500 FEET AND DAYLIGHTS SOUTHWEST OF THE INTERSECTION OF WESTBRANCH DR. (RT. 5457) AND JONES BRANCH DR. (RT. 5062) ON THE STAFFORD SITE. WATER THEN ENTERS THE JONES BRANCH DR. (RT. 5062) UNDERGROUND STORM SEWER SYSTEM WHICH RUNS EAST, PARALLEL TO JONES BRANCH DR. (RT. 5062) WHERE IT THEN INTERSECTS WITH REACH B AND TOGETHER FORM REACH D.

REACH B: THE STORM WATER FLOW PATH OF REACH B TRAVELS FROM THE SUBJECT SITE TO POND "A". STORM WATER ENTERS POND "A" AND FLOWS NORTHEAST TO POND "B" VIA AN OPEN CHANNEL. FROM POND "B" WATER ENTERS AN UNDERGROUND STORM SEWER SYSTEM AND FLOWS NORTH INTO A STORM SEWER SYSTEM UNDER JONES BRANCH DR. (RT. 5062) WHERE IT THEN INTERSECTS WITH REACH A AND TOGETHER FORM REACH D. STORM WATER FROM THE SITE ENTERS UNDERGROUND STORM SEWER SYSTEMS UNDER WESTBRANCH DR. (RT. 5457), WESTPARK DR. (RT. 5061), AND AN UNDERGROUND STORM SEWER SYSTEM FOUND ON THE CAMPBELL SITE. STORM WATER THAT ENTERS THE UNDERGROUND STORM SEWER SYSTEMS OF WESTBRANCH DR. (RT. 5457) AND WESTPARK DR. (RT. 5061) CONVERGE TOGETHER ON THE EXISTING SITE AT A LOCATION SOUTHWEST OF THE INTERSECTION OF WESTBRANCH DR. (RT. 5457) AND WESTPARK DR. (RT. 5061). FROM THIS POINT, WATER FLOWS IN A SUBSURFACE 42" PIPE NORTHEAST UNDER WESTPARK DR. (RT. 5061) AND CONTINUES UNDER THE DOWNSTREAM SITE UNTIL IT OUTFALLS INTO POND "A". ADDITIONALLY, STORM WATER LEAVES THE CAMPBELL SITE IN AN UNDERGROUND STORM SEWER SYSTEM LOCATED WITHIN THE CAMPBELL SITE. WATER IN THIS SYSTEM FLOWS NORTHWEST, CROSSES UNDER WESTPARK DR. (RT. 5061), AND CONTINUES NORTHWEST UNDER THE SHENANDOAH SITE UNTIL IT OUTFALLS INTO POND "A".

REACH C: THE STORM WATER FLOW PATH OF REACH C TRAVELS FROM POND "C" TO POND "A". WATER ENTERS POND "C" VIA TWO (2) 72" RCP PIPES LOCATED AT THE EASTERN PORTION OF THE POND AND DAYLIGHTS INTO AN OPEN CHANNEL, JUST PAST THE DAM EMBANKMENT. FROM THERE WATER CONTINUES NORTHEAST AND ENTERS A CULVERT WHICH TRAVELS UNDER THE DULLES TOLL ROAD (RT. 267) EASTBOUND ACCESS RAMP TO CAPITAL BELTWAY I-495. ONCE PAST THE ACCESS RAMP WATER AGAIN DAYLIGHTS AND CONTINUES NORTHEAST UNTIL IT ENTERS A SECOND CULVERT AND CROSSES UNDER THE DULLES TOLL ROAD (RT. 267) EAST AND WEST BOUND LANES. WATER THEN DAYLIGHTS BEYOND THE WESTBOUND LANE OF DULLES TOLL ROAD (RT. 267) INTO AN OPEN CHANNEL WHERE IT CONTINUES NORTHEAST TO POINT X.

REACH D: THE STORM WATER FLOW PATH OF REACH D BEGINS WHERE REACHES A AND B CONVERGE AND ENDS WHEN WATER TRAVELS TO POND "C" AND THEN ENTERS REACH E. REACHES A AND B COMBINE AT THE NORTHERN MOST END OF THE NORTHAMPTON SITE PROPERTY LINE, JUST SOUTH OF JONES BRANCH DR. (RT. 5062). FROM THIS POINT, WATER FLOWS NORTH UNDER JONES BRANCH DR. (RT. 5062) IN AN UNDERGROUND STORM SEWER SYSTEM. ONCE NORTH OF JONES BRANCH DR. (RT. 5062) THE STORM SEWER SYSTEM RUNS NORTHEAST DIRECTLY TOWARDS POND "C" WHERE IT OUTFALLS. IN POND "C" REACHES C AND D COMBINE TO FORM REACH E.

REACH E: THE STORM WATER FLOW PATH OF REACH E TRAVELS FROM POND "C" TO POINT X. WATER ENTERS POND "C" VIA TWO (2) 72" RCP PIPES LOCATED AT THE EASTERN PORTION OF THE POND AND DAYLIGHTS INTO AN OPEN CHANNEL, JUST PAST THE DAM EMBANKMENT. FROM THERE WATER CONTINUES NORTHEAST AND ENTERS A CULVERT WHICH TRAVELS UNDER THE DULLES TOLL ROAD (RT. 267) EASTBOUND ACCESS RAMP TO CAPITAL BELTWAY I-495. ONCE PAST THE ACCESS RAMP WATER AGAIN DAYLIGHTS AND CONTINUES NORTHEAST UNTIL IT ENTERS A SECOND CULVERT AND CROSSES UNDER THE DULLES TOLL ROAD (RT. 267) EAST AND WEST BOUND LANES. WATER THEN DAYLIGHTS BEYOND THE WESTBOUND LANE OF DULLES TOLL ROAD (RT. 267) INTO AN OPEN CHANNEL WHERE IT CONTINUES NORTHEAST TO POINT X.

POINT X: THE DRAINAGE AREA TO POINT X IS APPROXIMATELY 750 ACRES, AND ENCOMPASSES THE SUBJECT SITES. FROM POINT X, WATER TRAVELS EAST UNTIL IT ENTERS INTO SCOTTS RUN WHICH FLOWS NORTHEAST, PARALLEL TO CAPITAL BELTWAY I-495. STORMWATER LEAVES THE SUBJECT SITES VIA EXISTING CLOSED CONDUIT SYSTEMS, TRAVELS TO VARIOUS PONDS, THEN OUTFALLS INTO SCOTT'S RUN STREAM AT POINT "X". AS SHOWN ON THE OUTFALL MAP, THE DRAINAGE AREA AT POINT "X" IS 750 ACRES (± 840 ACRES). THEREFORE, THE ABOVE OUTFALL DESCRIPTION SATISFIES THE REQUIREMENTS OF THE 10M CHECKLIST.

PFM REQUIREMENTS:

THE ADEQUATE OUTFALL REQUIREMENTS OF THE PFM SHALL BE FORMALLY ADDRESSED AT THE TIME OF FINAL ENGINEERING. AT THE TIME OF FINAL ENGINEERING AN ADEQUATE OUTFALL ANALYSIS WILL BE CONDUCTED FOR EACH SUBJECT SITE TO BE INCLUDED IN EACH SITE'S INDIVIDUAL SITE PLAN, WHICH WILL DETERMINE THE ADEQUACY OF EACH SITE'S OUTFALL. THE DOWNSTREAM EXTENT OF ANALYSIS SHALL MOST LIKELY BE DETERMINED BY PFM SECTION 8-0223.3A, WHICH DEFINES THE EXTENT TO BE TO A POINT THAT IS AT LEAST 150 FEET DOWNSTREAM OF A POINT WHERE THE RECEIVING PIPE OR CHANNEL IS JOINED BY ANOTHER THAT HAS A DRAINAGE AREA THAT IS AT LEAST 90% OF THE SIZE OF THE FIRST DRAINAGE AREA AT THE POINT OF CONFLUENCE. STORM SEWER COMPUTATIONS SHALL BE PROVIDED FOR THE EXISTING CLOSED CONDUIT SYSTEM WHERE THE 150' POINT OF CONFLUENCE IS WITHIN THE SYSTEM OR FIELD MEASURED CROSS-SECTIONS SHALL BE ANALYZED 150' DOWNSTREAM FROM THE POINT OF CONFLUENCE, PER PFM SECTION 8-0223.3B(7).

SUMMARY:

IT IS THE OPINION OF BOWMAN CONSULTING GROUP THAT THE STORM SEWER OUTFALLS HAVE BEEN SUFFICIENTLY DESCRIBED AND CHECKED ADDITIONALLY, AT THE TIME OF FINAL SITE PLAN, IT SHALL BE DEMONSTRATED THAT THE OUTFALL IS ADEQUATE PER THE REQUIREMENTS AND CRITERIA SET FORTH IN THE PFM.

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ADJACENT OUTFALL AND SWM CHECKLIST
ARBOR ROW - BLOCK "A"
FINAL DEVELOPMENT PLAN 2011-PR-020-1
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
11/21/11	PER COUNTY COMMENTS

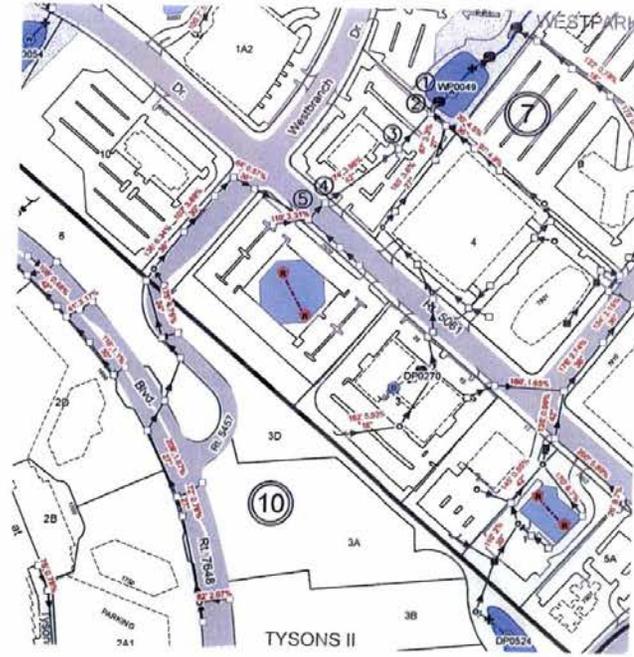
DATE: 11/21/11
SCALE: H 48 Sheet
JOB No.:
DATE: December 7, 2011
FILE No.: 7403-09-003
SHEET: C8.0

- MINIMUM STORMWATER INFORMATION FOR REZONING, SPECIAL EXCEPTION, SPECIAL PERMIT AND DEVELOPMENT PLAN APPLICATIONS
- The following information is required to be shown or provided in all zoning applications, or a waiver request of the submission requirement with justification shall be attached. Note: Waivers will be acted upon retroactively. Failure to adequately address the required submission information may result in a delay in processing this application.
- This information is required under the following Zoning Ordinance paragraphs:
Special Permits (8-011.2 & 2L)
Cluster Subdivision (8-015.10 & 10)
Development Plans (PFD District (16-302.3 & 4), PFD (16-302.10 & 10), PDP P Districts (except PFD) (16-302.1P & 1Q), Amendments (16-302.10P & 10), Special Exceptions (8-011.2 & 2L)
Commercial Reutilization Districts (8-022.2A (12) & (14))
PFD P Districts (except PFD) (16-302.1P & 1Q)
Amendments (16-302.10P & 10)
1. Plat is at a minimum scale of 1"=50' (unless it is depicted on one sheet with a minimum scale of 1"=100').
 2. A graphic depicting the stormwater management facility(ies) and levels of clearing and grading accommodate the stormwater management facility(ies), storm drainage pipe systems and outlet protection, pond spillways, access roads, site topography, energy dissipation devices, and stream stabilization measures as shown on Sheet C8.0.
 3. Provide:

Facility Name/ Type & No.	On-site area acres (gross)	Off-site area acres (gross)	Drainage area (gross) acres (gross)	Floodproof area (gross) acres (gross)	Storage Volume (cfs) -/5-MIN	If pond, dam height (ft) -/5-MIN
01 SW VSD1	1.87	-	1.87	1.87	15,588	N/A
02 SW VSD1	1.88	-	1.88	1.88	5,389	N/A
TOTAL						
 4. Outlet drainage channels, outfalls and pipe systems are shown on Sheet C8.0.
Pond VSD and outlet pipe systems are shown on Sheet C8.0.
 5. Maintenance access (road) to stormwater management facility(ies) are shown on Sheet C8.0.
Type of maintenance access road surface noted on the plat is ASPHALT (seal, pebble, gravel, etc.).
 6. Landscaping and tree preservation shown in and near the stormwater management facility is shown on Sheet N/A.
 7. A stormwater management manual which contains a description of how operation and best management practices requirements will be met is provided on Sheet C8.0.
 8. A description of the existing conditions of each numbered site outlet extended downstream from the site to a point which is at least 100 feet for site area or which has a drainage area of at least one square mile (840 acres) is provided on Sheet C8.0.
 9. A description of how the outfall requirements, including contributing drainage areas of the Public Facility Manual will be satisfied is provided on Sheet C8.0.
 10. Existing topography with minimum contour intervals of two (2) feet and a note as to whether it is an air wave or field run is provided on Sheet C8.0.
 11. A submission waiver is requested for UNDERGROUND DETENTION FOR RESIDENTIAL PROJECT.
 12. Stormwater management is not required because N/A.

REACH B EXISTING PIPE COMPUTATIONS

FROM POINT	TO POINT	AREA DRAIN 'A' (ACRES)	RUN OFF COEFF	CA	RAET TIME	RAIN FALL	RAE OFF D	EXIST ELEVATIONS	LENGTH	ACTUAL SLOPE	FRS SLOPE	DA	GAFA CITY	FULL FLOW VEL.	ACTUAL VEL.
(1)	(2)	IN - ALIGNED	C	MIN - ALIGNED	MIN - LINES	IN / HR	D	COVER END	FT	%	%	IN	C.F.S.	F.P.S.	F.P.S.
		(3)	(4)	(5)	(6)	(7)	(8)	UPPER END	DOWN END	(10)	(11)	(12)	(13)	(14)	(15)
4	3	20.82	0.30	13.43	1.00	1.00	104.64	104.64	75	0.013	1.00	1.00	42	100.27	11.97
4	2	23.41	0.30	14.70	1.00	1.00	105.00	105.00	274	0.013	1.13	42	100.27	22.81	22.22
2	1	1.95	0.30	4.49	1.00	1.00	104.50	104.50	175	0.013	1.00	42	100.27	11.97	11.97
2	1	1.95	0.30	4.49	1.00	1.00	104.50	104.50	175	0.013	1.00	42	100.27	11.97	11.97
2	1	1.95	0.30	4.49	1.00	1.00	104.50	104.50	175	0.013	1.00	42	100.27	11.97	11.97
2	1	1.95	0.30	4.49	1.00	1.00	104.50	104.50	175	0.013	1.00	42	100.27	11.97	11.97



1 REACH B OUTFALL MAP
C8.0.1
NOT TO SCALE

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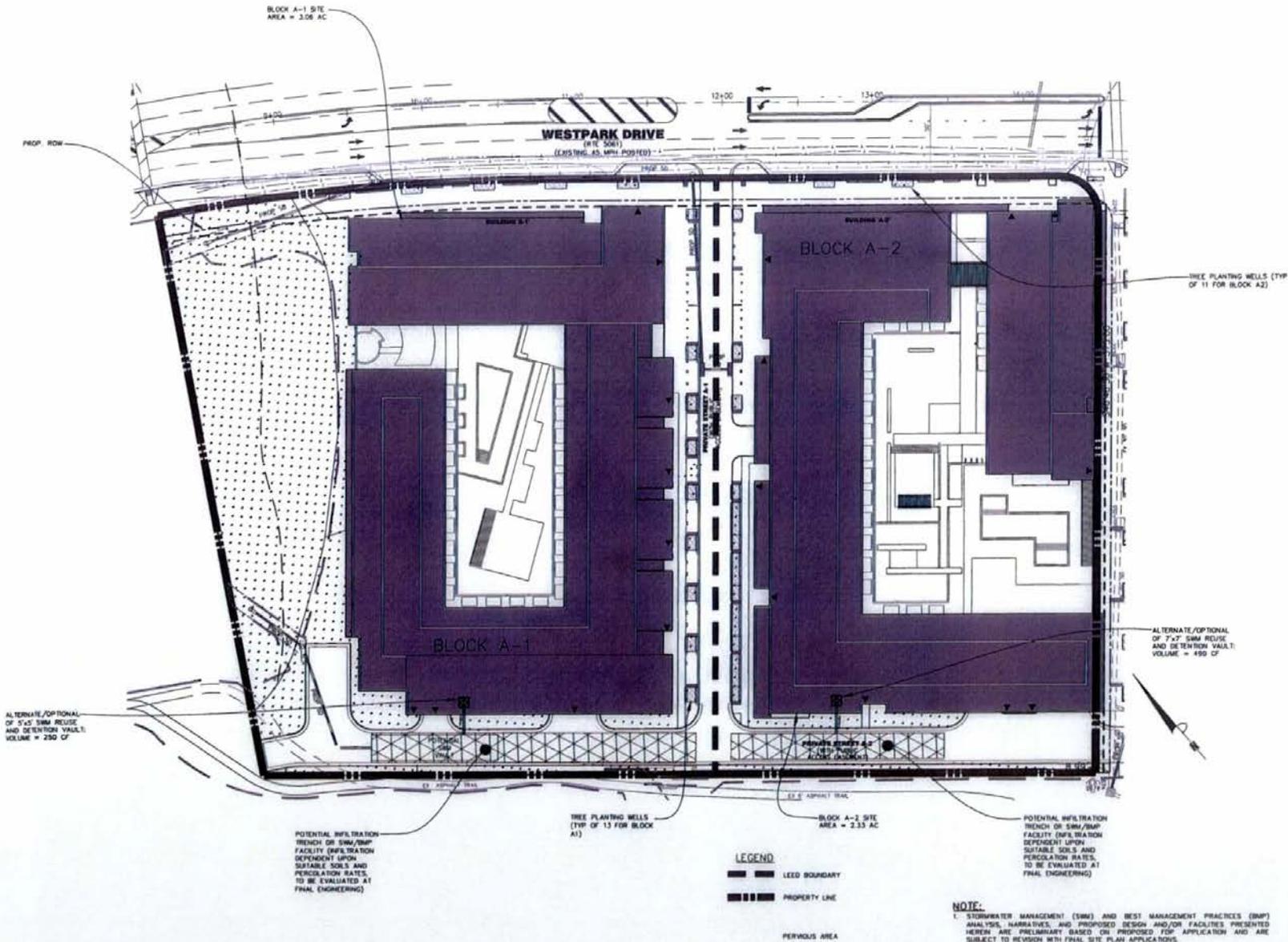
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ADEQUATE OUTFALL AND SWM CHECKLIST
ARBOR ROW - BLOCK 'A'
FINAL DEVELOPMENT PLAN 2011-PR-025-1
PROVIDENCE DISTRICT - FARRAX COUNTY, VIRGINIA

DATE	DESCRIPTION
08/27/12	PER COUNTY COMMENTS
09/23/12	PER COUNTY COMMENTS
09/29/12	PER COUNTY COMMENTS
10/04/12	PER COUNTY COMMENTS
DATE	DESCRIPTION
SCALE	AS SHOWN
JOB No.	
DATE	December 7, 2011
FILE No.	7403-00-003
SHEET	C8.0.1



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CONCEPTUAL SWM PLAN
ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-PR-022-1
 PROVIDENCE DISTRICT - FARRAN COUNTY, VIRGINIA

PLAN STATUS	
08/20/12	PER COUNTY COMMENTS
07/23/12	PER COUNTY COMMENTS
06/20/12	PER COUNTY COMMENTS
05/23/12	PER COUNTY COMMENTS
05/02/12	PER COUNTY COMMENTS
DATE	DESCRIPTION
SCALE	1" = 30'
JOB No.	
DATE	October 7, 2011
FILE No.	7463-09-002
SHEET	C9.0

NOTE.
 1. STORMWATER MANAGEMENT (SWM) AND BEST MANAGEMENT PRACTICES (BMP) ANALYSIS, NARRATIVES, AND PROPOSED DESIGN AND/OR FACILITIES PRESENTED HEREIN ARE PRELIMINARY BASED ON PROPOSED FSDP APPLICATION AND ARE SUBJECT TO REVISION WITH FINAL SITE PLAN APPLICATIONS.
 2. THE APPLICANT RESERVES THE RIGHT TO VARY THE NUMBER, SIZE, SHAPE, AND LOCATION OF THE LID PRACTICES WITH FINAL ENGINEERING.

BLOCK A-1 FIRST INCH OF RUNOFF COMPUTATIONS:

Tysons Corner Comprehensive Plan Stormwater Conformance Spreadsheet - Beta Version 4-18-2012									
Site Name: Block A1									
Description: All soils present are type B soils with a total area of 9.36 Acres (33,302 sq ft). DAA is in Tree Pln. DAB is in Crbm and Infiltration. DAB is underlaid to Pond.									
Drainage Area Land Cover									
Rv Coefficients									
Land Cover Type	HSG A soils	HSG B soils	HSG C soils	HSG D soils	Totals	100% Rv	75% Rv	50% Rv	25% Rv
Forest / Preserved Open Space - Undisturbed, protected forest and open space or watershed forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (lawns)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Impervious Cover (parking)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00								

Land Cover Summary									
Target Rainfall to Retain: One Inch (inches)	100% Rv	75% Rv	50% Rv	25% Rv	Weighted Rv (inches)				
Forest / Preserved Open Space (ac)	0.00	0.00	0.00	0.00	0.00				
% Forest	0%	0%	0%	0%	0%				
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00				
Weighted Rv (in)	0.00	0.00	0.00	0.00	0.00				
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00				
Rv (inches)	0.00	0.00	0.00	0.00	0.00				
% Impervious	0%	0%	0%	0%	0%				
Total Site Area (acres)	0.00	0.00	0.00	0.00	0.00				

Rainfall / Runoff Summary									
Target Rainfall to Retain: One Inch (inches)	100% Rv	75% Rv	50% Rv	25% Rv	Weighted Rv (inches)				
1-Inch Rainfall Volume for entire site (cf)	11,120	8,340	5,560	2,780	5,560				
Volume Not Converted to Runoff (cf)	3,337	2,503	1,669	834	1,669				
1-Inch Runoff Volume for entire site (cf)	7,783	5,837	3,891	1,946	3,891				

Tysons Corner Comprehensive Plan Stormwater Conformance Spreadsheet - Beta Version 4-18-2012									
Site Name: Block A1									
Description: All soils present are type B soils with a total area of 9.36 Acres (33,302 sq ft). DAA is in Tree Pln. DAB is in Crbm and Infiltration. DAB is underlaid to Pond.									
Drainage Area A Post-Development Land Cover									
Rv Coefficients									
Land Cover Type	HSG A soils	HSG B soils	HSG C soils	HSG D soils	Totals	100% Rv	75% Rv	50% Rv	25% Rv
Forest / Preserved Open Space - Undisturbed, protected forest and open space or watershed forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (lawns)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Impervious Cover (parking)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00								

Land Cover Summary									
Target Rainfall to Retain: One Inch (inches)	100% Rv	75% Rv	50% Rv	25% Rv	Weighted Rv (inches)				
Forest / Preserved Open Space (ac)	0.00	0.00	0.00	0.00	0.00				
% Forest	0%	0%	0%	0%	0%				
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00				
Weighted Rv (in)	0.00	0.00	0.00	0.00	0.00				
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00				
Rv (inches)	0.00	0.00	0.00	0.00	0.00				
% Impervious	0%	0%	0%	0%	0%				
Total Site Area (acres)	0.00	0.00	0.00	0.00	0.00				

Rainfall / Runoff Summary									
Target Rainfall to Retain: One Inch (inches)	100% Rv	75% Rv	50% Rv	25% Rv	Weighted Rv (inches)				
1-Inch Rainfall Volume for entire site (cf)	11,120	8,340	5,560	2,780	5,560				
Volume Not Converted to Runoff (cf)	3,337	2,503	1,669	834	1,669				
1-Inch Runoff Volume for entire site (cf)	7,783	5,837	3,891	1,946	3,891				

NOTE: THE INFILTRATION VOLUME IS APPROXIMATELY 13,333 OF WHICH EXCEEDS THE REQUIRED VOLUME TO MEET THE ONE-INCH RAIN GOAL. IT IS NOT PRACTICABLE TO RETAIN SMALL AREAS OF THE SITE PORPHYRY DUE TO REQUIRED SITE GRADING. HOWEVER, THE FULL 1-INCH RAIN EVENT CAN BE RETAINED ON SITE BY OVER RETAINING UP TO 1.4-INCHES OF RAIN THAT FALLS ON THE BUILDING ROOF IF THE RUNOFF REDUCTION MEASURES AND COMPUTATIONS SHOWN HEREIN ARE APPROVED BY THE COUNTY. IF THE RUNOFF REDUCTION MEASURES AND/OR COMPUTATIONS SHOWN HEREIN ARE NOT APPROVED BY DPMS, THE APPLICANT WILL WORK WITH THE COUNTY TO RETAIN THE FIRST 1-INCH OF RAINFALL TO THE EXTENT PRACTICABLE IN ACCORDANCE WITH THE COMPREHENSIVE PLAN GOAL.

IN FURTHERANCE OF THE APPLICANT'S COMMITMENTS HEREIN AND WHILE IT INTENDS TO MEET THE 1-INCH USING THE TECHNIQUES SHOWN, IT RESERVES THE RIGHT TO UTILIZE ANY COMBINATION OF LID (EXISTING AND FUTURE) MEASURES TO MEET THIS GOAL SUBJECT TO THE REVIEW AND APPROVAL OF DPMS AT TIME OF SITE PLAN.

RECOGNIZING THAT RUNOFF REDUCTION TECHNOLOGIES ARE RELATIVELY NEW AND STILL EVOLVING, THE APPLICANT'S FINAL DESIGN DEVELOPMENT AND/OR DPMS COMMENTS ON THE SITE PLAN MAY RESULT IN CHANGES TO THE LID MEASURES SHOWN ON THE COP AND FOR POP, INCLUDING, BUT NOT LIMITED TO, ELIMINATION OR ADDITION OF MEASURES SO LONG AS THESE CHANGES DO NOT AFFECT THE GOAL OF STREETS, THE GENERAL LOCATION OF THE POINTS OF ACCESS TO EACH BLOCK, THE GENERAL LOCATION OF THE BUILDINGS, THE BUILD-TO LINES, THE MINIMUM AMOUNT AND GENERAL LOCATION OF PUBLICLY-ACCESSIBLE URBAN PARK LAND AS MAY BE APPLICABLE FOR EACH BLOCK AND THE GENERAL QUALITY AND CHARACTER OF THE STREETSCAPE ALONG THE PUBLIC AND PRIVATE STREETS WITHIN AND ADJACENT TO THE SUBJECT PROPERTY AND AS OTHERWISE SPECIFIED IN THE PROFFERS.

Tysons Corner Comprehensive Plan Stormwater Conformance Spreadsheet - Beta Version 4-18-2012									
Site Name: Block A1									
Description: All soils present are type B soils with a total area of 9.36 Acres (33,302 sq ft). DAA is in Tree Pln. DAB is in Crbm and Infiltration. DAB is underlaid to Pond.									
Drainage Area A Post-Development Land Cover									
Rv Coefficients									
Land Cover Type	HSG A soils	HSG B soils	HSG C soils	HSG D soils	Totals	100% Rv	75% Rv	50% Rv	25% Rv
Forest / Preserved Open Space - Undisturbed, protected forest and open space or watershed forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (lawns)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Impervious Cover (parking)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00								

Land Cover Summary									
Target Rainfall to Retain: One Inch (inches)	100% Rv	75% Rv	50% Rv	25% Rv	Weighted Rv (inches)				
Forest / Preserved Open Space (ac)	0.00	0.00	0.00	0.00	0.00				
% Forest	0%	0%	0%	0%	0%				
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00				
Weighted Rv (in)	0.00	0.00	0.00	0.00	0.00				
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00				
Rv (inches)	0.00	0.00	0.00	0.00	0.00				
% Impervious	0%	0%	0%	0%	0%				
Total Site Area (acres)	0.00	0.00	0.00	0.00	0.00				

Rainfall / Runoff Summary									
Target Rainfall to Retain: One Inch (inches)	100% Rv	75% Rv	50% Rv	25% Rv	Weighted Rv (inches)				
1-Inch Rainfall Volume for entire site (cf)	11,120	8,340	5,560	2,780	5,560				
Volume Not Converted to Runoff (cf)	3,337	2,503	1,669	834	1,669				
1-Inch Runoff Volume for entire site (cf)	7,783	5,837	3,891	1,946	3,891				

Tysons Corner Comprehensive Plan Stormwater Conformance Spreadsheet - Beta Version 4-18-2012									
Site Name: Block A1									
Description: All soils present are type B soils with a total area of 9.36 Acres (33,302 sq ft). DAA is in Tree Pln. DAB is in Crbm and Infiltration. DAB is underlaid to Pond.									
Drainage Area C Post-Development Land Cover									
Rv Coefficients									
Land Cover Type	HSG A soils	HSG B soils	HSG C soils	HSG D soils	Totals	100% Rv	75% Rv	50% Rv	25% Rv
Forest / Preserved Open Space - Undisturbed, protected forest and open space or watershed forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (lawns)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Impervious Cover (parking)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00								

Land Cover Summary									
Target Rainfall to Retain: One Inch (inches)	100% Rv	75% Rv	50% Rv	25% Rv	Weighted Rv (inches)				
Forest / Preserved Open Space (ac)	0.00	0.00	0.00	0.00	0.00				
% Forest	0%	0%	0%	0%	0%				
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00				
Weighted Rv (in)	0.00	0.00	0.00	0.00	0.00				
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00				
Rv (inches)	0.00	0.00	0.00	0.00	0.00				
% Impervious	0%	0%	0%	0%	0%				
Total Site Area (acres)	0.00	0.00	0.00	0.00	0.00				

Rainfall / Runoff Summary									
Target Rainfall to Retain: One Inch (inches)	100% Rv	75% Rv	50% Rv	25% Rv	Weighted Rv (inches)				
1-Inch Rainfall Volume for entire site (cf)	11,120	8,340	5,560	2,780	5,560				
Volume Not Converted to Runoff (cf)	3,337	2,503	1,669	834	1,669				
1-Inch Runoff Volume for entire site (cf)	7,783	5,837	3,891	1,946	3,891				

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BLOCK A-1 SWM COMPUTATIONS
ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-PR-023-1
 PROVIDENCE DISTRICT - FAYFAUX COUNTY, VIRGINIA

PLAN STATUS

06/01/11	PER CIVILITY COMMENTS
07/13/11	PER CIVILITY COMMENTS
08/01/11	PER CIVILITY COMMENTS
09/01/11	PER CIVILITY COMMENTS

DATE: December 7, 2011
 FILE NO: 7403-09-003

BLOCK A-1 LEED COMPUTATIONS:

NOTE:
SEE SHEET C9.0 FOR LIMITS OF 3.06 ACRES LEED BOUNDARY.

GEOMETRICAL PEAK DISCHARGE METHOD Version 2.10

PROJECT: WESTRAC REDEVELOPMENT
COUNTY: FAIRFAX STATE: VA USAP: 650 DATE: 10-20-2011
SUBTITLE: EXISTING CONDITIONS BLOCK A1

Data: Drainage Area: 3.06 ACRES
Roughness Coefficient: 0.10
Time of Concentration: 12 MIN
Pond and Storage Area: NONE

Storm Number	1	2	3
Frequency (yrs)	1	2	10
24-hr rainfall (in)	2.7	3.2	5.1
IA/P Ratio	0.16	0.14	0.08
used	0.16	0.14	0.08
runoff (in)	1.15	1.16	1.13
unit Peak Discharge (cfs/acre/in)	3.143	3.157	3.578
Pond and Storage Factor	1.00	1.00	1.00
0.06 Pond/used			
Peak Discharge (cfs)	9	7	10

TOTAL RUNOFF VOLUME (EXISTING CONDITIONS)
1 YR STORM: 3.06 AC X 1.15 (IN) X 177.7284 X 43560 = 12,774 CU. FT.
2 YR STORM: 3.06 AC X 1.16 (IN) X 177.7284 X 43560 = 17,107 CU. FT.

GEOMETRICAL PEAK DISCHARGE METHOD Version 2.10

PROJECT: WESTRAC REDEVELOPMENT
COUNTY: FAIRFAX STATE: VA USAP: 650 DATE: 10-20-2011
SUBTITLE: PROPOSED CONDITIONS BLOCK A1

Data: Drainage Area: 3.06 ACRES
Roughness Coefficient: 0.10
Time of Concentration: 12 MIN
Pond and Storage Area: NONE

Storm Number	1	2	3
Frequency (yrs)	1	2	10
24-hr rainfall (in)	2.7	3.2	5.1
IA/P Ratio	0.11	0.09	0.05
used	0.11	0.10	0.10
runoff (in)	1.48	1.81	4.54
unit Peak Discharge (cfs/acre/in)	3.172	3.178	3.178
Pond and Storage Factor	1.00	1.00	1.00
0.06 Pond/used			
Peak Discharge (cfs)	7	9	10

TOTAL RUNOFF VOLUME (PROPOSED CONDITIONS)
1 YR STORM: 3.06 AC X 1.48 (IN) X 177.7284 X 43560 = 16,440 CU. FT.
2 YR STORM: 3.06 AC X 1.81 (IN) X 177.7284 X 43560 = 21,218 CU. FT.

TOTAL RUNOFF VOLUME (ALLOWABLE RELEASE)
PER LEED, POST-DEVELOPED VOLUME FOR THE 1-YEAR AND 2-YEAR STORMS MUST NOT EXCEED 75% OF THE EXISTING CONDITIONS VOLUMES. THEREFORE ANY STORAGE REQUIRED SHALL BE MET WITH A REUSE VAULT.

1-YEAR STORM
16,440 CU. FT. - (0.75 X 12,774 CU. FT.) = 6,860 CU. FT.
2-YEAR STORM
21,218 CU. FT. - (0.75 X 17,107 CU. FT.) = 8,386 CU. FT.

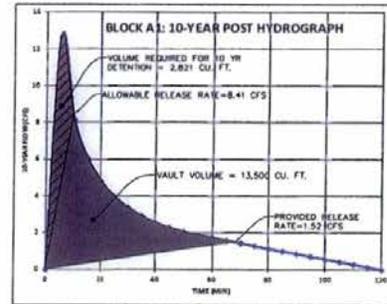
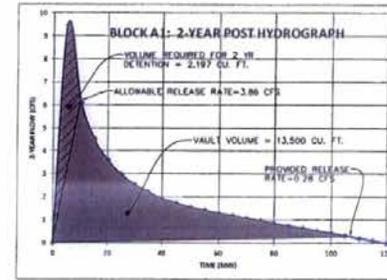
SUMMARY
THE 2-YEAR STORM EVENT CONTROLS, AND 8,386 CF OF STORAGE IS NEEDED TO SATISFY THE LEED REQUIREMENT.

BLOCK A-1 PFM COMPLIANCE:

ALLOWABLE RELEASE COMPUTATIONS (RATIONAL METHOD):

- O=CIA
- PRE-DEVELOPMENT RUNOFF
TOTAL SITE AREA = 3.06 AC
C = 0.54
I₂ = 5.45 IN/HR
I₁₀ = 7.27 IN/HR
Q₂ = 9.50 CFS
Q₁₀ = 12.01 CFS
 - POST-DEVELOPMENT DETENTION FACILITY INFLOW
AREA = 2.05 AC
C = 0.85
I₂ = 5.45 IN/HR
I₁₀ = 7.27 IN/HR
Q₂ = 9.50 CFS
Q₁₀ = 12.87 CFS
 - POST-DEVELOPMENT ONSITE UNDETAINED
AREA = 1.01 AC
C = 0.49
I₂ = 5.45 IN/HR
I₁₀ = 7.27 IN/HR
Q₂ = 2.70 CFS
Q₁₀ = 3.80 CFS
 - ALLOWABLE RELEASE RATE COMPUTATION
Q(ALLOWABLE) = [PRE-DEVELOPED RUNOFF] - [ONSITE UNDETAINED]
Q2(ALLOWABLE) = 9.01 CFS - 2.70 CFS = 6.31 CFS
Q10(ALLOWABLE) = 12.01 CFS - 3.80 CFS = 8.41 CFS
 - SWM VAULT RELEASE RATE
Q2 PEAK OUT = 0.38 CFS
Q10 PEAK OUT = 1.52 CFS

THE RELEASE RATES FROM THE SWM/REUSE VAULT SHALL BE LOWER THAN THE ALLOWABLE RELEASE RATES FOR THE 2-YR AND 10-YR STORM EVENTS, AS SUCH THE PFM DETENTION REQUIREMENTS HAVE BEEN MET.



INFILTRATION SIZING COMPUTATIONS:

INFILTRATION TRENCH DESIGN

- Given the infiltration rate, calculate the design infiltration rate.

$$i_d = 0.5 \cdot i$$

$$i_d = 0.27 \text{ in/hr}$$

- Calculate the maximum design depth for the infiltration trench.

$$S_{max} = S_p \cdot T_{max} / V_p$$

$$S_{max} = 48.00 \text{ in}$$

$$V_p = 0.40$$

$$S_{max} = 2.70 \text{ ft}$$

- Calculate the water quality volume requirements for the trench.

$$V_{QW} = \text{Impervious} \cdot \text{Area} \cdot \text{Depth}$$

$$\text{Drainage Area} = 2.89 \text{ Ac}$$

$$\text{Pond Volume} = 1.80 \text{ in}$$

$$\text{VOL}_{QW} = 5.133 \text{ cf}$$

- Calculate the minimum surface area for the bottom of the infiltration trench.

$$\text{Surface} = V_{QW} / (i_d \cdot \text{Time})$$

$$SA_{min} = 4.828 \text{ sf}$$

$$\text{Design Length} = 206.00 \text{ ft}$$

$$\text{Design Width} = 20.00 \text{ ft}$$

$$\text{Design SA} = 4.000 \text{ sf}$$

$$\text{Design Depth} = 1.70 \text{ ft}$$

- Compare provided volume to required volume.

$$\text{Required Volume} = V_{QW} / W$$

$$\text{Provided Volume} = \text{Design Length} \cdot \text{Design Width} \cdot \text{Design Depth}$$

$$\text{Required Volume} = 15,333 \text{ ft}^3$$

$$\text{Provided Volume} = 15,389 \text{ ft}^3$$

$$\text{Design Volume is Sufficient}$$

BLOCK A-1 OVERALL SWM SUMMARY:

	REQUIRED STORAGE
LEED:	8,386 CF
1" RUNOFF:	5,162 CF
PFM:	2,821 CF

CONTROLS SWM VAULT STORAGE REQUIREMENT

TO ENSURE THAT THE STORAGE NECESSARY TO DETAIN THE 10-YEAR STORM (PER THE PFM) IS AVAILABLE WITHIN 48 HOURS OF A PREVIOUS STORM, THE VAULT HAS BEEN SIZED AS FOLLOWS:

MAX VOLUME FOR REUSE (LEED) = 7,380 CF
AMOUNT THAT CAN BE DRAINED IN 48 HOURS DURING THE WINTER = 0 CF (WATER TOWER DEMAND)
VOLUME FOR 10-YEAR STORM DETENTION (PFM) = 2,816 CF

$$8,386 - 0 + 2,821 = 11,207 \Rightarrow 11,250 \text{ CF OF STORAGE NEEDED}$$

FINAL BLOCK A-1 STORAGE REQUIREMENT = 11,250 CF
STORAGE PROVIDED THROUGH INFILTRATION: 13,500 CF

NOTE:

- STORMWATER MANAGEMENT (SWM) AND BEST MANAGEMENT PRACTICES (BMP) ANALYSIS, NARRATIVES, AND PROPOSED DESIGN AND/OR FACILITIES PRESENTED HEREIN ARE PRELIMINARY BASED ON PROPOSED PDP APPLICATION AND ARE SUBJECT TO REVISION WITH FINAL SITE PLAN APPLICATIONS.

- THE APPLICANT RESERVES THE RIGHT TO VARY THE NUMBER, SIZE, SHAPE, AND LOCATION OF THE LID PRACTICES WITH FINAL ENGINEERING.

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BLOCK A-1 SWM COMPUTATIONS
ARBOR ROW - BLOCK 'A'
FINAL DEVELOPMENT PLAN 2011-PR-023-1
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS

08/20/12	PER COUNTY COMMENT
07/23/12	PER COUNTY COMMENT
06/26/12	PER COUNTY COMMENT
05/29/12	PER COUNTY COMMENT

SCALE: H=8' V=8' SWIM

JOB NO.

DATE: December 7, 2011

FILE NO: 74031-09-003

SHEET: C9.2

BLOCK A-2 LEED COMPUTATIONS:

NOTE:
SEE SHEET C9.0 FOR LIMITS OF
2.33 ACRES LEED BOUNDARY.

TOPPAZ PFM GRAPHICAL PEAK DISCHARGE METHOD		Version: 2.10	
Project: WESTRANK REDEVELOPMENT	State: VA	User: KSD	
County: FAIRFAX	City: VA	Checked: _____	
SubTitle: EXISTING CONDITIONS BLOCK A2		Date: 10-20-2011	
Data: Drainage Area: 2.33 Acres			
Runoff Curve Number: 9.8			
Time of Concentration: 0.10 Hours			
Rainfall Type: 15			
Pond and Swamp Area: NONE			
Storm Number	1	2	3
Frequency (yrs)	1	2	10
24-hr rainfall (in)	2.7	3.2	5.5
24/P Ratio	0.06	0.05	0.03
used	0.10	0.10	0.10
Runoff (in)	1.87	2.45	4.88
Unit Peak Discharge (cfs/acre/in)	1.578	1.578	1.578
Pond and Swamp Factor	1.00	1.00	1.00
0.00 Ponds used			
Peak Discharge (cfs)	7	9	17

TOTAL RUNOFF VOLUME (EXISTING CONDITIONS)
 1 YR STORM: 2.33 AC X 1.87 (IN) X 1.578/120 X 43560 = 16,863 CU. FT.
 2 YR STORM: 2.33 AC X 2.45 (IN) X 1.578/120 X 43560 = 20,722 CU. FT.

TOPPAZ PFM GRAPHICAL PEAK DISCHARGE METHOD		Version: 2.10	
Project: WESTRANK REDEVELOPMENT	State: VA	User: KSD	
County: FAIRFAX	City: VA	Checked: _____	
SubTitle: PROPOSED CONDITIONS BLOCK A2		Date: 10-20-2011	
Data: Drainage Area: 2.33 ACRES			
Runoff Curve Number: 9.8			
Time of Concentration: 0.10 Hours			
Rainfall Type: 15			
Pond and Swamp Area: NONE			
Storm Number	1	2	3
Frequency (yrs)	1	2	10
24-hr rainfall (in)	2.7	3.2	5.5
24/P Ratio	0.06	0.05	0.03
used	0.10	0.10	0.10
Runoff (in)	1.87	2.45	4.88
Unit Peak Discharge (cfs/acre/in)	1.578	1.578	1.578
Pond and Swamp Factor	1.00	1.00	1.00
0.00 Ponds used			
Peak Discharge (cfs)	7	9	17

TOTAL RUNOFF VOLUME (PROPOSED CONDITIONS)
 1 YR STORM: 2.33 AC X 1.87 (IN) X 1.578/120 X 43560 = 16,863 CU. FT.
 2 YR STORM: 2.33 AC X 2.45 (IN) X 1.578/120 X 43560 = 20,722 CU. FT.

TOTAL RUNOFF VOLUME (ALLOWABLE RELEASE)
 PER LEED, POST-DEVELOPMENT VOLUME FOR THE 1 YEAR AND 2 YEAR STORMS MUST NOT EXCEED 75% OF THE EXISTING CONDITIONS VOLUMES. THEREFORE ANY STORAGE REQUIRED SHALL BE MET WITH A REUSE VAULT.

1-YEAR STORM
 16,863 CU. FT. - (0.75 X 16,863 CU. FT.) = 4,166 CU. FT.
2-YEAR STORM
 20,722 CU. FT. - (0.75 X 20,722 CU. FT.) = 5,181 CU. FT.

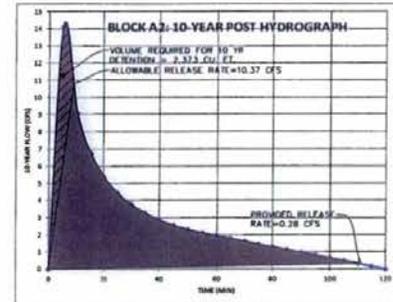
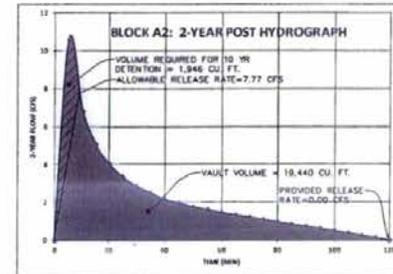
SUMMARY
 THE 2-YEAR STORM EVENT CONTROLS AND 5,181 CF OF STORAGE IS NEEDED TO SATISFY THE LEED REQUIREMENT.

BLOCK A-2 PFM COMPLIANCE:

ALLOWABLE RELEASE COMPUTATIONS (RATIONAL METHOD):

- Q=CIA
- PRE-DEVELOPMENT RUNOFF
 TOTAL SITE AREA = 2.33 AC
 C = 0.72
 I = 5.45 IN/HR
 IO = 7.27 IN/HR
 O2 = 9.14 CFS
 O10 = 12.20 CFS
 - POST-DEVELOPMENT DETENTION FACILITY INFLOW
 AREA = 2.21 AC
 C = 0.68
 I = 5.45 IN/HR
 IO = 7.27 IN/HR
 O2 = 10.60 CFS
 O10 = 14.14 CFS
 - POST-DEVELOPMENT ONSITE UNDETAINED
 AREA = 0.30 AC
 C = 0.84
 I = 5.45 IN/HR
 IO = 7.27 IN/HR
 O2 = 1.37 CFS
 O10 = 1.83 CFS
 - ALLOWABLE RELEASE RATE COMPUTATION
 (ALLOWABLE) = [PRE-DEVELOPED RUNOFF] - [ONSITE UNDETAINED]
 O2(ALLOWABLE) = 9.14 CFS - 1.37 CFS = 7.77 CFS
 O10(ALLOWABLE) = 12.20 CFS - 1.83 CFS = 10.37 CFS
 - SWM VAULT RELEASE RATE
 O2 PEAK OUT = 0.00 CFS
 O10 PEAK OUT = 0.28 CFS

THE RELEASE RATES FROM THE SWM/REUSE VAULT SHALL BE LOWER THAN THE ALLOWABLE RELEASE RATES FOR THE 2-YR AND 10-YR STORM EVENTS, AS SUCH THE PFM DETENTION REQUIREMENTS HAVE BEEN MET.



BLOCK A-2 OVERALL SWM SUMMARY:

	REQUIRED STORAGE
LEED:	5,181 CF
1" RUNOFF:	6,190 CF
PFM:	2,373 CF

← CONTROLS SWM VAULT STORAGE REQUIREMENT

TO ENSURE THAT THE STORAGE NECESSARY TO DETAIN THE 10-YEAR STORM (PER THE PFM) IS AVAILABLE WITHIN 48 HOURS OF A PREVIOUS STORM, THE VAULT HAS BEEN SIZED AS FOLLOWS:

MAX VOLUME FOR REUSE (1" RUNOFF) = 6,190 CF
 AMOUNT THAT CAN BE DRAINED BY 48 HOURS DURING THE WINTER = 0 CF (WATER TOWER DEMAND)
 VOLUME FOR 10-YEAR STORM DETENTION (PFM) = 1,390 CF
 $6,190 - 0 + 2,373 = 8,563 \Rightarrow 8,600$ CF OF STORAGE NEEDED

FINAL BLOCK A-2 STORAGE REQUIREMENT = 8,600 CF
 STORAGE PROVIDED THROUGH INFILTRATION: 10,440 CF

NOTE:

- STORMWATER MANAGEMENT (SWM) AND BEST MANAGEMENT PRACTICES (BMP) ANALYSIS, NARRATIVES, AND PROPOSED DESIGN AND/OR FACILITIES PRESENTED HEREIN ARE PRELIMINARY BASED ON PROPOSED PFM APPLICATION AND ARE SUBJECT TO REVISION WITH FINAL SITE PLAN APPLICATIONS.
- THE APPLICANT RESERVES THE RIGHT TO VARY THE NUMBER, SIZE, SHAPE, AND LOCATION OF THE LID PRACTICES WITH FINAL ENGINEERING.

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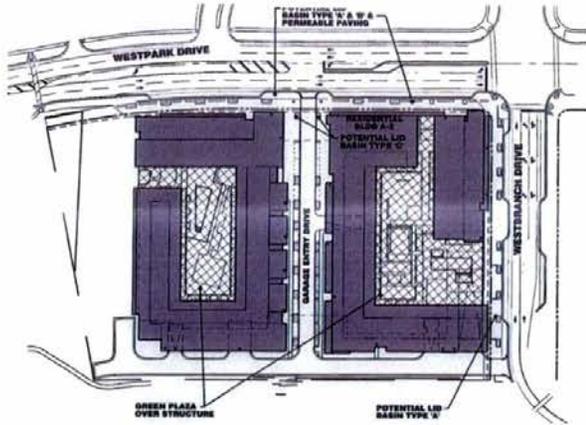
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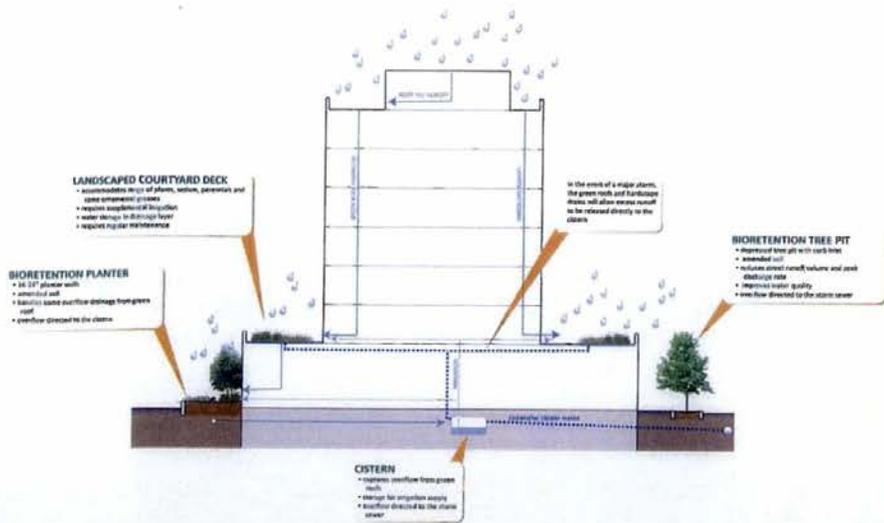
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BLOCK A-2 SWM COMPUTATIONS
 ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-PR-020-1
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
10/20/11	PER COUNTY COMMENTS
10/27/11	PER COUNTY COMMENTS
11/02/11	PER COUNTY COMMENTS
11/09/11	PER COUNTY COMMENTS
11/16/11	PER COUNTY COMMENTS
11/23/11	PER COUNTY COMMENTS
11/30/11	PER COUNTY COMMENTS
12/07/11	PER COUNTY COMMENTS
12/14/11	PER COUNTY COMMENTS
12/21/11	PER COUNTY COMMENTS
12/28/11	PER COUNTY COMMENTS
01/04/12	PER COUNTY COMMENTS
01/11/12	PER COUNTY COMMENTS
01/18/12	PER COUNTY COMMENTS
01/25/12	PER COUNTY COMMENTS
02/01/12	PER COUNTY COMMENTS
02/08/12	PER COUNTY COMMENTS
02/15/12	PER COUNTY COMMENTS
02/22/12	PER COUNTY COMMENTS
02/29/12	PER COUNTY COMMENTS
03/06/12	PER COUNTY COMMENTS
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1 LOW IMPACT DEVELOPMENT TECHNIQUES - CONCEPT PLAN
NTS



CONCEPTUAL BUILDING DIAGRAM FOR L.I.D TECHNIQUES



BASIN TYPE 'A' & PERMEABLE PAVERS



BASIN TYPE 'B'



BASIN TYPE 'C'



NOTE:
1. THIS PLAN IS INTENDED FOR INFORMATION ONLY TO DEMONSTRATE POTENTIAL L.I.D. METHODS OF RAINWATER REUSE. IN ACKNOWLEDGEMENT OF THE TYSON URBAN CENTER COMPREHENSIVE PLAN GUIDELINES FOR STORM WATER MANAGEMENT, FINAL METHODS, MEANS, LOCATIONS, SIZES AND SPECIFIC L.I.D. FACILITIES WILL VARY WITH FINAL ENGINEERING DESIGN.
2. REFER TO SHEET LS.07 FOR ADDITIONAL SUSTAINABILITY DESIGN INFORMATION.

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 14023 Thornhill Place, Suite 100
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 Architecture, Interior Design, Landscape Architecture

HOME PROPERTIES PARTNERS
 1000 North Boulevard
 Suite 1000
 Alexandria, VA 22304
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 Fax: 703.546.8000
 A subsidiary of
 D.L. Fleet Estate Group Partners

Cityline PARTNERS
 A subsidiary of
 D.L. Fleet Estate Group Partners

LOW IMPACT DEVELOPMENT CONCEPT PLAN
ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-PR-021-1
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	
08/25/12	PER COUNTY COMMENTS
07/23/12	PER COUNTY COMMENTS
06/29/12	PER COUNTY COMMENTS
05/29/12	PER COUNTY COMMENTS

DATE	DESCRIPTION
SCALE	1" = 48' (SHEET)
JOB No.	
DATE	December 7, 2011
FILE No.	7403-09-003
SHEET	C10.0

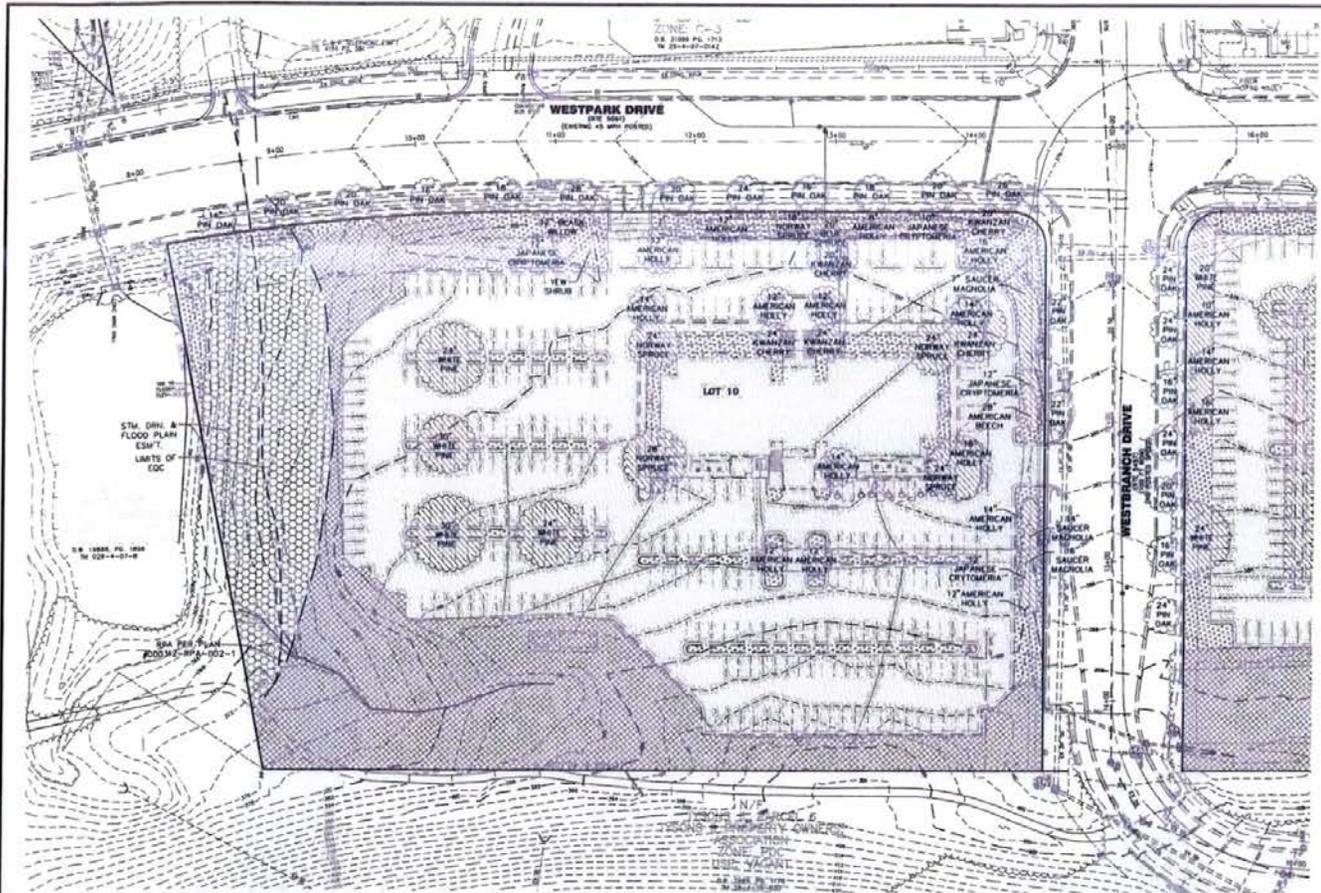


Table 12.3 Tree Preservation Target Calculations and Statement

A	Pre-development area of existing tree canopy from Existing Vegetation Map 1.	2.20 AC
B	Percentage of gross site area retained by existing tree canopy.	41%
C	Percentage of 30 year canopy removal for site (see Table 12.4) (Pre-Comprehensive Plan Goal - 10%)	60% (0.54 AC)
D	Percentage of the 30 year tree canopy requirement that should be met through tree preservation.	41% (0.22 AC)
E	Proposed succession of various requirements that will be met through tree preservation.	39% (0.30 AC)
F	Has the Tree Preservation Target minimum been met?	YES
G	If No for line F, then a request to deviate from the Tree Preservation Target shall be provided on the plan that states one or more of the justifications listed in 12.0607.3 along with a narrative that provides a site-specific explanation of why the Tree Preservation Target cannot be met. Provide sheet number where deviation request is located.	OK
H	If a deviation narrative is provided, it shall be approved in accordance with 12.0608.6	OK
I	Place this information with the 30 year Tree Canopy Calculations as per instructions in Table 12.10	N/A

LEGEND

-  EXISTING INDIVIDUAL TREE LINE
-  EXISTING TREE CANOPY LINE

* DOMINANT TREE SPECIES
 TOTAL SITE AREA = 5,388.7 AC.
 EXISTING TREE CANOPY = 95,791 S.F. OR 2.20 AC.
 (.52 AC. OR 22,610 S.F. LANDSCAPE TREE CANOPY +
 1.13 AC. OR 49,414 S.F. EARLY SUCCESSIONAL FOREST +
 .55 AC. OR 23,767 S.F. BOTTOMLAND FOREST)

LOT 10 COVER TYPE

KEY	COVER TYPE	SPECIES TYPE	SUCCESSOR STAGE	CONDITION	TOTAL AREA
	EARLY SUCCESSIONAL FOREST COMMUNITY	*TULIP POPLAR, BLACK LOCUST, BLACK CHERRY, WHITE PINE, RED OAK, RED MAPLE, BLACK WALNUT	EARLY	FAIR	1,134.4 AC.
	DEVELOPED LAND	N/A	N/A	N/A	2,733.4 AC.
	BOTTOMLAND FOREST	*TULIP POPLAR, BLACK CHERRY, AMERICAN ELM, BLACK LOCUST, WHITE PINE, RED MAPLE, PALMATHUS, CATALPA	EARLY	FAIR	.55 AC.
	LANDSCAPE TREE CANOPY	SEE EVM	MD-LATE	FAIR TO GOOD	.52 AC.
	MISC. SHRUBS AND GROUND COVER	N/A	N/A	FAIR TO GOOD	.45 AC.



EXISTING VEGETATION MAP
ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-PR-023-1
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLM STATUS

06/20/11	PER COUNTY COMMENTS
07/12/11	PER COUNTY COMMENTS
08/20/11	PER COUNTY COMMENTS
10/02/11	PER COUNTY COMMENTS

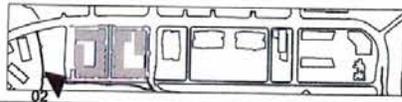
DATE 11-11-11
SCALE 1" = 40'
JOB No.
DATE December 7, 2011
FILE No. 7403-09-003
SHEET C11.0

Cityline PARTNERS
 A Subsidiary of
 D.J. Hill Estate Capital Partners

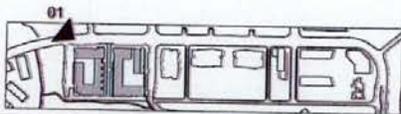
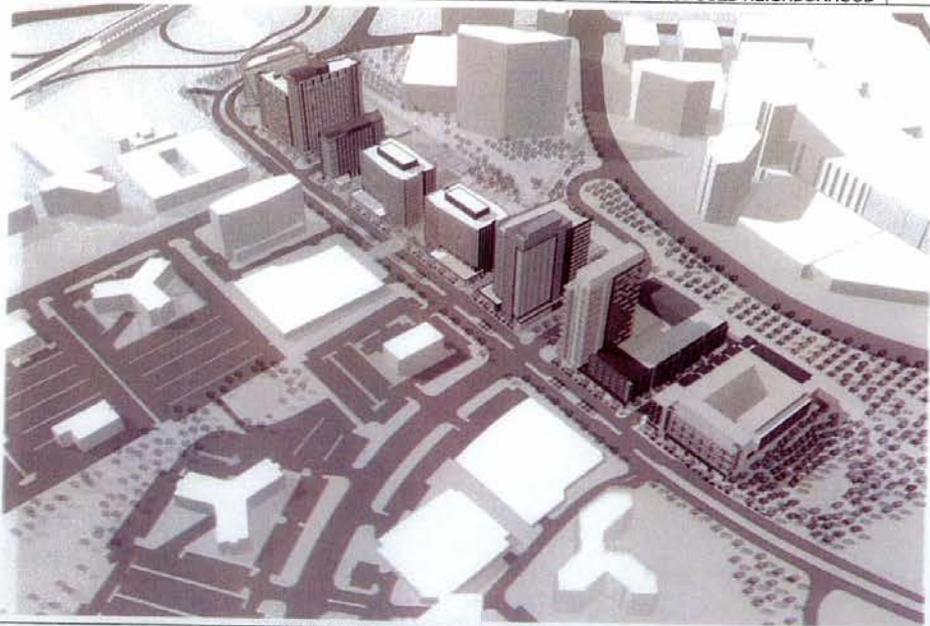
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AERIAL VIEW FROM TYSONS BLVD. WITH NEW PROPOSED NEIGHBORHOOD — N19 02



NOTE:
THE AERIAL VIEWS SHOWN ARE ILLUSTRATIVE
AND DO NOT REPRESENT THE MAXIMUM
ALLOWABLE BUILDING HEIGHTS PROPOSED FOR
BLOCK A AND NEIGHBORHOOD DEVELOPMENT
BEYOND.

AERIAL VIEW FROM WESTPARK DRIVE WITH NEW PROPOSED NEIGHBORHOOD — N19 01

Bowman
POWELL
KOBAYASHI
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101 North Union St., #202
Arlington, VA 22204
Phone: (703) 641-1774
www.painteranddriguez.com
Painting, Urban Design,
Landscape Architecture

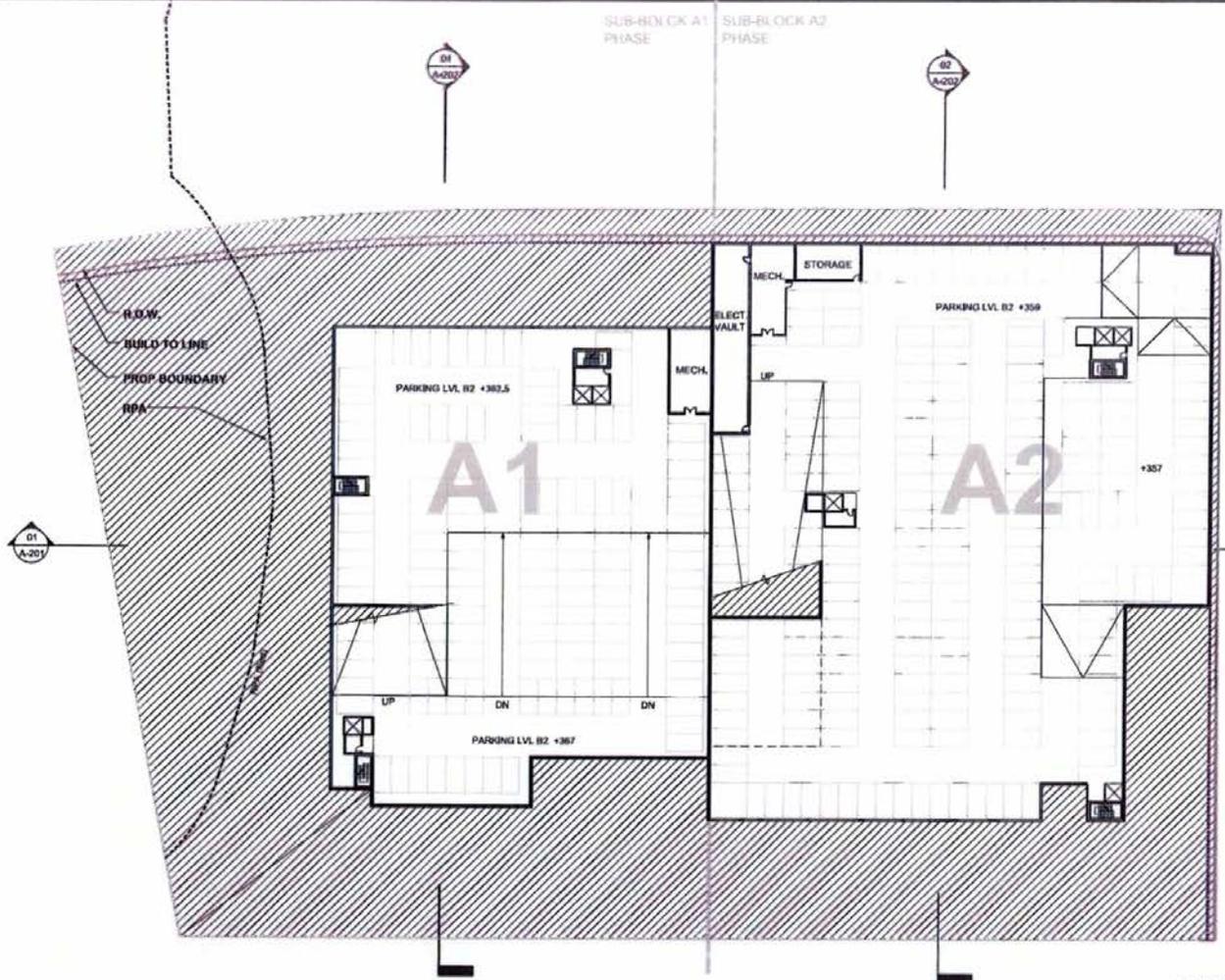
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CONTEXTUAL AERIAL VIEWS
ARBOR ROW - BLOCK 'A'
FINAL DEVELOPMENT PLAN 2011-FR-025-1
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

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- NOTES**
- 1- IT IS ANTICIPATED THAT THIS PROJECT WILL BE BUILT IN TWO PHASES WITH BLOCK A2 BEING BUILT FIRST, FOLLOWED BY BLOCK A1, SUBJECT TO MARKET CONDITIONS. SEE CIL 1 FOR PHASING DETAILS.
 - 2- SLAB & ROOF ELEVATIONS, AS INDICATED, MAY VARY BUT WILL NOT EXCEED MAXIMUM HEIGHTS LISTED.
 - 3- CONFIGURATION OF INTERIOR SPACES AS SHOWN ARE CONCEPTUAL & SUBJECT TO FINAL ARCHITECTURAL & ENGINEERING DESIGN, INCLUDING NUMBER, SIZE, ALLOCATIONS OF STAIRS, ELEVATORS, AND BLDG. ENTRANCES. FINAL LAYOUTS MAY VARY.
 - 4- ABOVE GRADE BUILDING SETBACKS ARE APPROXIMATE & WILL BE FINALIZED AT SITE PLAN.
 - 5- SEE LANDSCAPE DRAWINGS FOR EXTENT OF ROOF, COURTYARD & STREETSCAPE DESIGN.
 - 6- SEE CIVIL DRAWINGS FOR SWM & STREET DESIGNS & SECTIONS.
 - 7- PARKING SPACE LAYOUT AS SHOWN IS SUBJECT TO MODIFICATIONS. FINAL CONFIGURATION OF PARKING IS SUBJECT TO RESIDENTIAL UNIT MIX, FINAL PARKING COUNT, STRUCTURE & MECHANICAL SYSTEM LAYOUT, AND WILL BE FINALIZED AT BUILDING PERMIT.

- LEGEND**
- BLDG FOOTPRINT ABOVE
 - +
 - ▲ PEDESTRIAN ENTRY
 - ↔ VEHICULAR ENTRY
 - PROPERTY (ROW) LINE
 - BUILD TO LINE
 - ▨ BELOW GRADE



LEVEL B2 - PARKING PLAN 10/18/2011 01 SHEET A-101

Bowman
 PARKERBERG DRIGUIZ, INC.
 401 North Union St., #200
 222 S. Main St., Suite 200
 222 S. Main St., Suite 200
 222 S. Main St., Suite 200
 222 S. Main St., Suite 200

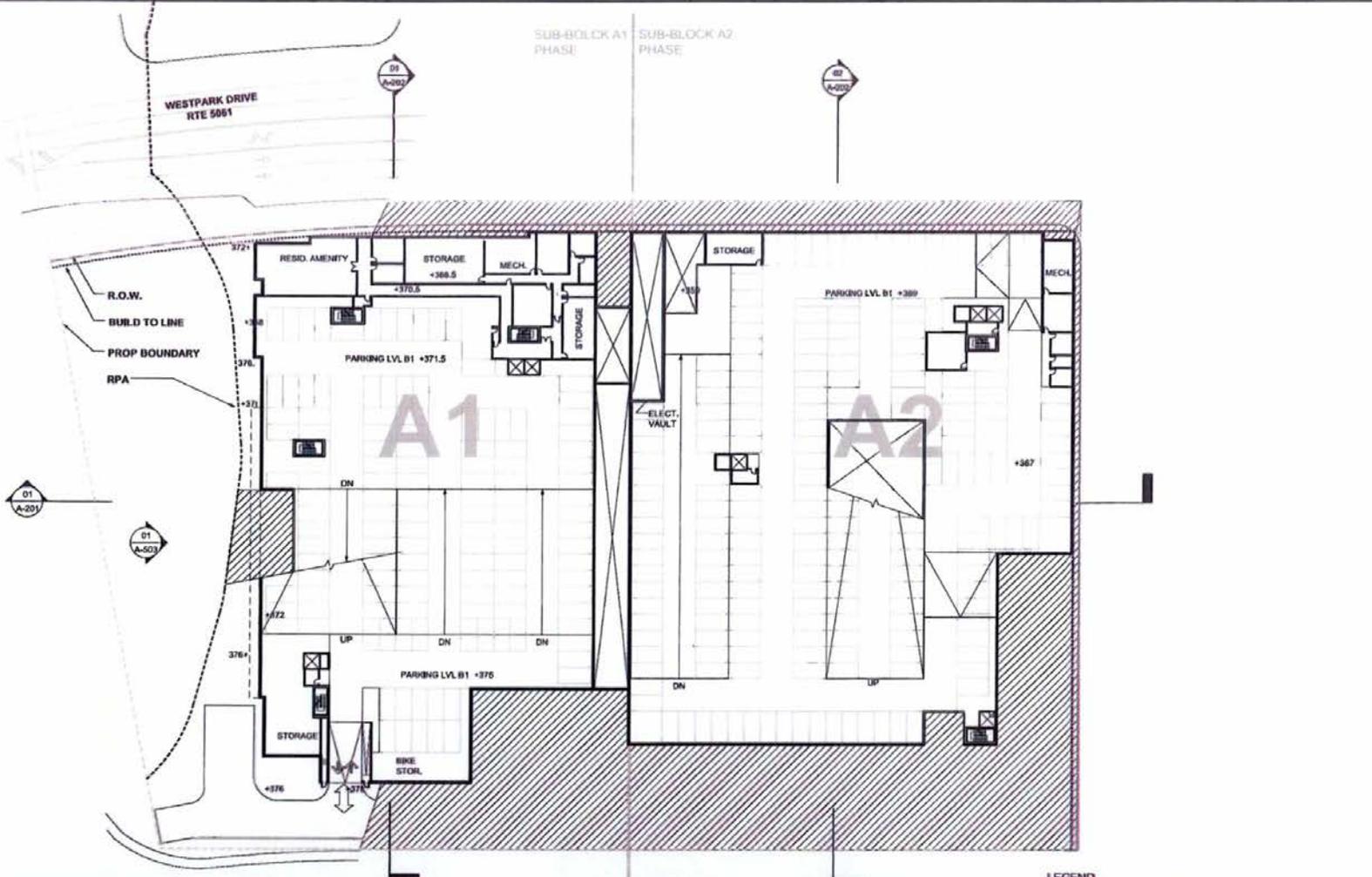
HOME PROPERTIES
 1000 West 10th St.
 Suite 100
 1000 West 10th St.
 Suite 100

Cityline
 PARTNERS
 1000 West 10th St.
 Suite 100

LEVEL B2 FLOOR PLAN
ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-LPR-023-1
 PRINCEDALE DISTRICT - FARMAN COUNTY, VIRGINIA

NO.	DESCRIPTION	DATE
0001	PRELIMINARY CONCEPT	
0002	PRELIMINARY CONCEPT	
0003	PRELIMINARY CONCEPT	
0004	PRELIMINARY CONCEPT	
0005	PRELIMINARY CONCEPT	
0006	PRELIMINARY CONCEPT	
0007	PRELIMINARY CONCEPT	
0008	PRELIMINARY CONCEPT	
0009	PRELIMINARY CONCEPT	
0010	PRELIMINARY CONCEPT	

DATE: DECEMBER 2011
 FILE NO.



- NOTES**
- 1- IT IS ANTICIPATED THAT THIS PROJECT WILL BE BUILT IN TWO PHASES WITH BLOCK A2 BEING BUILT FIRST, FOLLOWED BY BLOCK A1, SUBJECT TO MARKET CONDITIONS. SEE CBL1 FOR PHASING DETAILS.
 - 2- SLAB & ROOF ELEVATIONS, AS INDICATED, MAY VARY BUT WILL NOT EXCEED MAXIMUM HEIGHTS LISTED.
 - 3- CONFIGURATION OF INTERIOR SPACES AS SHOWN ARE CONCEPTUAL & SUBJECT TO FINAL ARCHITECTURAL & ENGINEERING DESIGN, INCLUDING NUMBER, SIZE ALLOCATIONS OF STAIRS, ELEVATORS, AND BLDG. ENTRANCES. FINAL LAYOUTS MAY VARY.
 - 4- ABOVE GRADE BUILDING SETBACKS ARE APPROXIMATE & WILL BE FINALIZED AT SITE PLAN.
 - 5- SEE LANDSCAPE DRAWINGS FOR EXTENT OF ROOF, COURTYARD & STREETSCAPE DESIGN.
 - 6- SEE CIVIL DRAWINGS FOR DWM & STREET DESIGNS & SECTIONS.
 - 7- PARKING SPACE LAYOUT AS SHOWN IS SUBJECT TO MODIFICATIONS. FINAL CONFIGURATION OF PARKINGS IS SUBJECT TO RESIDENTIAL UNIT MIX, FINAL PARKING COUNT, STRUCTURE & MECHANICAL SYSTEM LAYOUT, AND WILL BE FINALIZED AT BUILDING PERMIT.

- LEGEND**
- BLDG FOOTPRINT ABOVE
 - ± SPOT ELEVATION
 - ▶ PEDESTRIAN ENTRY
 - ↔ VEHICULAR ENTRY
 - PROPERTY (R.O.W.) LINE
 - BUILD TO LINE
 - ▨ BELOW GRADE



LEVEL B1 - PARKING PLAN [15] [REVISION] 01 NET A-102

Bowman
 PARKER RODRIGUEZ, INC.
 101 North 19th Street, Suite 200
 Washington, VA 22181
 703.546.8174
 Fax: 703.546.8172
 www.bowmanpr.com

PARKER RODRIGUEZ, INC.
 101 North 19th Street, Suite 200
 Washington, VA 22181
 703.546.8174
 Fax: 703.546.8172
 www.bowmanpr.com

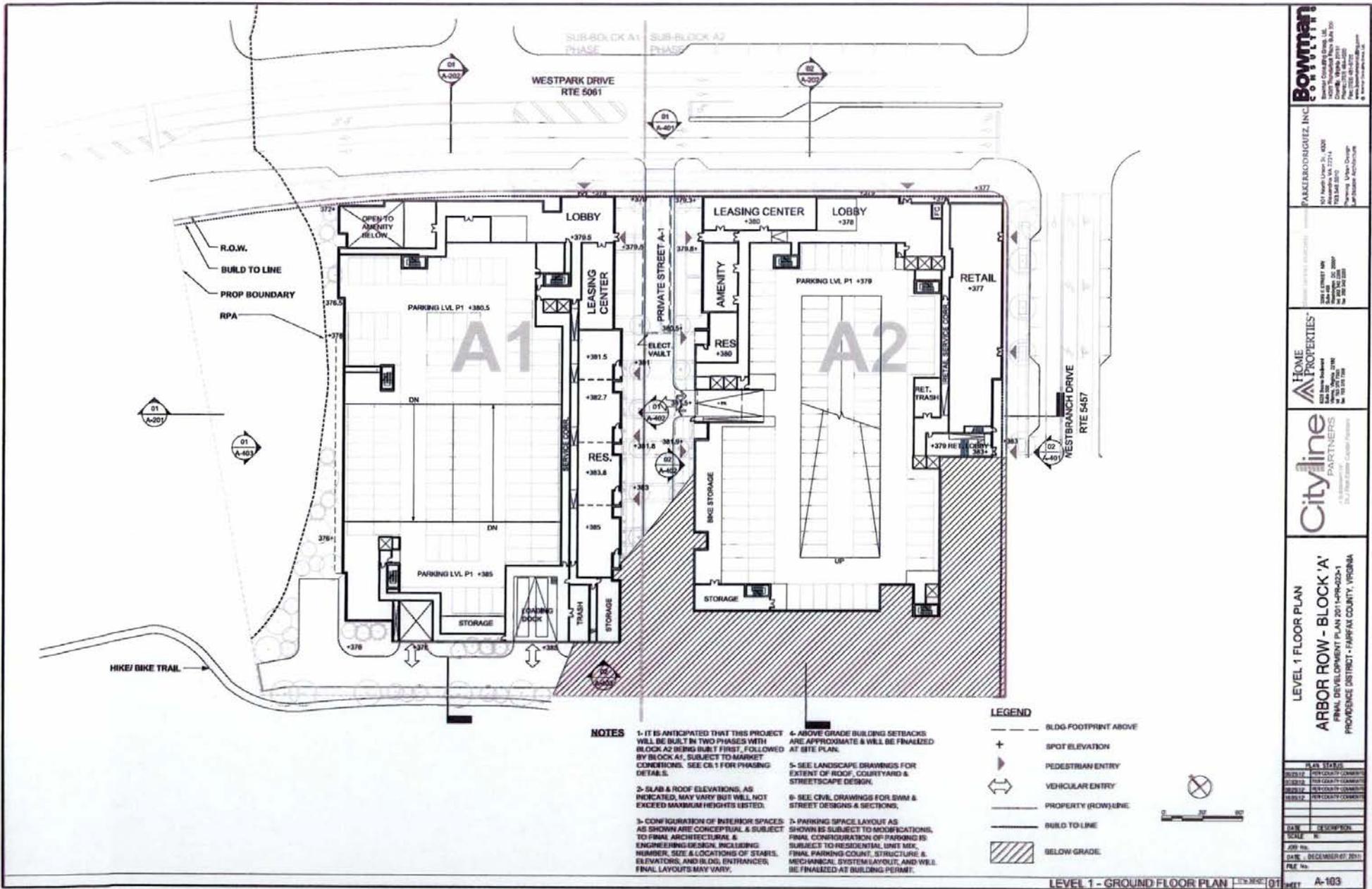
HOME PROPERTIES™
 101 North 19th Street, Suite 200
 Washington, VA 22181
 703.546.8174
 Fax: 703.546.8172
 www.bowmanpr.com

Cityline
 101 North 19th Street, Suite 200
 Washington, VA 22181
 703.546.8174
 Fax: 703.546.8172
 www.bowmanpr.com

ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-PR-025-1
 PROVIDENCE DISTRICT - FARMAX COUNTY, VIRGINIA

LEVEL B1 FLOOR PLAN
 ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-PR-025-1
 PROVIDENCE DISTRICT - FARMAX COUNTY, VIRGINIA

NO.	DESCRIPTION	DATE
01	ISSUED FOR PERMIT	12/15/11
02	REVISION	
03	REVISION	
04	REVISION	
05	REVISION	



NOTES

- 1- IT IS ANTICIPATED THAT THIS PROJECT WILL BE BUILT IN TWO PHASES WITH PHASE A1 BEING BUILT FIRST, FOLLOWED BY BLOCK A2, SUBJECT TO MARKET CONDITIONS. SEE C&I FOR PHASING DETAILS.
- 2- SLAB & ROOF ELEVATIONS, AS INDICATED, MAY VARY BUT WILL NOT EXCEED MAXIMUM HEIGHTS LISTED.
- 3- CONFIGURATION OF INTERIOR SPACES AS SHOWN ARE CONCEPTUAL & SUBJECT TO FINAL ARCHITECTURAL & ENGINEERING DESIGN, INCLUDING NUMBER, SIZE & LOCATIONS OF STAIRS, ELEVATORS, AND BLDG. ENTRANCES. FINAL LAYOUTS MAY VARY.
- 4- ABOVE GRADE BUILDING SETBACKS ARE APPROXIMATE & WILL BE FINALIZED AT SITE PLAN.
- 5- SEE LANDSCAPE DRAWINGS FOR EXTENT OF ROOF, COURTYARD & STREETSCAPE DESIGN.
- 6- SEE CIVIL DRAWINGS FOR SWM & STREET DESIGN & SECTIONS.
- 7- PARKING SPACE LAYOUT AS SHOWN IS SUBJECT TO MODIFICATIONS. FINAL CONFIGURATION OF PARKING IS SUBJECT TO RESIDENTIAL UNIT MIX, FINAL PARKING COUNT, STRUCTURE & MECHANICAL SYSTEM LAYOUT, AND WILL BE FINALIZED AT BUILDING PERMIT.

LEGEND

- BLDG FOOTPRINT ABOVE
- SPOT ELEVATION
- ▶ PEDESTRIAN ENTRY
- ↔ VEHICULAR ENTRY
- PROPERTY (ROW) LINE
- BUILD TO LINE
- ▨ BELOW GRADE



LEVEL 1 - GROUND FLOOR PLAN | SCALE: 1/8"=1'-0" | SHEET A-103

Bowman
 PARKER RODRIGUEZ, INC.
 401 North Union St., #200
 Durham, NC 27701
 Phone: 919.487.1111
 Fax: 919.487.1112
 www.bowmanpr.com

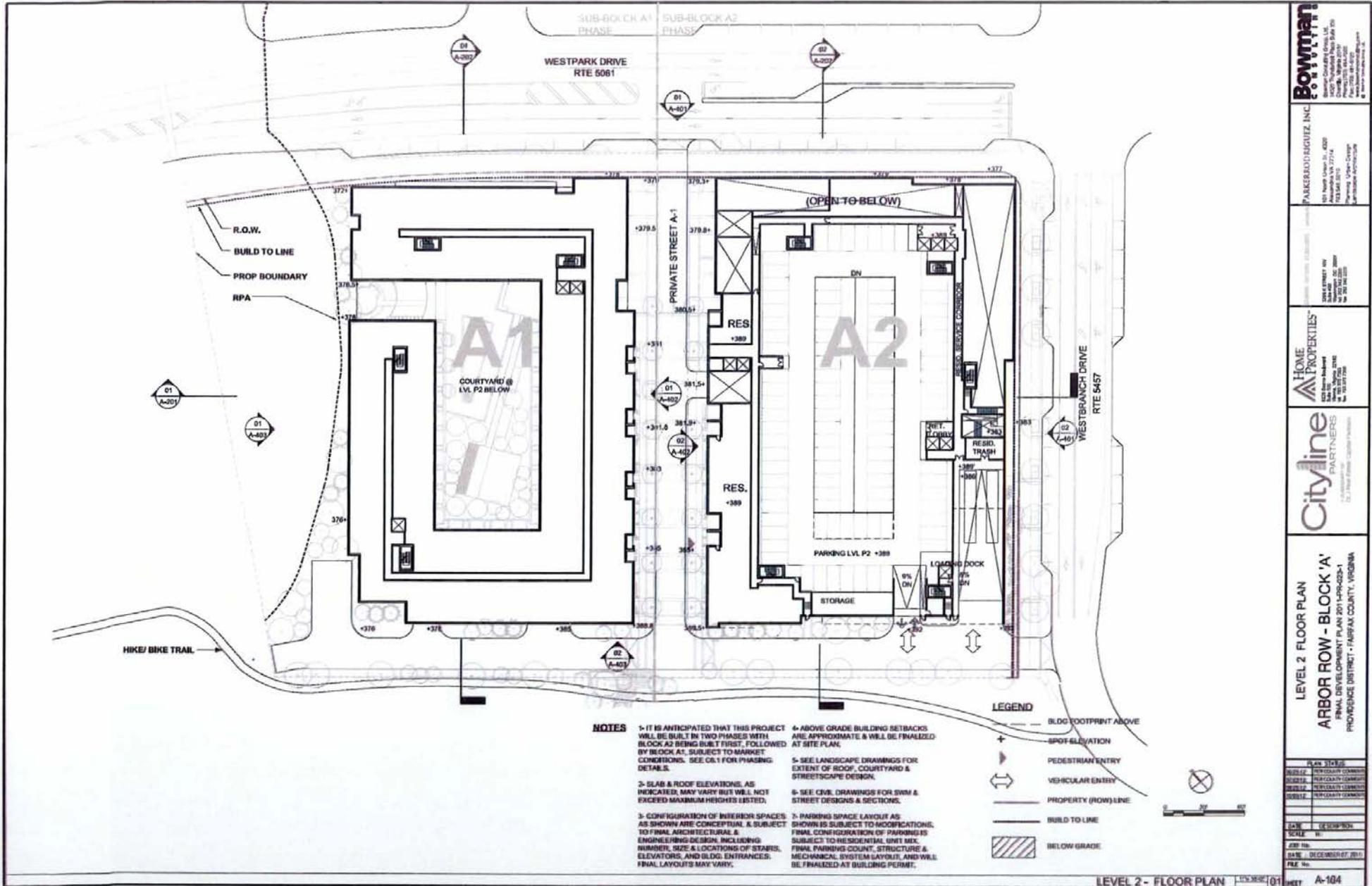
HOME PROPERTIES PARTNERS
 10000 Old Forest Road
 Suite 100
 Raleigh, NC 27617
 Phone: 919.487.1111
 Fax: 919.487.1112
 www.homeproperties.com

Cityline PARTNERS
 200 North Fayette Street
 Suite 100
 Raleigh, NC 27601
 Phone: 919.487.1111
 Fax: 919.487.1112
 www.cityline.com

PLAN STACK

000102	PRELIMINARY CONCEPT
000103	PRELIMINARY CONCEPT
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000199	PRELIMINARY CONCEPT
000200	PRELIMINARY CONCEPT

DATE: DECEMBER 01, 2011
 FILE No.



LEVEL 2 - FLOOR PLAN [REVISED] 01 SHEET A-104

PLAN CHECKS

DESIGN	INTER-COUNTY COMMUNITY DEVELOPMENT
PERMIT	INTER-COUNTY COMMUNITY DEVELOPMENT
REVIEW	INTER-COUNTY COMMUNITY DEVELOPMENT
DATE	DECEMBER 17, 2011

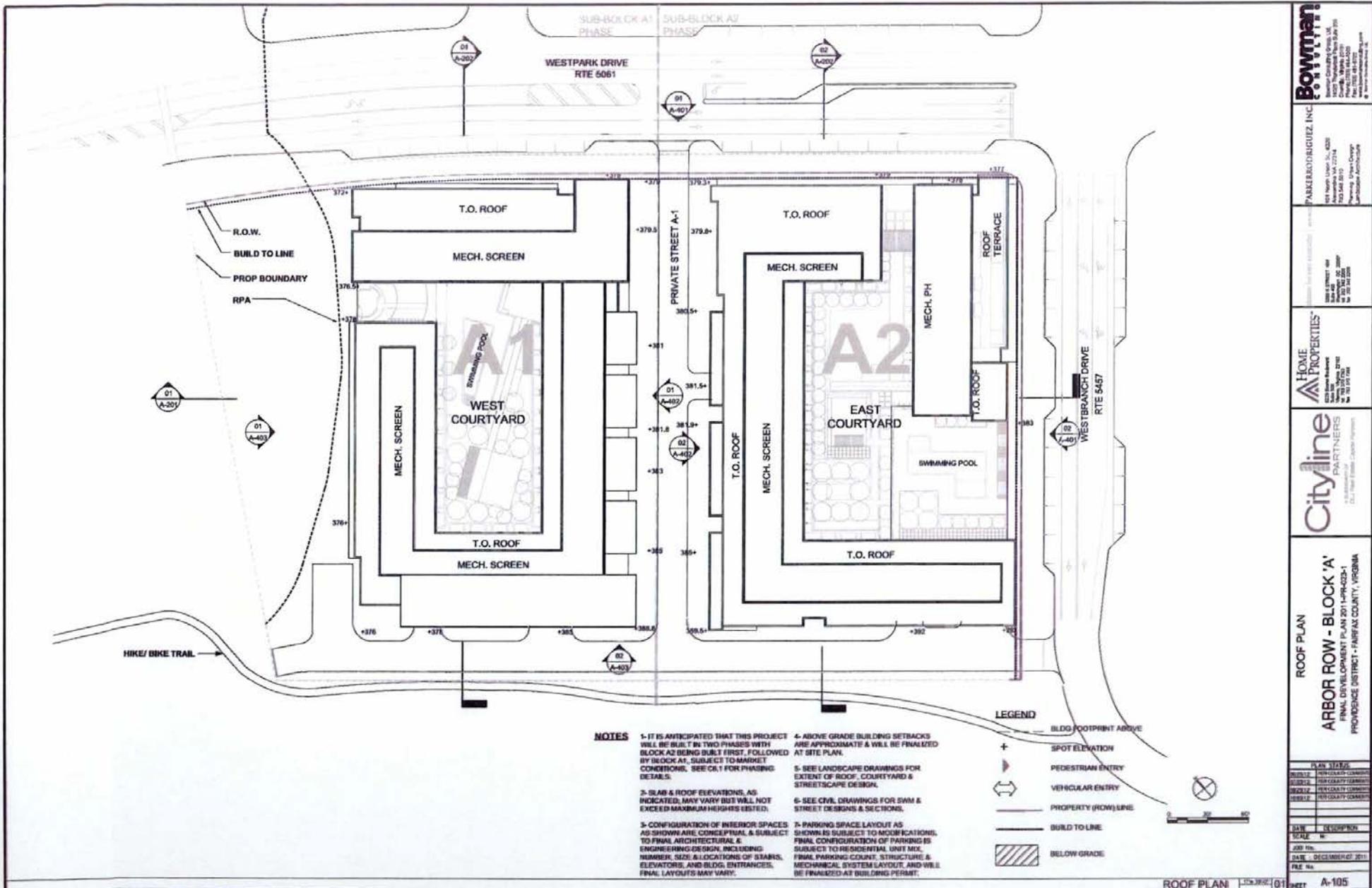
DATE: DECEMBER 17, 2011
FILE No.

Cityline PARTNERS
121 West Franklin - Capital Building

HOME PROPERTIES
121 West Franklin - Capital Building

PARIBESBOUTSGUIZ, INC.
101 North Green St., #200
Chapel Hill, NC 27514
Phone: 919.966.2200
Fax: 919.966.2201
www.paribesboutsquiz.com

Bowman
Bowman Group, Inc., 400
Chapel Hill, NC 27514
Phone: 919.966.2200
Fax: 919.966.2201
www.bowman.com



NOTES

- 1- IT IS ANTICIPATED THAT THIS PROJECT WILL BE BUILT IN TWO PHASES WITH BLOCK A2 BEING BUILT FIRST, FOLLOWED BY BLOCK A1, SUBJECT TO MARKET CONDITIONS. SEE CA-1 FOR PARKING DETAILS.
- 2- SLAB & ROOF ELEVATIONS, AS INDICATED, MAY VARY BUT WILL NOT EXCEED MAXIMUM HEIGHTS LISTED.
- 3- CONFIGURATION OF INTERIOR SPACES AS SHOWN ARE CONCEPTUAL & SUBJECT TO FINAL ARCHITECTURAL & ENGINEERING DESIGN, INCLUDING NUMBER, SIZE, ALLOCATIONS OF STAIRS, ELEVATORS, AND BLDG. ENTRANCES. FINAL LAYOUTS MAY VARY.
- 4- ABOVE GRADE BUILDING SETBACKS ARE APPROXIMATE & WILL BE FINALIZED AT SITE PLAN.
- 5- SEE LANDSCAPE DRAWINGS FOR EXTENT OF ROOF, COURTYARD & STREETSCAPE DESIGN.
- 6- SEE CIVIL DRAWINGS FOR SWM & STREET DESIGNS & SECTIONS.
- 7- PARKING SPACE LAYOUT AS SHOWN IS SUBJECT TO MODIFICATIONS. FINAL CONFIGURATION OF PARKING IS SUBJECT TO RESIDENTIAL UNIT MIX, FINAL PARKING COUNT, STRUCTURE & MECHANICAL SYSTEM LAYOUT, AND WILL BE FINALIZED AT BUILDING PERMIT.

LEGEND

- BLDG FOOTPRINT ABOVE
- + SPOT ELEVATION
- ▶ PEDESTRIAN ENTRY
- ↔ VEHICULAR ENTRY
- PROPERTY (R.O.W.) LINE
- BUILD TO LINE
- ▨ BELOW GRADE



ROOF PLAN

ARBOR ROW - BLOCK 'A'

FINAL DEVELOPMENT PLAN 2011-HP-023-1
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

<p>PLAN STATUS</p> <p>DESIGNED BY: []</p> <p>DRAWN BY: []</p> <p>CHECKED BY: []</p> <p>DATE: []</p>	<p>DATE DESCRIPTION</p> <p>SCALE: []</p> <p>DATE: []</p> <p>FILE NO: []</p>
--	---

Cityline
PARTNERS

Cityline Properties, LLC
10000 Old Dominion Blvd, Suite 200
Richmond, VA 23234
Tel: 804.770.1200
Fax: 804.770.1201

HOME PROPERTIES

Home Properties, LLC
10000 Old Dominion Blvd, Suite 200
Richmond, VA 23234
Tel: 804.770.1200
Fax: 804.770.1201

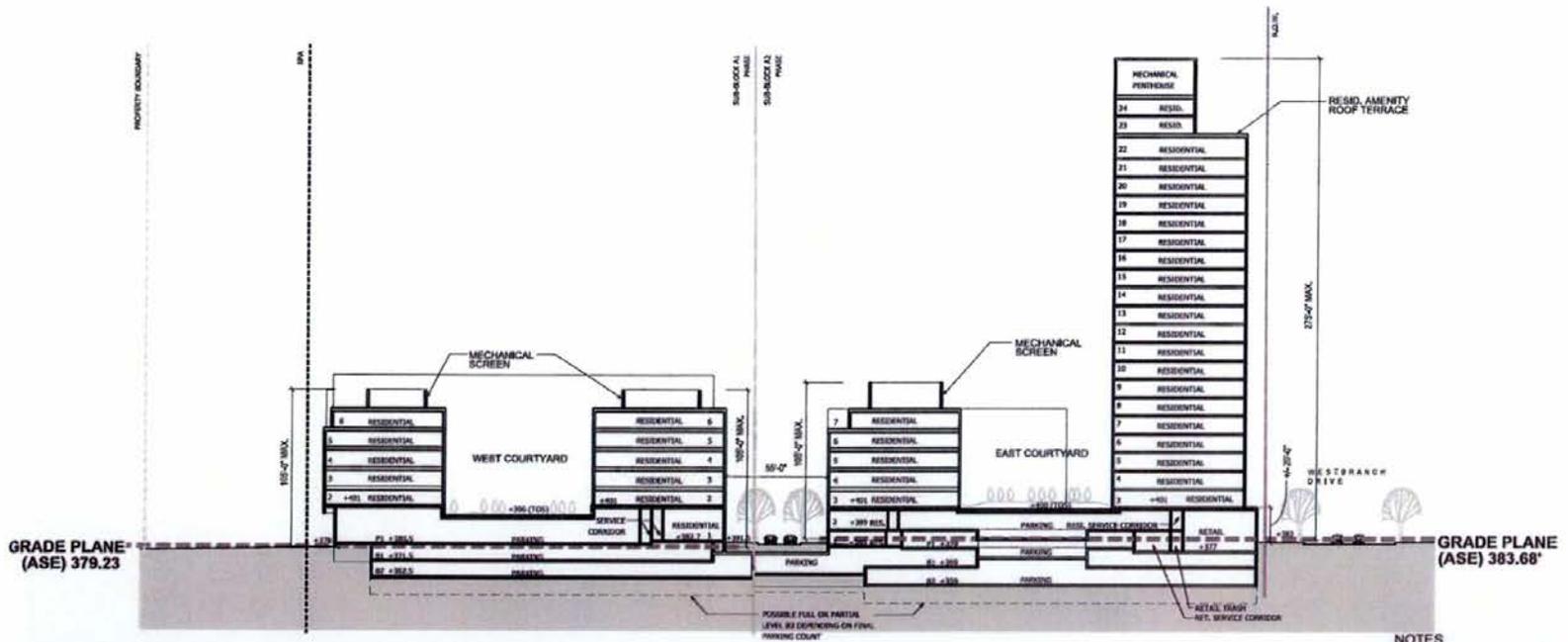
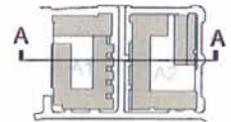
PARKER RODRIGUEZ, INC.

100 North Lakeside Blvd, Suite 200
Arlington, VA 22204
Tel: 703.542.8100
Fax: 703.542.8101

Bowman

100 North Lakeside Blvd, Suite 200
Arlington, VA 22204
Tel: 703.542.8100
Fax: 703.542.8101

ROOF PLAN | 153.0002 | 01 | SHEET | A-105



NOTES

1. SITE SECTIONS PRESENTED ON THIS SHEET ARE PROVIDED TO AID IN THE UNDERSTANDING OF GRADE CHANGE ACROSS THE SUBJECT PROPERTY & THE RELATIONSHIP OF PROPOSED BUILDINGS & OTHER USES, BUILDING DESIGN AND FINAL GRADING ARE SUBJECT TO CHANGE IN FINAL ENGINEERING & ARCHITECTURAL DESIGN.
2. GRADE PLANE AVERAGE SITE ELEVATION MAY VARY SLIGHTLY BASED ON FINAL SITE GRADING.
3. NUMBER OF FLOORS MAY VARY, BUT SHALL NOT EXCEED MAXIMUM BUILDING HEIGHTS LISTED AND SHALL BE IN CONFORMANCE WITH CODE & ZONING REQUIREMENTS.
4. PARKING CONFIGURATION & NUMBER OF PARKING LEVELS MAY VARY DEPENDING ON UNIT MIX, FINAL PARKING COURT, STRUCTURE & MECH. SYSTEMS LAYOUT, AND WILL BE FINALIZED AT TIME OF BUILDING PERMIT.

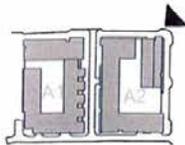
Bowman
 PARKERBRODRIGUIZ, INC.
 101 North Union St., 400
 Providence, RI 02903
 Phone: 401.863.2700
 Fax: 401.863.2701
 www.bowmanpbri.com

HOME PROPERTIES
 1000 Main Street
 Providence, RI 02903
 Phone: 401.863.2700
 Fax: 401.863.2701
 www.homeproperties.com

Cityline PARTNERS
 1000 Main Street
 Providence, RI 02903
 Phone: 401.863.2700
 Fax: 401.863.2701
 www.citylinepartners.com

EAST-WEST SECTION
ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-PR-023-1
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

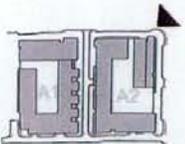
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TOWER CORNER VIEW AT WESPARK AND WESTBRANCH DRIVE - 02

NOTES

- 1- ARCHITECTURAL ELEVATIONS SHOWN ARE SUBJECT TO MODIFICATIONS, PROVIDED THAT GENERAL DESIGN STRATEGY, QUALITY & CHARACTERISTICS OF THE PROJECT ARE MAINTAINED & IN SUBSTANTIAL CONFORMANCE WITH THE CDP. BUILDING MATERIALS & COLORS, & THE EXACT LOCATION, SHAPE & SIZE OF WINDOWS & BALCONIES ARE SUBJECT TO ADJUSTMENT & REFINEMENT WITH FINAL ENGINEERING & ARCHITECTURAL DESIGN SO LONG AS THEY REMAIN IN SUBSTANTIAL CONFORMANCE WITH CDP.
- 2- THE FINAL ELEVATIONS MAY VARY IN GLASS AREA. GLASS MAY BE SUBSTITUTED FOR ARCHITECTURAL SYSTEM PANEL, MASONRY OR OTHER MATERIALS, HOWEVER, THE GROUND FLOOR GLAZING SHALL BE MAINTAINED SUCH THAT PEDESTRIAN CORRIDOR STANDARDS FOR GLAZING ARE MET IN COMPLIANCE WITH THE PROFFERS.



ENLARGED VIEW - TOWER CORNER - 01

Bowman
 Bowmar Consulting Group, LLC
 100 North Lamar Blvd., Suite 200
 Charlottesville, VA 22902
 Phone: 803.555.1234
 Fax: 803.555.1235
 www.bowmarconsulting.com

PARKER RODRIGUEZ, INC.
 100 North Lamar Blvd., Suite 200
 Charlottesville, VA 22902
 Phone: 803.555.1234
 Fax: 803.555.1235
 www.parkerrodriguez.com

HOME PROPERTIES
 100 North Lamar Blvd., Suite 200
 Charlottesville, VA 22902
 Phone: 803.555.1234
 Fax: 803.555.1235
 www.homeproperties.com

Cityline PARTNERS
 100 North Lamar Blvd., Suite 200
 Charlottesville, VA 22902
 Phone: 803.555.1234
 Fax: 803.555.1235
 www.citylinepartners.com

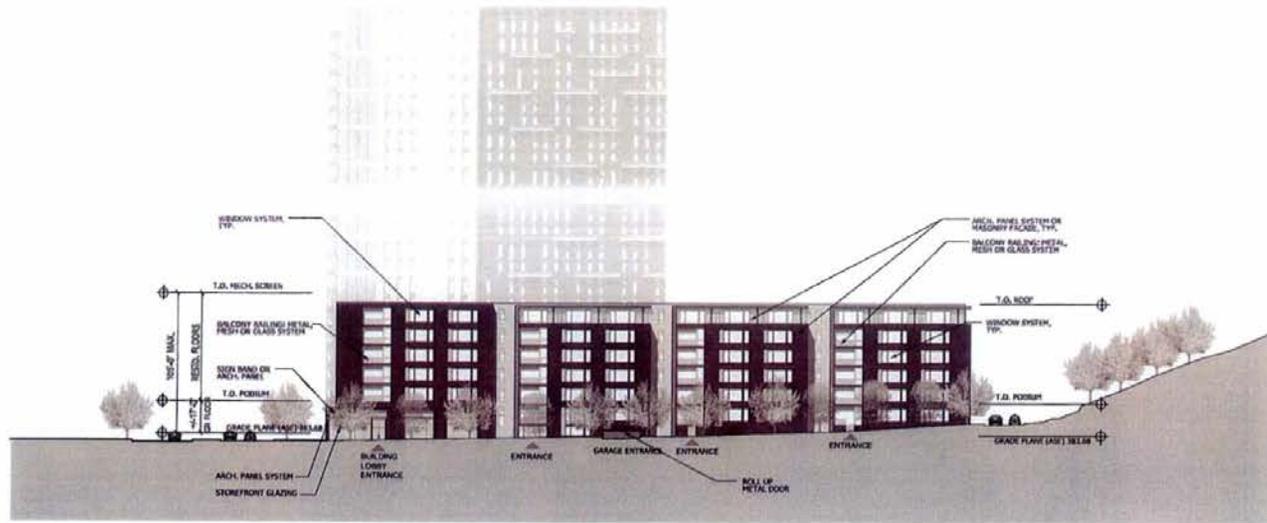
ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2014-PRD-03-1
 PROVIDENCE DISTRICT - FAYETTE COUNTY, VIRGINIA

SITE PERSPECTIVES

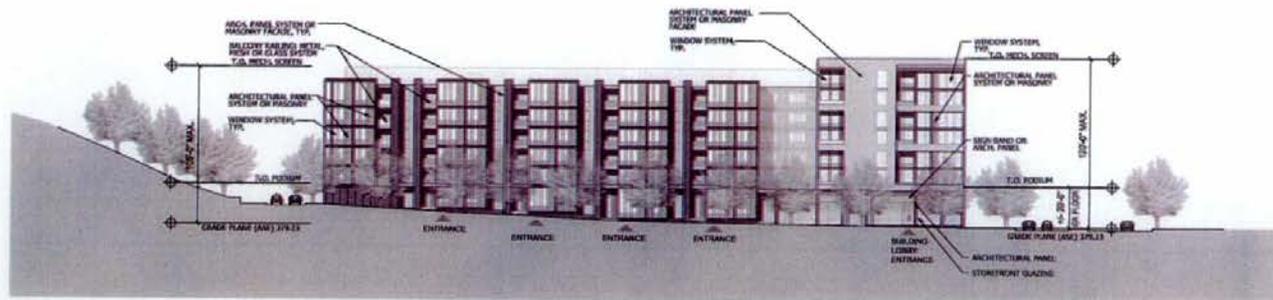
PLAN STATUS	DATE	DESCRIPTION
0101.02	12/15/14	PROVIDENCE DISTRICT
0101.03	12/15/14	PROVIDENCE DISTRICT
0101.04	12/15/14	PROVIDENCE DISTRICT
0101.05	12/15/14	PROVIDENCE DISTRICT
0101.06	12/15/14	PROVIDENCE DISTRICT
0101.07	12/15/14	PROVIDENCE DISTRICT
0101.08	12/15/14	PROVIDENCE DISTRICT
0101.09	12/15/14	PROVIDENCE DISTRICT
0101.10	12/15/14	PROVIDENCE DISTRICT
0101.11	12/15/14	PROVIDENCE DISTRICT
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0101.16	12/15/14	PROVIDENCE DISTRICT
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0101.18	12/15/14	PROVIDENCE DISTRICT
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0101.47	12/15/14	PROVIDENCE DISTRICT
0101.48	12/15/14	PROVIDENCE DISTRICT
0101.49	12/15/14	PROVIDENCE DISTRICT
0101.50	12/15/14	PROVIDENCE DISTRICT

PLAN STATUS	DATE	DESCRIPTION
0101.02	12/15/14	PROVIDENCE DISTRICT
0101.03	12/15/14	PROVIDENCE DISTRICT
0101.04	12/15/14	PROVIDENCE DISTRICT
0101.05	12/15/14	PROVIDENCE DISTRICT
0101.06	12/15/14	PROVIDENCE DISTRICT
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0101.45	12/15/14	PROVIDENCE DISTRICT
0101.46	12/15/14	PROVIDENCE DISTRICT
0101.47	12/15/14	PROVIDENCE DISTRICT
0101.48	12/15/14	PROVIDENCE DISTRICT
0101.49	12/15/14	PROVIDENCE DISTRICT
0101.50	12/15/14	PROVIDENCE DISTRICT

A-301



INTERIOR STREET EAST ELEVATION 1'-0"=1'-0" 01



INTERIOR STREET WEST ELEVATION 1'-0"=1'-0" 01

NOTES

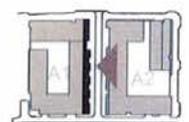
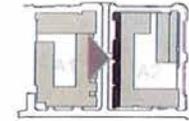
1. ARCHITECTURAL ELEVATIONS SHOWN ARE SUBJECT TO MODIFICATIONS, PROVIDED THAT GENERAL DESIGN STRATEGY, QUALITY & CHARACTERISTICS OF THE PROJECT ARE MAINTAINED & IN SUBSTANTIAL CONFORMANCE WITH THE CDP. BUILDING MATERIALS & COLORS, & THE EXACT LOCATION, SHAPE & SIZE OF WINDOWS & BALCONIES ARE SUBJECT TO ADJUSTMENT & REFINEMENT WITH FINAL ENGINEERING & ARCHITECTURAL DESIGN SO LONG AS THEY REMAIN IN SUBSTANTIAL CONFORMANCE WITH CDP.

2. THE FINAL ELEVATIONS MAY VARY IN GLASS AREA. GLASS MAY BE SUBSTITUTED FOR ARCHITECTURAL PANEL SYSTEM, MASONRY OR OTHER MATERIALS. HOWEVER, THE GROUND FLOOR GLAZING SHALL BE MAINTAINED SUCH THAT PEDESTRIAN CONDUIT STANDARDS FOR GLAZING ARE MET IN COMPLIANCE WITH THE PROPPERS.

MATERIALS NOTES

ARCHITECTURAL PANEL SYSTEM REFERS TO ONE OF THE FOLLOWING POSSIBLE MATERIALS:

1- METAL PANEL SYSTEM
2- FIBER CEMENT BOARD PANELING SYSTEM



Boylan
 PARKER RODRIGUEZ, INC.
 1001 South Lakes Blvd., #200
 Alexandria, VA 22304
 703.548.2010
 Planning, Urban Design
 Architecture

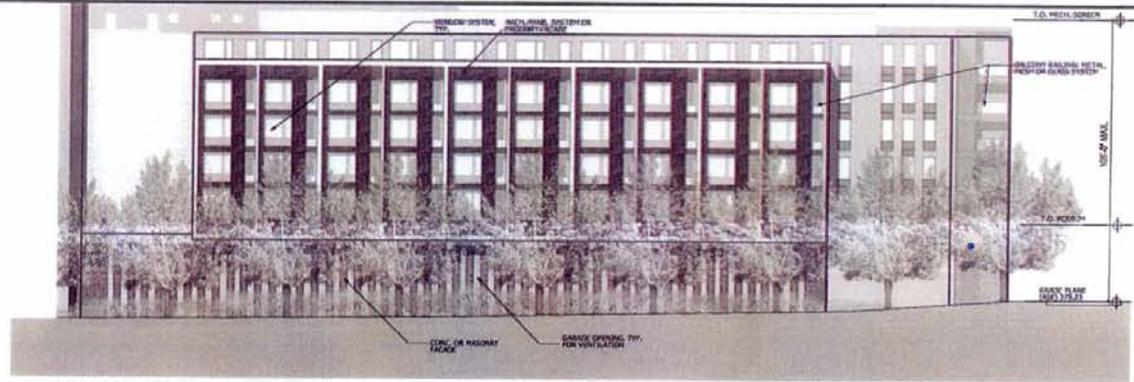
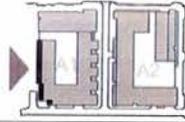
HOME PROPERTIES
 1001 South Lakes Blvd., #200
 Alexandria, VA 22304
 703.548.2010
 Planning, Urban Design
 Architecture

Cityline PARTNERS
 1001 South Lakes Blvd., #200
 Alexandria, VA 22304
 703.548.2010
 Planning, Urban Design
 Architecture

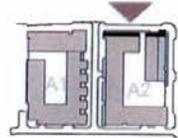
BUILDING ELEVATIONS
ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-PR-028-1
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

NO.	DATE	DESCRIPTION
01	12/07/2011	ISSUED FOR PERMITS
02	12/07/2011	REVISED PER CITY COMMENTS
03	12/07/2011	REVISED PER CITY COMMENTS
04	12/07/2011	REVISED PER CITY COMMENTS

TITLE: BUILDING ELEVATIONS
 SCALE: N
 JOB NO.:
 DATE: DECEMBER 07, 2011
 FILE NO.:
 MET A-402



ENLARGED BASE - TOWNHOUSE WALK-UP UNITS | SCALE: 1/8\"/>



ENLARGED BASE - NORTH ELEVATION OF A2 GROUND FLOOR | SCALE: 1/8\"/>

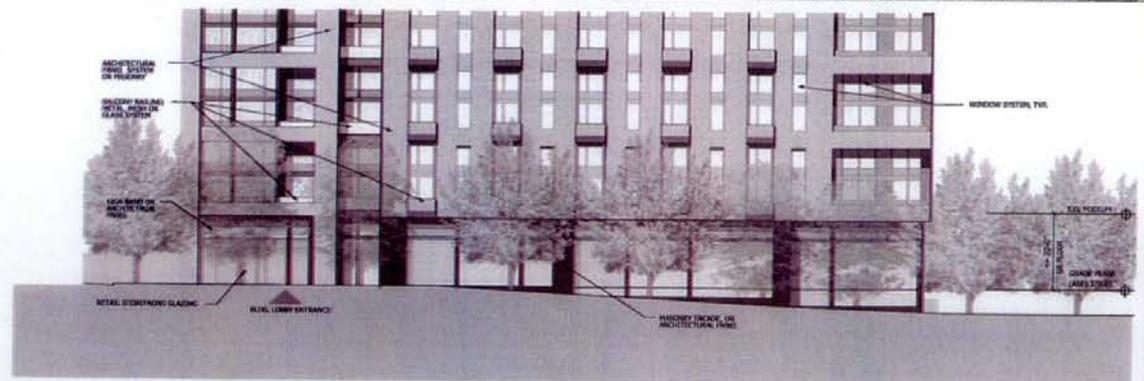
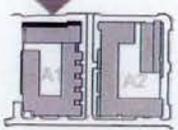
NOTES

1. ARCHITECTURAL ELEVATIONS SHOWN ARE SUBJECT TO MODIFICATIONS PROVIDED THAT GENERAL DESIGN STRATEGY, QUALITY & CHARACTERISTICS OF THE PROJECT ARE MAINTAINED & IN SUBSTANTIAL CONFORMANCE WITH THE CDP. BUILDING MATERIALS & COLORS, & THE EXACT LOCATION, SHAPE & SIZE OF WINDOWS & BALCONIES ARE SUBJECT TO ADJUSTMENT & REFINEMENT WITH FINAL ENGINEERING & ARCHITECTURAL DESIGN SO LONG AS THEY REMAIN IN SUBSTANTIAL CONFORMANCE WITH CDP.
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MATERIALS NOTES

ARCHITECTURAL PANEL SYSTEM REFERS TO ONE OF THE FOLLOWING POSSIBLE MATERIALS:

1. METAL PANEL SYSTEM
2. FIBER CEMENT BOARD PANELING SYSTEM



ENLARGED BASE - NORTH ELEVATION OF A1 GROUND FLOOR | SCALE: 1/8\"/>

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 1400 North 17th Street, Suite 200
 Arlington, VA 22209
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 Fax: 703.841.8223
 www.bowmanconsultants.com

PARKEBRODIGNOZZI INC.
 1911 North Lamar St. #200
 Alexandria, VA 22304
 Phone: 703.841.8222
 Fax: 703.841.8223
 www.parkebrodignozzi.com

HOME PROPERTIES
 1000 North 17th Street, Suite 200
 Arlington, VA 22209
 Phone: 703.841.8222
 Fax: 703.841.8223
 www.homeproperties.com

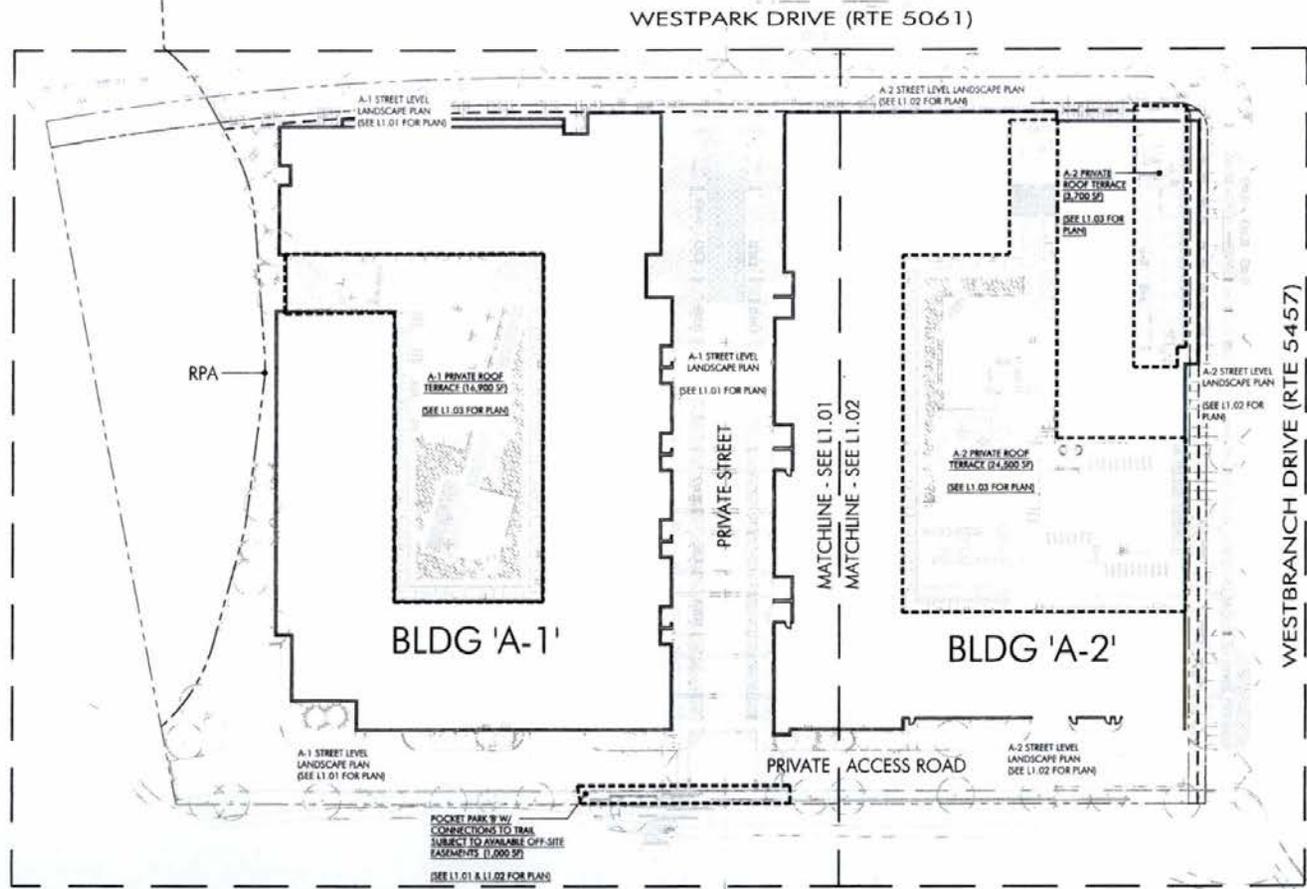
Cityline PARTNERS
 1000 North 17th Street, Suite 200
 Arlington, VA 22209
 Phone: 703.841.8222
 Fax: 703.841.8223
 www.citylinepartners.com

ENLARGED BUILDING ELEVATIONS
ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2014-PR-023-1
 PROVIDENCE DISTRICT - FARRAX COUNTY, VIRGINIA

NO.	DESCRIPTION
01	PRELIMINARY
02	FOR QUALITY CONTROL
03	FOR QUALITY CONTROL
04	FOR QUALITY CONTROL
05	FOR QUALITY CONTROL

DATE	12/07/2014
FILE NO.	A-404

- LANDSCAPE NOTES:
1. THE PROPOSED LANDSCAPE WILL BE USED TO MEET THE MINIMUM TREE COVER REQUIREMENTS. LOCATIONS, SPECIES AND QUANTITIES MAY BE ADJUSTED WITH FINAL DESIGN.
 2. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED AT SITE PLAN.
 3. REFER TO SHEET L3.01 FOR PLANT SPECIES SCHEDULE.



THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.



REFERENCE LANDSCAPE PLAN
ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-PR-023-1
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS:
 01/25/11 PER COUNTY COMMENTS
 07/22/11 PER COUNTY COMMENTS
 08/25/11 PER COUNTY COMMENTS
 09/01/11 PER COUNTY COMMENTS

DATE	DESCRIPTION
09/01/11	ISSUED
DATE	DECEMBER 1, 2011
FILE No.	

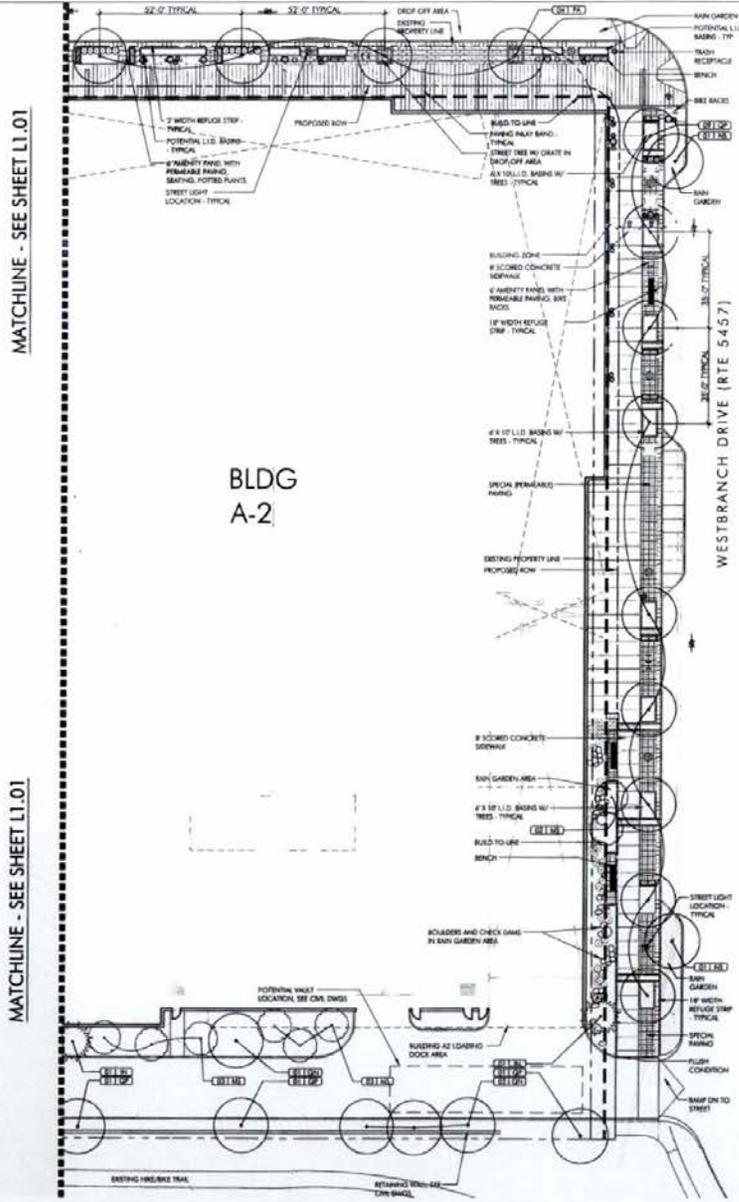
SHEET **L0.02**

Cityline PARTNERS
 a subsidiary of
 CLU Real Estate Capital Partners

HOME PROPERTIES
 1000 N. ...
 ...
 ...

PARKER RODRIGUEZ, INC.
 101 ...
 ...
 ...

Bowman
 1000 ...
 ...
 ...



- LANDSCAPE NOTES**
1. THE PROPOSED LANDSCAPE WILL BE USED TO MEET THE MINIMUM TREE COVER REQUIREMENTS. LOCATIONS, SPECIES AND QUANTITIES MAY BE ADJUSTED WITH FINAL DESIGN.
 2. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED AT SITE PLAN.
 3. ALL STREET LEVEL TREES ARE PLANTED ON GRADE UNLESS OTHERWISE NOTED.
 4. REFER TO SHEET L3.01 FOR PLANT SPECIES SCHEDULE.
 5. REFER TO SHEETS L3.01/2 FOR REPRESENTATIVE FURNISHINGS AND DESIGN DETAILS.

THE PLAN AND IMAGERY MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.



PLAN STATUS

06/20/17	PER COUNTY COMMENTS
07/27/17	PER COUNTY COMMENTS
08/07/17	PER COUNTY COMMENTS
08/08/17	PER COUNTY COMMENTS
08/09/17	PER COUNTY COMMENTS

DATE DESCRIPTION

SCALE	1/4" = 30'-0"
JOB No.	
DATE	DECEMBER 7, 2011
FILE No.	

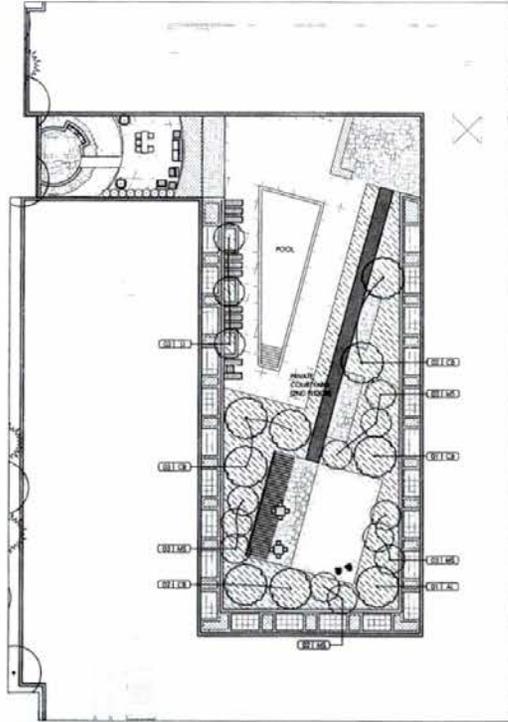
SHEET L1.02

Cityline PARTNERS
A subsidiary of
Cityline Properties, General Partners

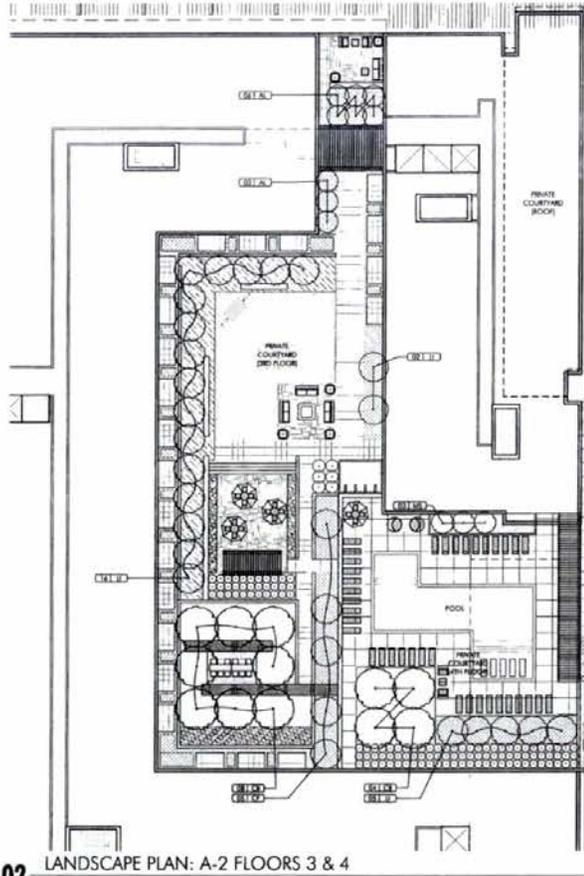
HOME PROPERTIES
101 North Liberty St., #200
Cherry Hill, NJ 08003
Tel: 856.381.1000
Fax: 856.381.1001

PARKER RODRIGUEZ, INC.
101 North Liberty St., #200
Cherry Hill, NJ 08003
Tel: 856.381.1000
Fax: 856.381.1001

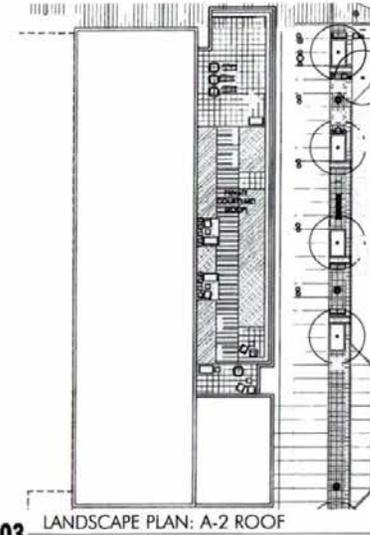
Bowman CONSULTANTS
Bowman Consulting Group, LLC
101 North Liberty St., #200
Cherry Hill, NJ 08003
Tel: 856.381.1000
Fax: 856.381.1001



01 LANDSCAPE PLAN: A-1 FLOOR 2
SCALE: 1" = 20'-0"



02 LANDSCAPE PLAN: A-2 FLOORS 3 & 4
SCALE: 1" = 20'-0"



03 LANDSCAPE PLAN: A-2 ROOF
SCALE: 1" = 20'-0"

LANDSCAPE NOTES:

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2. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE FINAL LOCATIONS TO BE DETERMINED AT SITE PLAN.
3. REFER TO SHEET L3 01 FOR PLANT SPECIES SCHEDULE

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.



Bowman
 Consulting Group, LLC
 100 North Union St., #200
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 Fax: 757.548.8100
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 100 North Union St., #200
 Chesapeake, Virginia 23030
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 Fax: 757.548.8100
 www.faberrodriguez.com

HOME PROPERTIES
 100 North Union St., #200
 Chesapeake, Virginia 23030
 Phone: 757.548.8100
 Fax: 757.548.8100
 www.homeproperties.com

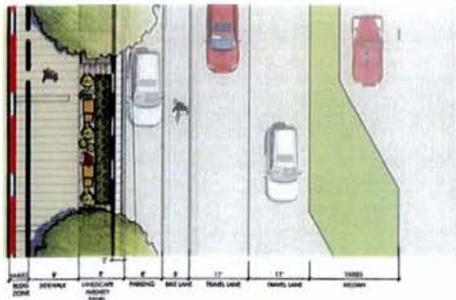
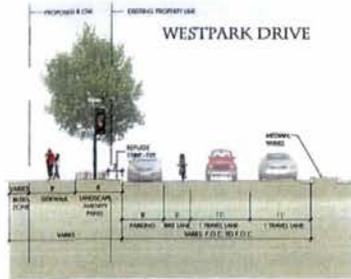
Cityline PARTNERS
 A SUBSIDIARY OF
 ECL FUND GROUP CAPITAL PARTNERS

LANDSCAPE PLAN - ROOF TERRACES
ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-PR-023-1
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

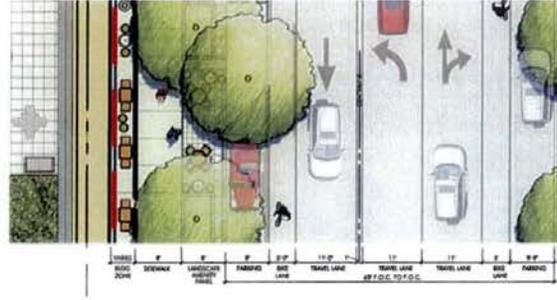
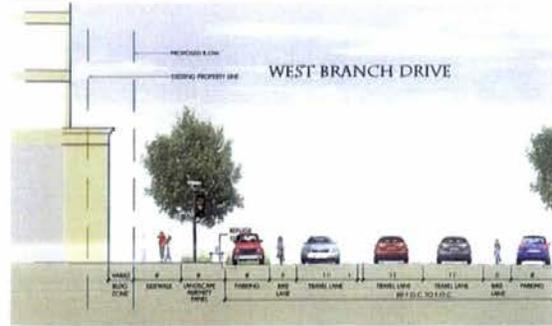
DATE	DESCRIPTION
12/07/11	PER QUANTITY COMMENTS
08/22/11	PER QUANTITY COMMENTS
08/17/11	PER QUANTITY COMMENTS
08/17/11	PER QUANTITY COMMENTS
08/17/11	PER QUANTITY COMMENTS

JOB No. _____
 DATE: DECEMBER 7, 2011
 FILE No. _____

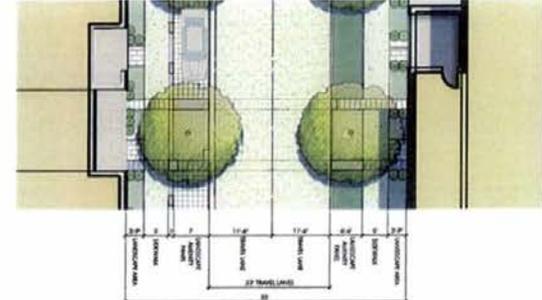
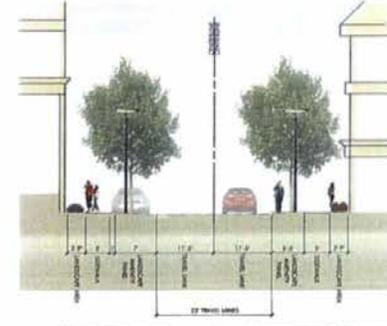
SHEET **L1.03**



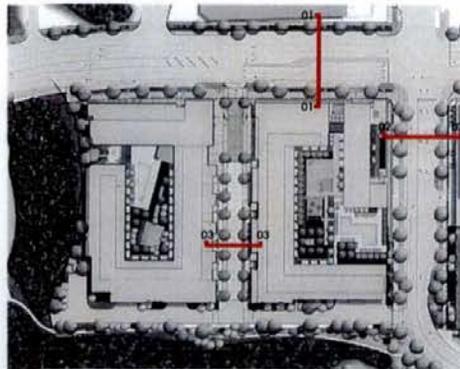
01 WESTPARK DRIVE - STREET SECTION (AVENUE)
SCALE: 1" = 10'-0"



02 WEST BRANCH DRIVE - STREET SECTION (COLLECTOR)
SCALE: 1" = 10'-0"



03 BLOCK 'A' - PRIVATE STREET A-1
SCALE: 1" = 10'-0"



04 KEY PLAN - BLOCK A
SCALE: NTS

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.



Bowman
PAKEMADRIGUEZ, INC.
147 North Jackson St. #100
10001 University Park Lane #200
Dulles, Virginia 20151
Tel: 703.441.2312
Fax: 703.441.2312
www.bowmanpa.com

HOME PROPERTIES PARTNERS
10001 University Park Lane #200
Dulles, Virginia 20151
Tel: 703.441.2312
Fax: 703.441.2312
www.homeproperties.com

Cityline
PARTNERS
A subsidiary of
Cityline Builders, Capital Partners

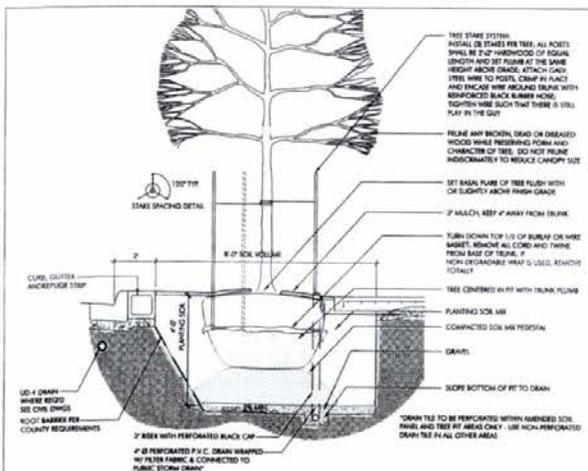
STREET SECTIONS
ARBOR ROW - BLOCK 'A'
FINAL DEVELOPMENT PLAN 2011-PR-025-1
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION	SCALE	BY	AS NOTED
02/25/12	PER COUNTY COMMENTS			
03/23/12	PER COUNTY COMMENTS			
04/23/12	PER COUNTY COMMENTS			
05/01/12	PER COUNTY COMMENTS			

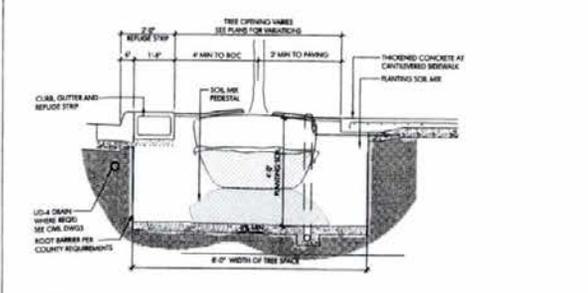
PLAN STATUS

JOB No. _____
DATE: DECEMBER 7, 2011
FILE No. _____

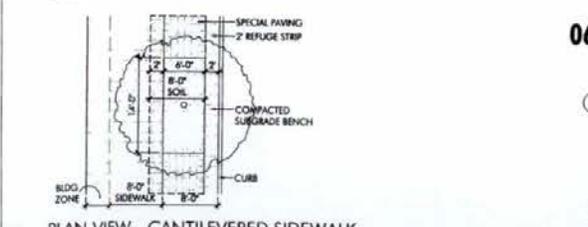
SHEET **L2.02**



01 TREE PLANTING DETAIL - TYPICAL STREET TREE
SCALE: 1/2"=1'-0"



02 TREE PLANTING DETAIL - TREE SOIL BRIDGE
SCALE: 1/2"=1'-0"



03 PLAN VIEW - CANTILEVERED SIDEWALK
SCALE: 1/8"=1'-0"

LANDSCAPE NOTES:

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3. ALL STREET LEVEL TREES ARE PLANTED ON GRADE UNLESS OTHERWISE NOTED.

ARBOR ROW OVERALL CLIP - CANOPY COVERAGE

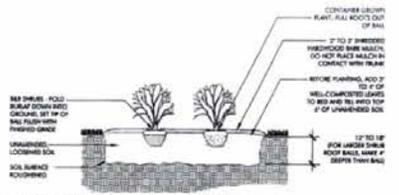
TOTAL 10-YEAR TREE CANOPY (REQ'D)	80,788 sf
TOTAL 10-YEAR TREE CANOPY (PROVIDED)	83,878 sf

ARBOR ROW BLOCK 'A' - CONTRIBUTION TO CANOPY COVERAGE

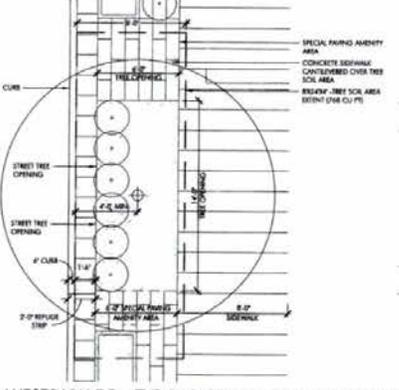
BLOCK 'A' 10-YR TREE CANOPY (PROVIDED)	43,880 sf
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ARBOR ROW BLOCK 'B,C,D,E,F' - CONTRIBUTION TO CANOPY COVERAGE

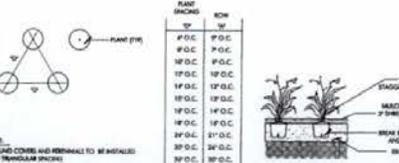
BLOCK 'B,C,D,E,F' 10-YR TREE CANOPY TO BE PROVIDED	27,998 sf
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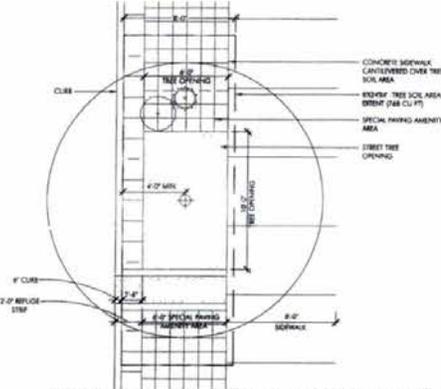
05 SHRUB PLANTING DETAIL
SCALE: 1/2"=1'-0"



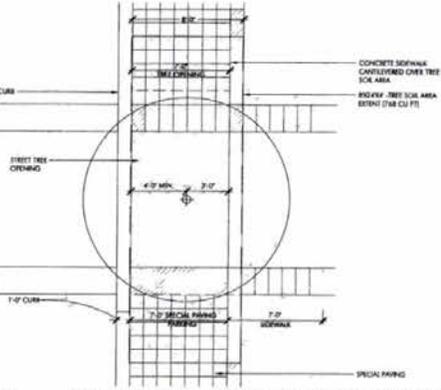
06 WESTPARK DR - TYP PL PLAN DETAIL @ REFUGE STRIP
SCALE: 1/4"=1'-0"



04 GROUND COVER / PERENNIAL PLANTING DETAIL
SCALE: 1/2"=1'-0"



07 WESTBRANCH DR - TYP PL PLAN DETAIL @ CURB
SCALE: 1/4"=1'-0"



08 PRIVATE STREET - TYP PL PLAN DETAIL @ CURB
SCALE: 1/4"=1'-0"

ARBOR ROW BLOCK 'A' - PLANTING LIST & CANOPY COVERAGE

KEY	BOTANICAL NAME	COMMON NAME	QTY.	STOCK SIZE	STOCK TYPE	10-YR TREE CANOPY FT ²	TREE CANOPY REMARKS
Category I Deciduous Trees							
0A	Cornus florida	Flowering Dogwood	8	2" cal.	SA8	75	single leader, full branching, symmetrical
0B	Quercus rubra	Red Oak	17	2" cal.	SA8	1375	single leader, full branching, symmetrical
Category II Deciduous Trees							
0D	Acer spicatum	Spice Maple	34	2" cal.	SA8	100	multi-trunk - 3 stems minimum, full branching
0E	Aralia nudicaulis	Spicebush	24	2" cal.	SA8	100	multi-trunk - 3 stems minimum, full branching
0F	Opuntia basilaris	Cactus	20	2" cal.	SA8	125	single leader, full branching, symmetrical
0G	Hamamelis virginica	Witch Hamamelis	32	2" cal.	SA8	100	multi-trunk - 3 stems minimum, full branching
Category III Deciduous Trees							
0H	Hamamelis virginica	Witch Hamamelis	3	2" cal.	SA8	135	single leader, full branching, symmetrical
Category IV Deciduous Trees							
0I	Platanus x acerifolia	London Plane Tree	11	2" cal.	SA8	250	single leader, full branching, symmetrical
0J	Quercus macrocarpa	White Oak	14	2" cal.	SA8	120	single leader, full branching, symmetrical
0K	Quercus rubra	Red Oak	18	2" cal.	SA8	230	single leader, full branching, symmetrical
Category V Evergreen Trees							
0L	Thuja occidentalis	Eastern White Cedar	13	3" cal.	SA8	50	multi-trunk - 3 stems minimum, full branching

TOTAL 10-YEAR TREE CANOPY PROVIDED BY PLANTING: **27,998**

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

LANDSCAPE COMPUTATIONS - ARBOR ROW - BLOCK 'A'

13-201: INTERIOR PARKING LOT LANDSCAPE CALCULATIONS

No Surface Parking Lots

Interior Parking Lot Landscaping Not Required

13-202: PERIPHERAL PARKING LOT LANDSCAPE CALCULATIONS

No Surface Parking Lots

Perimeter Parking Lot Landscaping Not Required

13-203: TRANSITIONAL SCREENING AND BARRIERS

Property Zoning District: PTD3

Adjacent Zoning Districts: 18, O-7, PDC, PTD3C

Transitional Screening and Barriers are Not Required

13-400: TREE COVER CALCULATIONS

Table 13.13 10-year Tree Canopy Calculation Worksheet

Item	Description	Area (sq. ft.)	Notes
A.1	Tree Preservation Target and Minimum	1	
B.1	Tree Canopy Requirement	254,710	
B.2	Land Dedicated to park, open space, recreation, etc.	8,400	
B.3	Open Space, Recreation, etc.	228,270	
B.4	Subtotal	236,670	
B.5	Percentage of 10-year tree canopy cover required	93%	
B.6	Area of 10-year tree canopy cover required	219,800	
B.7	Verification of 10-year tree canopy cover requirement	219,800	Plus street trees, mobilization, a maximum of 20%
C.1	Tree Preservation Target	219,800	
C.2	Tree Canopy Area Meeting Standards of 10-20% of Total Area	219,800	
C.3	Total canopy area provided by unique or valuable trees of potential significance	0	
C.4	Total canopy area provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
C.5	Total canopy area provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
C.6	Canopy area of trees within Resource Protection Area and Other Reservations	21,780	
C.7	Total of C.1, C.4, C.5, and C.6	21,780	
D.1	Tree Preservation Target	219,800	
D.2	Area of canopy provided by unique or valuable trees of potential significance	1,548	
D.3	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.4	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.5	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.6	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.7	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.8	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.9	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.10	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.11	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.12	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.13	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.14	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.15	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.16	Area of canopy provided by "Historical," "Monumental," "Specimen," or "Street Trees"	0	
D.17	Total of D.1 through D.16	21,780	
D.18	Area of canopy area provided through tree planting	21,780	As an offsetting planting that requires 100% tree preservation
D.19	Total of D.1 through D.17 and D.18	21,780	
D.20	Canopy area required to be provided through offsetting tree planting	0	Amount to be deposited into the Tree Preservation and Planting Fund
D.21	Amount to be deposited into the Tree Preservation and Planting Fund	0	

Total of 10-year Tree Canopy Provided:

B.1 Total of Canopy Provided Through tree preservation (B.1)	236,670
B.2 Total of canopy area provided through tree planting (B.2)	21,900
B.3 Total of canopy area provided through offsetting tree planting (B.3)	0
B.4 Total of 10-year tree canopy provided	258,570

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ARBOR ROW - BLOCK 'A'
FINAL DEVELOPMENT PLAN 2011-PR-023-1
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS:
01/24/13 PR COUNTY COMPLETED
07/22/13 PR COUNTY COMPLETED
06/20/13 PR COUNTY COMPLETED
05/15/13 PR COUNTY COMPLETED

SCALE: AS NOTED

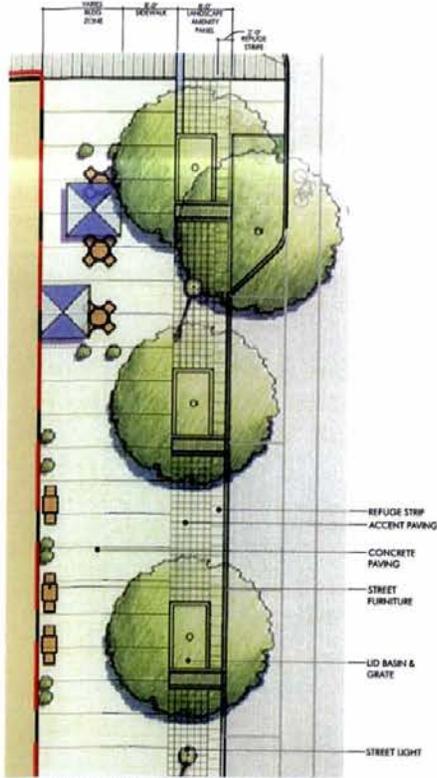
JOB No.:

DATE: DECEMBER 7, 2011

FILE No.:

SHEET: L3.01

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.



01 WEST BRANCH DRIVE - ENLARGED PLAN
SCALE: 1/8" = 1'-0"

FURNITURE - TABLES AND CHAIRS



OPT 1
MAKE: THOMAS STEEL
MODEL: LUPOO
SIZE: D-30" H-30"

OPT 2
MAKE: FORMS+SURFACES
MODEL: WAVE TABLE
SIZE: D-36" H-28"

BIKE RACKS



OPT 1
MAKE: LANDSCAPE FORMS
MODEL: RING
SIZE: 1.5' x 25' x 27"



OPT 2
MAKE: LANDSCAPE FORMS
MODEL: KEY
SIZE: 3' x 23' x 32"

METAL TREE GRATE



OPT 1
MAKE: BIRKBEATH
MODEL: MARKET STREET
SIZE: 60"

OPT 2
MAKE: HUB
MODEL: 5304 TREE
GRATE
SIZE: 1030mm x 1030mm
x 35mm

STREET LIGHTS - PER TYSON'S URBAN DESIGN GUIDELINES



OPT 1
MAKE: SELUX
MODEL: ARC / ARC MINI
HFO OR LED
ATTOR POLE WITH ATASS BASE COVER
*DUAL ARMS MOUNTED AT PEDESTRIAN & VEHICULAR HEIGHTS



OPT 2
MAKE: ARCHITECTURAL AREA LIGHTING
MODEL: P128
HFO MODEL: PH-400PSMH-11A-1750-B
LED MODEL: PH-T3-PPLED-8W-11A-1834
*DUAL ARMS MOUNTED AT PEDESTRIAN & VEHICULAR HEIGHTS

VEHICULAR BOLLARDS



OPT 1
MAKE: FORMS AND SURFACES
MODEL: LIGHT COLUMN BOLLARD
BR-CD-60H
SCREEN: REVIE OR SCAPE
SIZE: 48"



OPT 2
MAKE: BEGA
MODEL: STAINLESS BOLLARD
WITH LOUVER
SIZE: 41 1/2"

03 SITE FURNISHING EXHIBITS
SCALE: NTS

BENCHES



OPT 3
MAKE: LANDSCAPE FORMS
MODEL: REST
SIZE: 26 1/2' x 33 1/2' x 80"



OPT 4
MAKE: LANDSCAPE FORMS
MODEL: HFS
STEEL & HARDWOOD
SIZE: 8'-6" Length

OPT 1
MAKE: LANDSCAPE FORMS
MODEL: NEOCOMBO
ALUMINUM
SIZE: 27" x 31" x 59"
*SINGLE SEAT TO MATCH BENCH

OPT 2
MAKE: LANDSCAPE FORMS
MODEL: NEOCOMBO
ALUMINUM AND HARDWOOD
SIZE: 27" x 31" x 69"
*SINGLE SEAT TO MATCH BENCH

PLANTERS



TBD BY OWNER

TBD BY OWNER

TBD BY OWNER

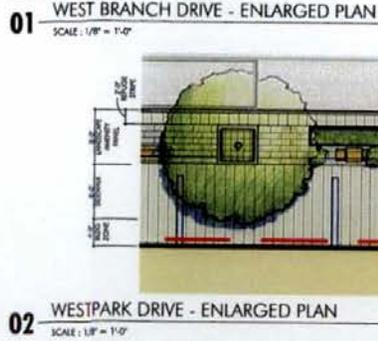
TRASH RECEPTACLES



OPT 1
MAKE: VICTOR STANLEY, INC
MODEL: SDC-24 Steelites
SIZE: 24-gallon

OPT 2
MAKE: LANDSCAPE FORMS
MODEL: LAKESIDE - GRASS
SIZE: 24-gallon

L.I.D. BASINS



02 WESTPARK DRIVE - ENLARGED PLAN
SCALE: 1/8" = 1'-0"

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Cityline PARTNERS
A Landmark Group Company
Cityline Group, Inc. - Greater Falls Church, VA

STREETSCAPE ELEMENTS
ARBOR ROW - BLOCK 'A'
FINAL DEVELOPMENT PLAN (201-PR)-023-1
PRINCEDALE DISTRICT - FALLOON COUNTY, VIRGINIA

PLAN STATUS	DATE	DESCRIPTION
PRELIMINARY	08/15/11	PER COUNTY COMMENTS
PRELIMINARY	07/23/11	PER COUNTY COMMENTS
PRELIMINARY	06/29/11	PER COUNTY COMMENTS
PRELIMINARY	05/25/11	PER COUNTY COMMENTS
PRELIMINARY	04/21/11	PER COUNTY COMMENTS
PRELIMINARY	03/17/11	PER COUNTY COMMENTS
PRELIMINARY	02/13/11	PER COUNTY COMMENTS
PRELIMINARY	01/09/11	PER COUNTY COMMENTS
PRELIMINARY	12/05/10	PER COUNTY COMMENTS
PRELIMINARY	11/01/10	PER COUNTY COMMENTS
PRELIMINARY	10/07/10	PER COUNTY COMMENTS
PRELIMINARY	09/03/10	PER COUNTY COMMENTS
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PRELIMINARY	03/00/01	PER COUNTY COMMENTS
PRELIMINARY	02/00/01	PER COUNTY COMMENTS
PRELIMINARY	01/00/01	PER COUNTY COMMENTS

DATE: DECEMBER 7, 2011
FILE NO.
SHEET: L5.01

FOR INFORMATION ONLY



SUSTAINABILITY STRATEGIES:

- GREEN ROOFS
- L.I.D BASINS & RAIN GARDENS
- PERMEABLE PAVING
- OVERHEAD SHADE SCREENS
- URBAN PARK OVER STRUCTURE
- PEDESTRIAN ACCESS TO PUBLIC TRANSPORTATION
- GREEN PLAZAS OVER STRUCTURE

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

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SUSTAINABILITY STRATEGIES
ARBOR ROW - BLOCK 'A'
 FINAL DEVELOPMENT PLAN 2011-PR-022-1
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	
08/28/12	PER COUNTY COMMENTS
07/24/12	PER COUNTY COMMENTS
06/20/12	PER COUNTY COMMENTS
05/07/12	PER COUNTY COMMENTS
DATE	DESCRIPTION
SCALE	H. NTS
JOB No.	
DATE	DECEMBER 7, 2011
FILE No.	
SHEET	L5.02

THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY

ARBOR ROW - BLOCK "F"

7901 WESTPARK DRIVE

PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

FINAL DEVELOPMENT PLAN

FDP 2011-PR-023-02

(CONCURRENT RZ/CDP 2011-PR-023)

RECEIVED
Department of Planning & Zoning

OCT 05 2012

Zoning Evaluation Division



CIVIL SHEET INDEX

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P.102	NOTES, TABULATIONS AND WAIVERS
P.201	EXISTING CONDITIONS AND EXISTING VEGETATION MAP
P.202	CONTEXT PLAN
P.203	OVERALL DEVELOPMENT PLAN
P.301	FINAL DEVELOPMENT PLAN
P.302	WESTPARK DRIVE CROSS-SECTIONS
P.303	SIGHT DISTANCE EXHIBIT
P.304	INTERM FRONTAGE IMPROVEMENTS
P.305	FIRE ACCESS EXHIBIT
P.306	PAVING EXHIBIT
P.501	PRELIMINARY OUTFALL ANALYSIS
P.502	STORMWATER MANAGEMENT PLAN
P.503	STORMWATER MANAGEMENT DETAILS
P.504	STORMWATER MANAGEMENT COMPUTATIONS
P.505	STORMWATER MANAGEMENT CHECKLIST
P.506	STORMWATER MANAGEMENT CHECKLIST
P.507	INFILTRATION TESTING LETTER

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A.020	ILLUSTRATIVE SHADOW STUDY
A.101	ILLUSTRATIVE P1 LEVEL PLAN
A.102	ILLUSTRATIVE P2 LEVEL PLAN
A.103	ILLUSTRATIVE P3 GROUND FLOOR LEVEL PLAN
A.104	ILLUSTRATIVE P4 LEVEL PLAN
A.105	ILLUSTRATIVE P5 SECOND FLOOR LEVEL PLAN
A.106	ILLUSTRATIVE P6 THIRD FLOOR LEVEL PLAN
A.107	ILLUSTRATIVE THIRDA FLOOR LEVEL PLAN
A.108	ILLUSTRATIVE ROOF PLAN
A.201	ILLUSTRATIVE BUILDING SECTIONS
A.301	ILLUSTRATIVE SITE PERSPECTIVES
A.302	ILLUSTRATIVE SITE PERSPECTIVES
A.401	ILLUSTRATIVE BUILDING ELEVATIONS
A.402	ILLUSTRATIVE BUILDING ELEVATIONS

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L.002	REFERENCE LANDSCAPE PLAN
L.003	ILLUSTRATIVE PLAN
L.101	LANDSCAPE PLAN - STREET LEVEL
L.102	LANDSCAPE PLAN - ROOF TERRACES
L.201	SITE AND STREET SECTIONS
L.202	STREET SECTIONS
L.301	PLANTING DETAILS AND SCHEDULE
L.501	STREETSCAPE ELEMENTS
L.502	SUSTAINABILITY STRATEGIES



APPLICANT
AMT - THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
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MCLEAN, VA 22102
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CIVIL ENGINEERING
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ATTORNEY
COOLEY LLP.
11861 FREEDOM DRIVE
SUITE 1500
RESTON, VA 20190
703-450-8000

02/24/2012
REV. 05/25/2012
REV. 07/23/2012
REV. 08/26/2012
REV. 10/05/2012

SHEET : P.101

NOTES

- OWNER/APPLICANT
AMT - THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
7901 WESTPARK DRIVE
WOLFEAR, VA 22092
- THE PROPERTY SHOWN ON THIS PLAN IS IDENTIFIED ON THE FAIRFAX COUNTY TAX MAP AS 029-4-07-0055A. THE PROPERTY IS APPROXIMATELY 1.66 ACRES.
- THE SITE IS CURRENTLY ZONED C-3 AND CONSTITUTES "BLOCK 1" OF THE PROPOSED ARBOR ROW DEVELOPMENT AND IS PROPOSED TO BE REZONED TO PFC DISTRICT THROUGH APPLICATION #2209-2011-FR-023.
- THE SUBJECT PROPERTY LIES WITHIN SUB-AREA TWO (SOUTH WEST PART) OF THE NORTH SUB-DISTRICT OF THE TYPSON CLINICAL 123 DISTRICT OF THE TYPSON CORNER URBAN CENTER PLAN. THE PROPOSED DEVELOPMENT IS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE COMPREHENSIVE PLAN AS DESCRIBED IN THE APPLICATION NARRATIVE.
- THE COUNTY TRAILS MAP IDENTIFIES AN ON ROAD BIKE TRAIL WITHIN WESTPARK DRIVE. IN SATISFACTION THERE OF AN ON ROAD BIKE TRAIL HAS BEEN IDENTIFIED ON THIS PLAN.
- THE PROPOSED DEVELOPMENT WILL MEET THE PARKING REQUIREMENTS OF ARTICLE 11 OF THE ZONING ORDINANCE. PARKING SHALL BE PROVIDED THROUGH A PROPOSED BELOW GRADE PARKING STRUCTURE.
- THE BOUNDARY AND SURVEYING INFORMATION IS FROM FIELD RUN AND AERIAL SURVEY BY WALTER L. PHILLIPS, INC. CONTAINING METERS AT 1"=100' (SEE).
- TO THE BEST OF OUR KNOWLEDGE THE PROPOSED DEVELOPMENT WILL NOT POSE ANY ADVERSE IMPACTS ON THE ADJACENT PROPERTIES OR NEIGHBORING PROPERTIES.
- IT IS ANTICIPATED THAT DEVELOPMENT OF THIS PROJECT WILL OCCUR IMMEDIATELY FOLLOWING COUNTY APPROVAL OF THE SITE PLAN.
- TO THE BEST OF OUR KNOWLEDGE NONE OF THE USES REFERRED TO IN THIS PLAN WILL GENERATE, UTILIZE, STORE, TREAT AND/OR DISPOSE OF ANY HAZARDOUS OR TOXIC SUBSTANCES AS SET FORTH IN TITLE 40, CODE OF FEDERAL REGULATIONS PART 118.4, 302.4 AND 355. ANY HAZARDOUS WASTE AS SET FORTH IN CONGRESS/STATE OF VIRGINIA DEPARTMENT OF WASTE MANAGEMENT VR 572-10-1 - VIRGINIA HAZARDOUS WASTE MANAGEMENT REGULATIONS, AND/OR ANY PETROLEUM PRODUCTS AS DEFINED IN TITLE 40, CODE OF FEDERAL REGULATIONS PART 280.
- THE SITE IS SERVED BY PUBLIC WATER AND SEWER.
- A GRAPHIC PORTION OF THE ANGLE BEAR PLAN FOR THE PROPOSED DEVELOPMENT SITE IS NOT REQUIRED AS THIS DEVELOPMENT IS NOT LOCATED NEAR THE PERIPHERY OF THE TYPSON URBAN CENTER AS DESCRIBED IN SECTION 16-102 OF THE ZONING ORDINANCE.
- ALL NECESSARY PUBLIC UTILITIES ARE READILY ACCESSIBLE TO THE SITE OR WILL BE EXTENDED OR IMPROVED BY THE APPLICANT OR UTILITY COMPANY AS MAY BE APPROPRIATE FOR THE PROPOSED DEVELOPMENT.
- THE GENERAL THEMES AND CHARACTERISTICS OF THE PROPOSED DEVELOPMENT, FINAL PRODUCT SELECTION MAY VARY AT THE TIME OF SITE PLAN, BUT WILL BE CONSISTENT WITH THE QUALITY OF THE DESIGN REPRESENTED HEREON. ADDITIONAL SITE AMENITIES AND FEATURES SUCH AS GARDENS, PLANTERS, BENCHES, OTHER SEATING AREAS, WALKWAYS, TRELLISES, WATER PLANTINGS OR SPECIAL PLANTINGS, PUBLIC ART, SOUNDS, WALLS, LIGHTS, UTILITY MAINTENANCE STRUCTURES AND SIMILAR FEATURES NOT REPRESENTED HEREON MAY BE PROVIDED AS LONG AS THE RESULTANT DEVELOPMENT IS IN SUBSTANTIAL CONFORMANCE WITH THAT REPRESENTED ON THE GRAPHICS.
- THERE ARE NO RESOURCE PROTECTION AREA OR ENVIRONMENTAL QUALITY CORRIDORS ON THE PROPERTY.
- THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP FOR FAIRFAX COUNTY, VIRGINIA, COMMUNITY-BASED NUMBER 55525-010, EFFECTIVE DATE MARCH 5, 1992, DESIGNATES THE PROPERTY AS BEING IN ZONE X, AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN.
- TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CREEKS LOCATED ON THE SITE.
- THE PROPOSED SIGNAGE WILL BE IN ACCORDANCE WITH THE ZONING ORDINANCE, WITH A SINGLE COMPREHENSIVE SIGN PLAN FOR THE PROPERTY OR WITH A COMPREHENSIVE SIGN PLAN FOR THE PROPERTY TOGETHER WITH ONE OR MORE OF THE OTHER BLOCKS ON ARBOR ROW.
- TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO UTILITY EASEMENTS HAVING A WIDTH OF 25 FEET OR MORE ON THE PROPERTY.
- THERE ARE NO SICM ASSETS OR NATURAL FEATURES ON THIS PROPERTY DESERVING OF PROTECTION AND/OR PRESERVATION.
- TRANSITIONAL SCREENING IS NOT REQUIRED AS SET FORTH IN ARTICLE 6-310 OF THE ZONING ORDINANCE.
- THE PROPOSED APPLICATION CONFORMS TO THE PROVISIONS OF ALL APPLICABLE ORDINANCES, REGULATIONS, AND ADOPTED STANDARDS, EXCEPT AS NOTED IN THE WAIVERS/MODIFICATIONS REQUESTED IN THE COP AND NOTED HEREON FOR ILLUSTRATIVE PURPOSES.
- APPLICANT INTENDS TO REMOVE THE EXISTING STRUCTURES, OR THEY MAY REMAIN IN PERPETUITY.
- THIS PLAN IS CONCEPTUAL AND IS INTENDED TO BE USED IN CONSULTATION WITH THE LAND USE APPROVAL PROCESS ONLY. IT IS NOT AN ENGINEERING CONSTRUCTION DRAWING, AND MINOR DEVIATIONS AND ADJUSTMENTS MAY BE REQUIRED, AND ARE PERMITTED PURSUANT TO ZONING ORDINANCE SECTION 16-240(2), AS PART OF THE FINAL DESIGN AND SITE PLAN APPROVAL PROCESS. HOWEVER, THE FINAL CONSTRUCTION DRAWINGS SHALL BE IN SUBSTANTIAL CONFORMANCE WITH THIS PLAN.
- PROPOSED ROADWAY IMPROVEMENTS (ENTRANCES, CURBS, MEDIAN ETC.) MAY REQUIRE EXEMPTION FROM ROOT ACCESS MANAGEMENT DESIGN STANDARDS, AS MAY BE DETERMINED DURING SITE PLAN REVIEW.
- ARCHITECTURAL, DESIGN AND LANDSCAPE FEATURES ARE SUBJECT TO MODIFICATIONS, PROVIDED THAT THE GENERAL DESIGN STRATEGY, QUALITY AND CHARACTERISTICS OF THE PROJECT ARE MAINTAINED AND IN SUBSTANTIAL CONFORMANCE WITH THE COP. THE EXACT LOCATION, SHAPE AND SIZE OF THE PROPOSED BUILDING, SIGNING AND PARKING STRUCTURE SHOWN ON THE GRAPHIC ARE SUBJECT TO ADJUSTMENT AND REFINEMENT WITH FINAL ENGINEERING AND ARCHITECTURAL DESIGN SO LONG AS THEY REMAIN IN SUBSTANTIAL CONFORMANCE WITH THE COP.
- DEDICATION OF A PORTION OF THE APPLICATION AREA IS PROPOSED FOR THE STRUCTURE IMPROVEMENTS OF WESTPARK DRIVE. APPLICANT RESERVES THE RIGHT TO UTILIZE AREA OF DEDICATION IN THE CALCULATION OF PROPOSED DENSITY AND F.A.R. PER ARTICLE 2-308-4 OF THE ZONING ORDINANCE.
- PERMITTED USES IDENTIFIED IN SECTION 4-302 OF THE ZONING ORDINANCE MAY BE PROVIDED WITHOUT REQUIRING AN AMENDMENT TO THE COP OR FDP, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
ACCESSORY USES
AMT
BUSINESS SERVICE AND SUPPLY SERVICE ESTABLISHMENTS
QUICK SERVICE FOOD STORES
FAST FOOD RESTAURANTS
HEALTH CLUBS AND SIMILAR COMMERCIAL/RECREATIONAL USES
COMMUNITY USES
EATING ESTABLISHMENTS
OFFICES
PERSONAL SERVICES ESTABLISHMENTS
PUBLIC AND QUARTERLY USES, INCLUDING A CONFERENCE CENTER OPERATED BY A NEIGHBORLY ORGANIZATION AS PERMITTED UNDER THE FAIRFAX COUNTY ZONING ORDINANCE.
RETAIL SALES ESTABLISHMENT AND SIMILAR USES
- INCREASED OR DEDICATED PARKING FOR ANY PERMITTED SECONDARY USE, INCLUDING ACCESSORY AND/OR RETAIL USE, ON THE PROPERTY, SHALL BE ACCOMMODATED THROUGH THE USE OF TANDUM AND/OR VALET PARKING.
- ALL PUBLICLY-ACCESSIBLE PARK SPACE AND RECREATIONAL FACILITIES ARE SATISFIED ACROSS THE ENTIRETY OF ARBOR ROW AND NOT ON EACH INDIVIDUAL BLOCK AS SHOWN ON THE COP.
- THE PROVISION OF SPACE AND INFRASTRUCTURE FOR "ELECTRIC-VEHICLE READY" PARKING SPACES IN THE AFFECTED PARKING BLOCKS SHALL BE CONSIDERED READY* MEANS THE PROVISION OF SPACE, CIRCUIT BREAKS, CONDUITS AND ACCESS POINTS ALLOWING FOR EASY INSTALLATION OF VEHICLE CHARGING STATIONS IN THE FUTURE, BUT DOES NOT INCLUDE THE INSTALLATION OF TRANSFORMERS, SWITCHES, WIRING, OR CHARGING STATIONS. IN ADDITION, TO THE EXTENT THERE ARE ACCESS ELECTRICAL AND WATER METERS FOR PUBLIC BUILDINGS, UPON REQUEST BY THE COUNTY, COORDINATED, NON-PROPRIETARY ENERGY AND WATER CONSUMPTION DATA, AS PRACTICABLE, SHALL BE PROVIDED TO THE COUNTY FOR THE BUILDING WITHIN EACH RESPECTIVE BLOCK AS MAY BE APPLICABLE.
- THE PROPERTY LINES SHOWN ON THE COP AND FDP ARE BASED ON RECORDED PLATS AND DEEDS FROM THE 1970s AND MAY BE ADJUSTED BASED ON INFORMATION FROM RECENT FIELD SURVEYS AT SITE PLAN.

WAIVERS / MODIFICATIONS AS LISTED ON THE COP (FOR INFORMATIONAL PURPOSES ONLY)

- ZONING ORDINANCE ARTICLE 2 - GENERAL REGULATIONS**
- WAIVER AND/OR MODIFICATION OF SECTION 2-306-2 TO ALLOW FOR A PARAPET WALL, CORNER OR SIMILAR PROJECTION TO EXCEED THE HEIGHT LIMIT ESTABLISHED BY MORE THAN 3 FEET.
 - WAIVER OF ZONING ORDINANCE SECTION 8-502.7 REGARDING THE DESIGNATION OF SPECIFIC OUTDOOR DRIVING AREAS ON THE COP FOR RATHER, OUTDOOR DRIVING MAY BE PROVIDED IN ANY AREA WHERE THE USE INCLUDES DRIVING ACTIVITY AND WILL BE INDICATED AT THE TIME OF FINAL SITE PLAN.
- ZONING ORDINANCE ARTICLE 8 - PLANNED DEVELOPMENT DISTRICT REGULATIONS**
- MODIFICATION OF ZONING ORDINANCE SECTION 11-102(12) AND SECTION 8-506(1) TO ALLOW FOR TANDUM SPACES AND VALET SPACES CONTROLLED BY BUILDING MANAGEMENT, FOR RESIDENTIAL AND OFFICE USES. SUCH STACKED SPACES IN ACCORDANCE WITH SECTION 11-101(1) AND 8-506(1) MAY COUNT TOWARD REQUIRED PARKING SPECIFIED IN THE ZONING ORDINANCE, AND SHALL BE PROVIDED IN ACCORDANCE WITH THE PARKING PLAN SUBMITTED WITH THE COP.
 - MODIFICATION OF ZONING ORDINANCE SECTION 11-201 AND SECTION 11-203 FOR THE REQUIRED NUMBER OF LOADING SPACES WITHIN OFFICE AND RETAIL/SERVICES USES IS REQUESTED IN FAVOR OF THOSE WHICH ARE SHOWN ON THE COP, WHICH EXCEEDS REQUIRED REQUIREMENTS WILL BE DIFFERENT.
- ZONING ORDINANCE ARTICLE 11 - PARKING AND LOADING**
- MODIFICATION OF INTERIOR PARKING LOT LANDSCAPE REQUIREMENTS (SECTION 13-202-B) FOR ABOVE GRADE PARKING STRUCTURES AND INTERIOR SURFACE LOTS, AS ALLOWED FOR SECTION 13-202, PARA. 6, TO THAT SHOWN ON THE COP AND DESCRIBED BELOW.
 - FOR PROPOSED ABOVE GRADE PARKING STRUCTURES, INTERIOR LANDSCAPING MAY INCLUDE MINIMATIVE PLANTING DESIGN AND TECHNIQUES, INCLUDING BUT NOT LIMITED TO, OVERHEAD VEGETATIVE ARRAYS, TO SATISFY CANOPY COVERAGE REQUIREMENTS.
 - FOR INTERIOR SURFACE PARKING LOTS, INTERIOR LANDSCAPING WILL BE DEMONSTRATED ON SUBSEQUENT FOR APPLICATIONS AND WILL UTILIZE EXISTING VEGETATION WITHIN PARKING LOTS, TO THE EXTENT POSSIBLE, TO MEET REQUIRED STANDARDS.
 - MODIFICATION OF PERIPHERAL LANDSCAPE REQUIREMENTS (SECTION 13-203-5) FOR ABOVE GRADE PARKING STRUCTURES AND INTERIOR SURFACE LOTS AS ALLOWED BY SECTION 13-203, PARA. 3, TO THAT SHOWN ON THE COP AND DESCRIBED BELOW.
 - FOR PROPOSED ABOVE GRADE PARKING STRUCTURES, PERIPHERAL LANDSCAPING WILL BE SATISFIED BY THE PROVISION OF URBAN STREETSCAPES (PER TYPSON URBAN DESIGN GUIDELINES) WHERE GARAGES ARE ADJACENT TO STREET FRONTAGE AND BY EXISTING TOPOGRAPHIC FEATURES OR OTHER URBAN DESIGN ELEMENTS WHERE GARAGES ARE ADJACENT TO NON STREET FRONTAGE.
 - FOR INTERIOR SURFACE PARKING LOTS, PERIPHERAL LANDSCAPING WILL BE DEMONSTRATED ON SUBSEQUENT FOR APPLICATIONS AND WILL UTILIZE EXISTING VEGETATION WITHIN PARKING LOTS, TO THE EXTENT POSSIBLE, TO MEET REQUIRED STANDARDS.
- ZONING ORDINANCE ARTICLE 16 - DEVELOPMENT PLANS**
- WAIVER OF ZONING ORDINANCE SECTION 16-403 REGARDING THE SUBMISSION OF A FINAL DEVELOPMENT PLAN APPLICATION ASSOCIATED WITH THE PUBLIC ROADWAY AND INFRASTRUCTURE PHASING EXHIBIT SHOWN WITHIN THE COP.
- ZONING ORDINANCE ARTICLE 17 - SITE PLAN**
- WAIVER OF SECTION 17-201-1(B) REGARDING ADDITIONAL INTER-PARCEL ACCESS TO ADJACENT PARCELS (OTHER THAN THOSE SHOWN ON THE COP).
 - MODIFICATION OF SECTION 17-201-2) AND (4) TO PROVIDE INTERIOR ROAD AND TRAIL CONDITIONS ALONG WESTPARK DRIVE AS SHOWN ON THE COP AS A RESULT OF THE CONSTRUCTION OF THE 14-FT EXPRESS LANE IMPROVEMENTS AND IN ORDER TO TRANSFORM THE ULTIMATE IMPROVEMENTS.
- PUBLIC UTILITIES MANUAL**
- MODIFICATION OF PFM SECTION 7-080 TO ALLOW TANDUM/VALET PARKING SPACES, CONTROLLED BY BUILDING MANAGEMENT, AND THAT SUCH SPACES SHALL COUNT TOWARD REQUIRED PARKING.
 - MODIFICATION OF SECTION 7-080.2 PARKING GEOMETRIC STANDARDS, TO ALLOW FOR PROTECTION OF STRUCTURAL COLUMNS WITHIN PARKING STRUCTURES FOR UP TO 1.5 FEET INTO THE REQUIRED PARKING STALL AREA. THE PARKING STALLS AFFECTED BY SUCH STRUCTURAL COLUMNS SHALL COUNT TOWARD THE NUMBER OF REQUIRED PARKING SPACES FOR UP TO 10% OF THE TOTAL SPACES PROVIDED.
 - MODIFICATION OF SECTION 12-050R (SEE PRESERVATION TARGET) AS ALLOWED BY DEVIATIONS DESCRIBED IN SECTION 12-050R.3A(1) THROUGH SECTION 12-050R.3A(3) AND AS DESCRIBED IN REQUEST LETTER ATTACHED TO THE COP.
 - MODIFICATION OF SECTION 12-051A(2) TO PERMIT REDUCTION OF THE MINIMUM PLANTING AREA FROM 100 FEET TO A MINIMUM OF FOUR (4) FEET IN ORDER FOR TREES TO SATISFY THE TREE COVER REQUIREMENT. REFER TO LANDSCAPE PLANS HEREON FOR GRAPHIC OF THE PROPOSED PLANTING AREAS.
 - MODIFICATION OF SECTION 12-051-4 FOR REQUIRED TREE (10) PERCENT TREE CANOPY COVERAGE ON INDIVIDUAL LOTS/LAND BAYS, TO ALLOW FOR CANOPY TO BE CALCULATED ON THE OVERALL ARBOR ROW DEVELOPMENT AREA, AS DEMONSTRATED ON THE COP.

STORMWATER MANAGEMENT DESIGN PFM DEVIATION NARRATIVE

- IN KEEPING WITH THE COMPREHENSIVE PLAN AND POLICY AND OBJECTIVES OF THE ENVIRONMENTAL STORMWATER MANAGEMENT GUIDELINES FOR STORMWATER MANAGEMENT, AND THE ACKNOWLEDGMENT THAT SUCH GOALS WILL REQUIRE A PROGRESSIVE, AFFORDABLE AND INNOVATIVE DESIGN TECHNOLOGY FOR THE DEVELOPMENT OF LAND IN THE TYPSON CORNER URBAN CENTER, THE FOLLOWING DEVIATIONS FROM THE STRICT ADHERENCE TO THE PUBLIC UTILITIES MANUAL (PUM) WILL BE NECESSARY IN ORDER TO IMPLEMENT SUCH OBJECTIVES:
- DEVIATION OF PFM SECTION 4-120A-1 TO ALLOW UTILIZATION OF INFILTRATION RATES LESS THAN 0.52 IN/HR FOR FIELD TESTED RATE OF INFILTRATION SYSTEMS UTILIZED TO MEET THE COMPREHENSIVE PLAN REQUIREMENT FOR RETENTION OF THE FIRST 1" OF RUNOFF DISCHG.
 - DEVIATION OF PFM SECTION 4-130B-3 TO ALLOW FOR ANY DETENTION FACILITY LOCATED WITHIN A BUILDING OR GARAGE STRUCTURE TO BE GOVERNED BY BUILDING CODE REQUIREMENTS FOR ACCESS AND MAINTENANCE.
 - DEVIATION OF PFM SECTION 4-130C-2 TO ALLOW FOR INSTALLATION OF BIO-RETENTION AND INFILTRATION FACILITIES THAT UTILIZE INFILTRATION TO BE CONSTRUCTED ON A-SITE FILL MATERIAL, PROVIDED FIELD TESTS SHOW ADEQUATE INFILTRATION RATES EXIST FOR IN-SITU MATERIAL.
 - DEVIATION OF PFM SECTION 4-130D-2 TO SET THE MINIMUM HORIZONTAL SETBACKS FROM THE BUILDING FOUNDATIONS BE PROVIDED TO ZERO (0) FEET IN ORDER TO FACILITATE INSTALLATION OF BIO-RETENTION AND INFILTRATION SYSTEMS IN AN URBAN ENVIRONMENT SET FORTH IN THE TYPSON CORNER DESIGN GUIDELINES.
 - DEVIATION OF PFM SECTION 4-130D-2C TO ALLOW INSTALLATION OF BIO-RETENTION AND INFILTRATION FACILITIES IN THE VICINITY OF LOADING DOCKS, VEHICLE MAINTENANCE AREAS OR OUTDOOR STORAGE AREAS TO ACCOMMODATE THE URBAN ENVIRONMENT SET FORTH IN THE TYPSON CORNER DESIGN GUIDELINES.
 - DEVIATION OF PFM SECTION 4-130D-2D TO ALLOW FOR THE MAXIMUM DRAINAGE AREAS TO BIO-RETENTION FILTERS UTILIZED FOR RETENTION OF THE FIRST 1" OF RUNOFF BE ELIMINATED IN ORDER TO ACCOMMODATE ROOFTOP RUNOFF PIPED TO PROPOSED STRUCTURES.
 - DEVIATION OF PFM SECTION 4-130D-2E TO ALLOW INSTALLATION OF TREE BOX FILTERS IN THE VICINITY OF LOADING DOCKS, VEHICLE MAINTENANCE AREAS OR OUTDOOR STORAGE AREAS TO ACCOMMODATE THE URBAN ENVIRONMENT SET FORTH IN THE TYPSON CORNER DESIGN GUIDELINES.



ZONING TABULATION

EXISTING ZONE:	REQUIRED	PROVIDED
C-3, OFFICE DISTRICT	NONE	±80,001 SF/±1,836 AC
PROPOSED ZONE: PFC, PLANNED TYPSON CORNER URBAN DISTRICT		±822.1 SF
MIN. LOT AREA	NONE	±80,001 SF/±1,836 AC
MIN. LOT WIDTH	NONE	±822.1 SF
ALLOWABLE BLDG HT *	175 FT - 225 FT	±135-175 FT MAX. (PLUS ±20 FT PENHOUSS)
MIN. YARD REQUIREMENTS		
FRONT *	RECOMMENDED 4'-12"	±4' ±15'
SIDE	NONE	0 FT
REAR	NONE	0 FT

* RECOMMENDED PER COMPREHENSIVE PLAN

SITE AREA / F.A.R. TABULATION

TOTAL SITE AREA:	±80,001 SF/±1,836 AC
PROP. R.O.W. DEDICATION AREA =	±4,675 SF
PROP. BUILDING AREA:	
PROP. OFFICE	= ±197,844 SF
PROP. RETAIL	= ±2,156 SF
TOTAL PROP. BUILDING AREA =	±200,000 SF*
PROP. F.A.R.	= ±2.49**

* MINIMUM GFA = 50% OF 200,000 SF
** FAR BASED ON PRE-DEDICATION AREA

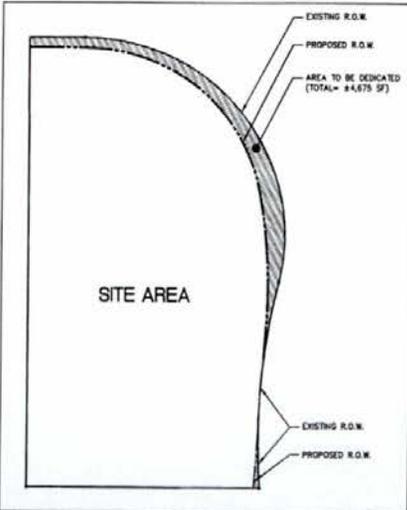
PARKING TABULATION

REQUIRED PARKING	
USE: OFFICE	
MAXIMUM RATE: 2.2 SPACES/1,000 SF OF GFA	
(±197,844 SF/1,000 SF x 2.2 = 435)	
MAXIMUM PARKING ALLOWED =	435 PARKING SPACES
TOTAL PARKING PROVIDED =	435 PARKING SPACES
(±2,156 SF OF RETAIL EXCLUDED FROM PARKING RATIO PER PFC ZONING DISTRICT)	

LOADING TABULATION

REQUIRED LOADING	
USE: OFFICE	
RATE: 1 SPACE FOR THE FIRST 10,000 SF OF GROSS FLOOR AREA PLUS 1 SPACE FOR EACH ADDITIONAL 20,000 SF OF GROSS FLOOR AREA THEREOF	
±197,844 SF = 10,000 SF = 187,844 SF	
187,844/20,000 = 9.39 SPACES	
10,000 = 1 SPACE	
10.39 SPACES	
TOTAL LOADING REQUIRED =	11 SPACES (SEE NOTE BELOW)
PROVIDED LOADING	
LOADING PROVIDED =	3 SPACES

NOTE: MAXIMUM OF 5 LOADING SPACES REQUIRED PER ZONING ORDINANCE. WAIVER REQUESTED WITH THIS APPLICATION.



RIGHT OF WAY DEDICATION DETAIL
SCALE: 1"=50'
AREA OF DEDICATION = ±4,675 SF

WALTER L. PHILLIPS
Professional Engineer
Professional Surveyor
Professional Land Surveyor
Professional Geomatics Engineer
Professional Environmental Engineer
Professional Civil Engineer
Professional Mechanical Engineer
Professional Electrical Engineer
Professional Chemical Engineer
Professional Nuclear Engineer
Professional Architect
Professional Interior Designer
Professional Landscape Architect
Professional Urban Planner
Professional Urban Designer
Professional Transportation Planner
Professional Traffic Engineer
Professional Environmental Scientist
Professional Environmental Engineer
Professional Environmental Planner
Professional Environmental Analyst
Professional Environmental Monitor
Professional Environmental Auditor
Professional Environmental Consultant
Professional Environmental Investigator
Professional Environmental Remediation Specialist
Professional Environmental Restoration Specialist
Professional Environmental Compliance Specialist
Professional Environmental Impact Specialist
Professional Environmental Policy Specialist
Professional Environmental Law Specialist
Professional Environmental Economics Specialist
Professional Environmental Sociology Specialist
Professional Environmental History Specialist
Professional Environmental Art Specialist
Professional Environmental Music Specialist
Professional Environmental Literature Specialist
Professional Environmental Film Specialist
Professional Environmental Theater Specialist
Professional Environmental Dance Specialist
Professional Environmental Visual Arts Specialist
Professional Environmental Performance Arts Specialist
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Professional Environmental Journalism Specialist
Professional Environmental Public Relations Specialist
Professional Environmental Communications Specialist
Professional Environmental Marketing Specialist
Professional Environmental Sales Specialist
Professional Environmental Customer Service Specialist
Professional Environmental Human Resources Specialist
Professional Environmental Training Specialist
Professional Environmental Quality Assurance Specialist
Professional Environmental Quality Control Specialist
Professional Environmental Safety Specialist
Professional Environmental Health Specialist
Professional Environmental Nutrition Specialist
Professional Environmental Exercise Specialist
Professional Environmental Recreation Specialist
Professional Environmental Leisure Specialist
Professional Environmental Entertainment Specialist
Professional Environmental Education Specialist
Professional Environmental Research Specialist
Professional Environmental Development Specialist
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Professional Environmental Administration Specialist

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KG
K&G
Professional Engineer
Professional Surveyor
Professional Land Surveyor
Professional Geomatics Engineer
Professional Environmental Engineer
Professional Civil Engineer
Professional Mechanical Engineer
Professional Electrical Engineer
Professional Chemical Engineer
Professional Nuclear Engineer
Professional Architect
Professional Interior Designer
Professional Landscape Architect
Professional Urban Planner
Professional Urban Designer
Professional Transportation Planner
Professional Traffic Engineer
Professional Environmental Scientist
Professional Environmental Engineer
Professional Environmental Planner
Professional Environmental Analyst
Professional Environmental Monitor
Professional Environmental Auditor
Professional Environmental Consultant
Professional Environmental Investigator
Professional Environmental Remediation Specialist
Professional Environmental Restoration Specialist
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Professional Environmental Development Specialist
Professional Environmental Management Specialist
Professional Environmental Administration Specialist

NOTES, TABULATIONS, AND WAIVERS
THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
7901 WESTPARK DRIVE
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE: 11/11/2011
SCALE: NA
JOB NO: 0809
DATE: 2/24/2012
FILE NO: 0809-0101

SHEET: P.102

- LEGEND**
- APPROX LOC APPROXIMATE LOCATION
 - B1 BUILDING FOOT
 - CDC 2119 OF FALLS CHURCH
 - CD CLEARCUT
 - CNC CONCRETE
 - CPY CANOPY
 - DB SEED BOOK
 - EP EDGE OF PAVEMENT
 - EMT EASIMENT
 - FC HEADER CURB
 - FWA FAIRFAX COUNTY WATER AUTHORITY
 - FDC FIRE DEPARTMENT CONNECTION
 - FF FIRST FLOOR FLOOR FINISH
 - FP FLOOR FLOOR
 - SW SWALE
 - MC MANICURED RAMP
 - ICV IRRIGATION CONTROL VALVE
 - INB INLET
 - JF IRON PIP FOUND
 - NP NOW OR FORMERLY
 - DN UPPER LEVEL DRAINING
 - PA PAVE
 - PA2 P & M SET (PROPERTY CORNER)
 - RT RETAINING WALL
 - SD STORM DRAIN STRUCTURE
 - SS SANITARY SEWER STRUCTURE
 - SM STREAMLINE
 - TCT TELECOMMUNICATIONS VAULT
 - WV WATER VALVE
 - FW FIRE HYDRANT
 - DOORWAY/ENTRANCE
 - LI LIGHT POLE
 - F FENCE
 - SW SWALE
 - OW OVERHEAD WIRE
 - UE UNDERGROUND ELECTRIC LINE
 - UG UNDERGROUND GAS LINE
 - UT UNDERGROUND TELEPHONE LINE
 - UW UNDERGROUND WATER LINE
 - T TREE
 - LC LINE OF TREE CANOPY/VEGETATION
 - CS CURB AND SUTTER
 - ET ELECTRIC TRANSFORMER
 - SE SPOT ELEVATION
 - ST STATION
 - SL SIGNAL LIGHT
 - R RESERVED FOR HANDICAPPED

TABLE 12.3

TABLE 12.3 TREE PRESERVATION TARGET CALCULATIONS AND STATEMENT

- PRE-DEVELOPMENT AREA OF EXISTING TREE CANOPY FROM DVM: 21,893 SF
- PERCENTAGE OF GROSS SITE AREA COVERED BY EXISTING TREE CANOPY: 84.8 %
- PERCENTAGE OF 10-YEAR TREE CANOPY REQUIRED FOR SITE: 10%
(8,000 SF) (TOTAL SITE AREA = 80,001 SF)
- PERCENTAGE OF 10-YEAR TREE CANOPY REQUIRED THAT SHOULD BE MET THROUGH TREE PRESERVATION: 34.2% + 2.184 SF
- PROPOSED PERCENTAGE OF CANOPY REQUIREMENT THAT WILL BE MET THROUGH TREE PRESERVATION: 0%
- HAS THE TREE PRESERVATION TARGET MINIMUM BEEN MET? NO

TABLE 12.10
SEE SHEET L.301

EXISTING VEGETATION MAP INFORMATION

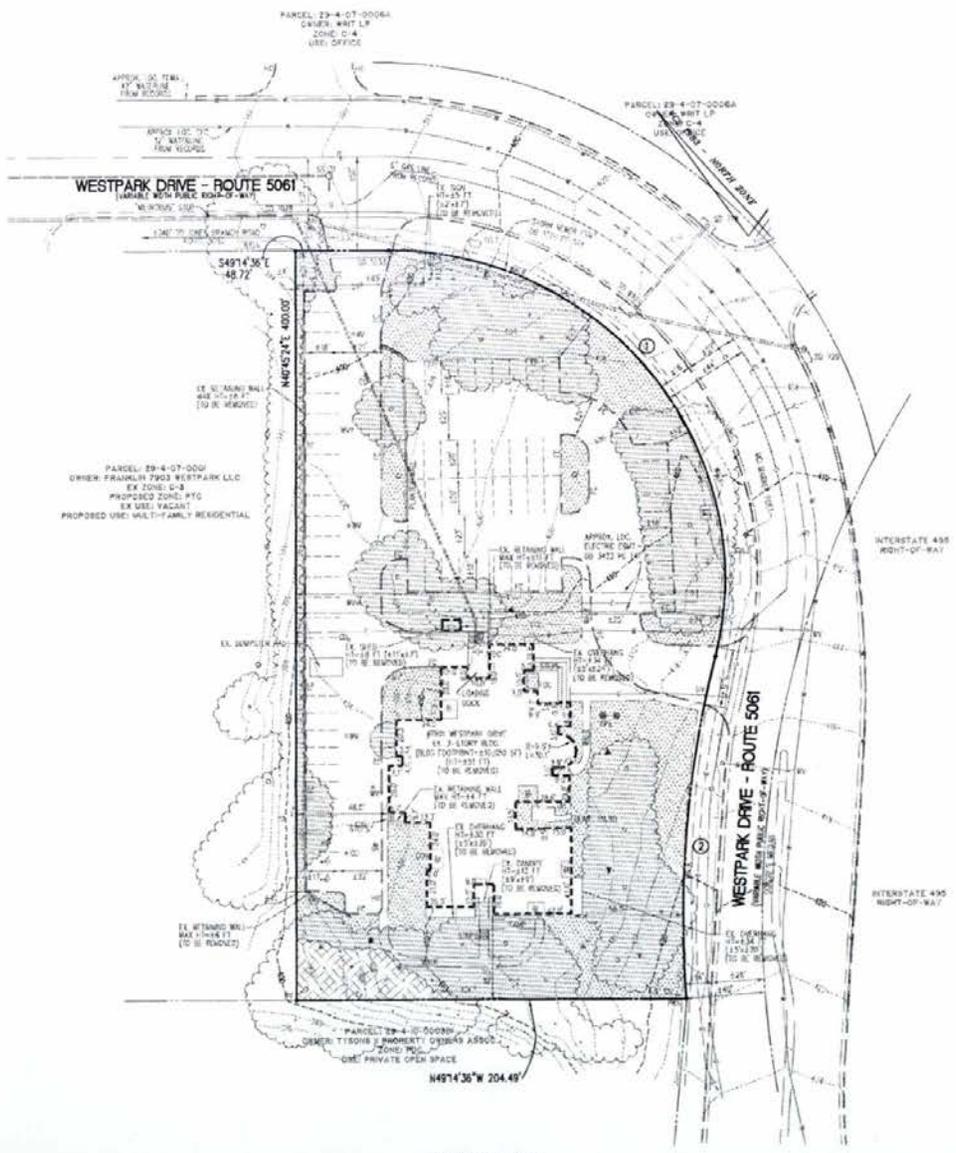
	COVER TYPE	PRIMARY SPECIES	SUCCESIONAL STAGE	CONDITION	ADREAGE
A	EARLY SUCCESSION FOREST DOMINANT	BLACK LOCUST, RED MAPLE, BLACK CHERRY, TAMP, FOLK, SPOCKAY PINE	EARLY	FAIR TO POOR	0.14 AC.
B	DEVELOPED LAND	N/A	N/A	N/A	0.74 AC.
C	LANDSCAPE TREE CANOPY	ORANGE STARBUCK, PIN OAK, GINKGO, AMERICAN HOLLY	MD-LATE	FAIR TO GOOD	0.55 AC.
D	MISC. (SHRUBS AND GRASSCOVER)	N/A	N/A	FAIR TO GOOD	0.40 AC.

* DOMINANT TREE SPECIES

TOTAL SITE AREA: 81.83 AC.

CURVE TABLE

CURVE	INSET	174279	1811	174279	CHORD	CHORD BEARING
1	176.96	238.48	163.4033°	221.92	276.78	102.3333°W
2	380.87	183.74	1749.97°	93.87	153.97	343.33°W



WALTER L. PHILLIPS
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10777 AMY AVENUE
FAIRFAX COUNTY, VIRGINIA 22036
TEL: 773-121-2121

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K&G DESIGN GROUP, INC.
101 South Lake Street, Suite 202
Alexandria, VA 22314
TEL: 703-444-1880
www.kgdgroup.com

AMT
AMT Environmental Services
1901 West Park Drive
McLean, VA 22102
TEL: 703-444-1880

Professional Seal
WALTER L. PHILLIPS
LANDSCAPE ARCHITECT
NO. 10777 AMY AVENUE
FAIRFAX COUNTY, VA 22036

EXISTING CONDITIONS / EXISTING VEGETATION MAP
THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
7901 WESTPARK DRIVE
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

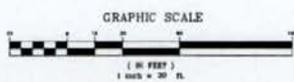
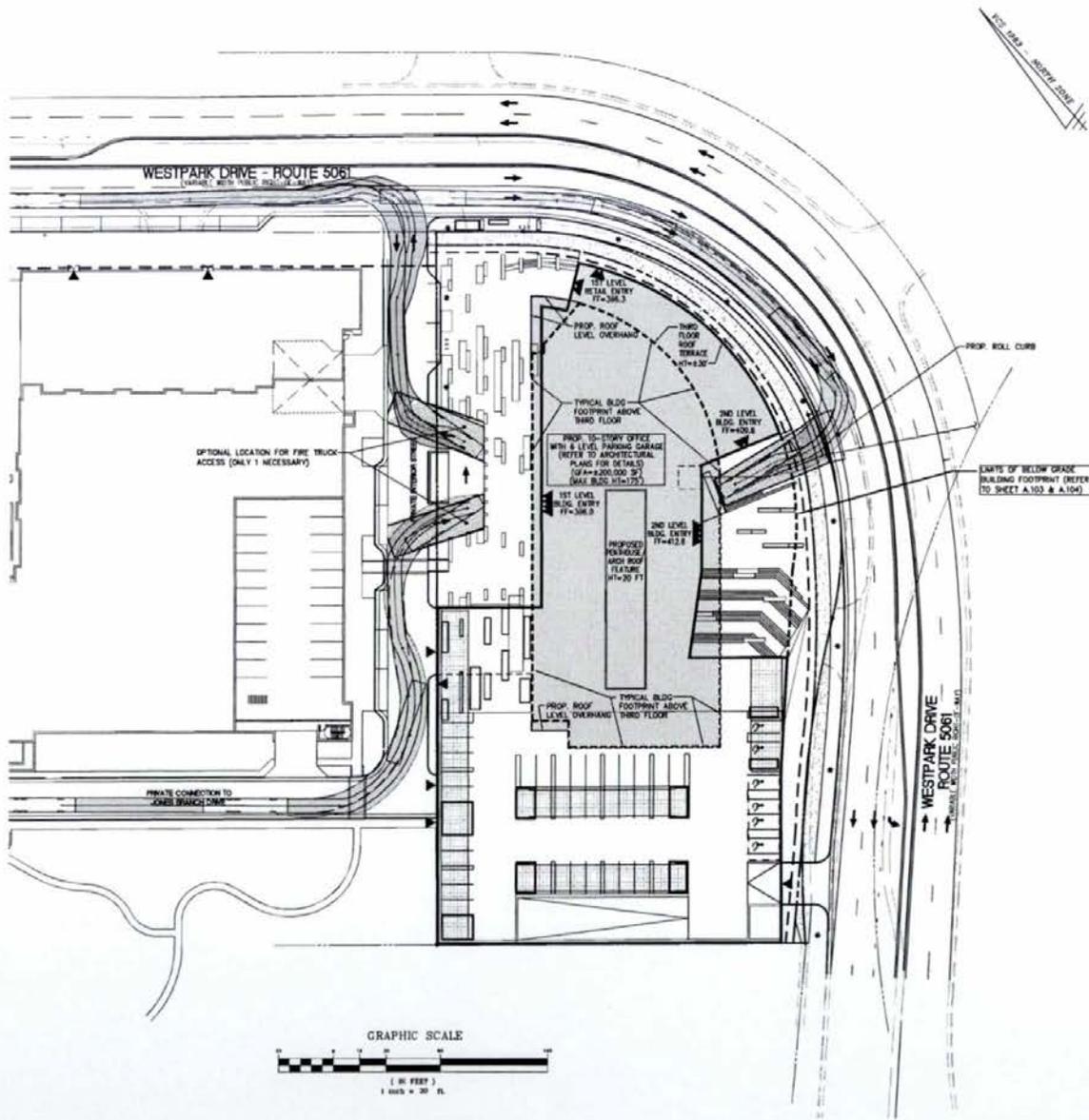
PLAN STATUS

15/09/10	COUNTY COMMENTS

DATE DESCRIPTION

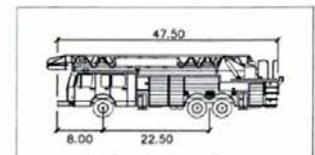
SCALE	1"=30'
JOB NO.	08038
DATE	2/24/2012
FILE NO.	08038P-0201

SHEET P.201



LEGEND

SHOWN UNDER FIRE TRUCK ZONE FOR GRAPHICAL PURPOSES ONLY AND NOT INTENDED TO BE A SPECIAL DESIGNATED CONCRETE PATTERN



Fairfax Ladder Truck

	feet
Width	: 8.00
Track	: 8.00
Lock to Lock Time	: 6.00
Steering Angle	: 40.0

WALTER L. PHILLIPS
 ARCHITECTS
 207 PARK AVENUE
 SUITE 200
 FARMERSVILLE, VA 22434
 TEL: 540-338-1100 FAX: 540-338-1101

PHILLIPS
 ARCHITECTS
 197 North Lake Drive Suite 207
 Alexandria, VA 22304
 TEL: 703-836-1100 FAX: 703-836-1101

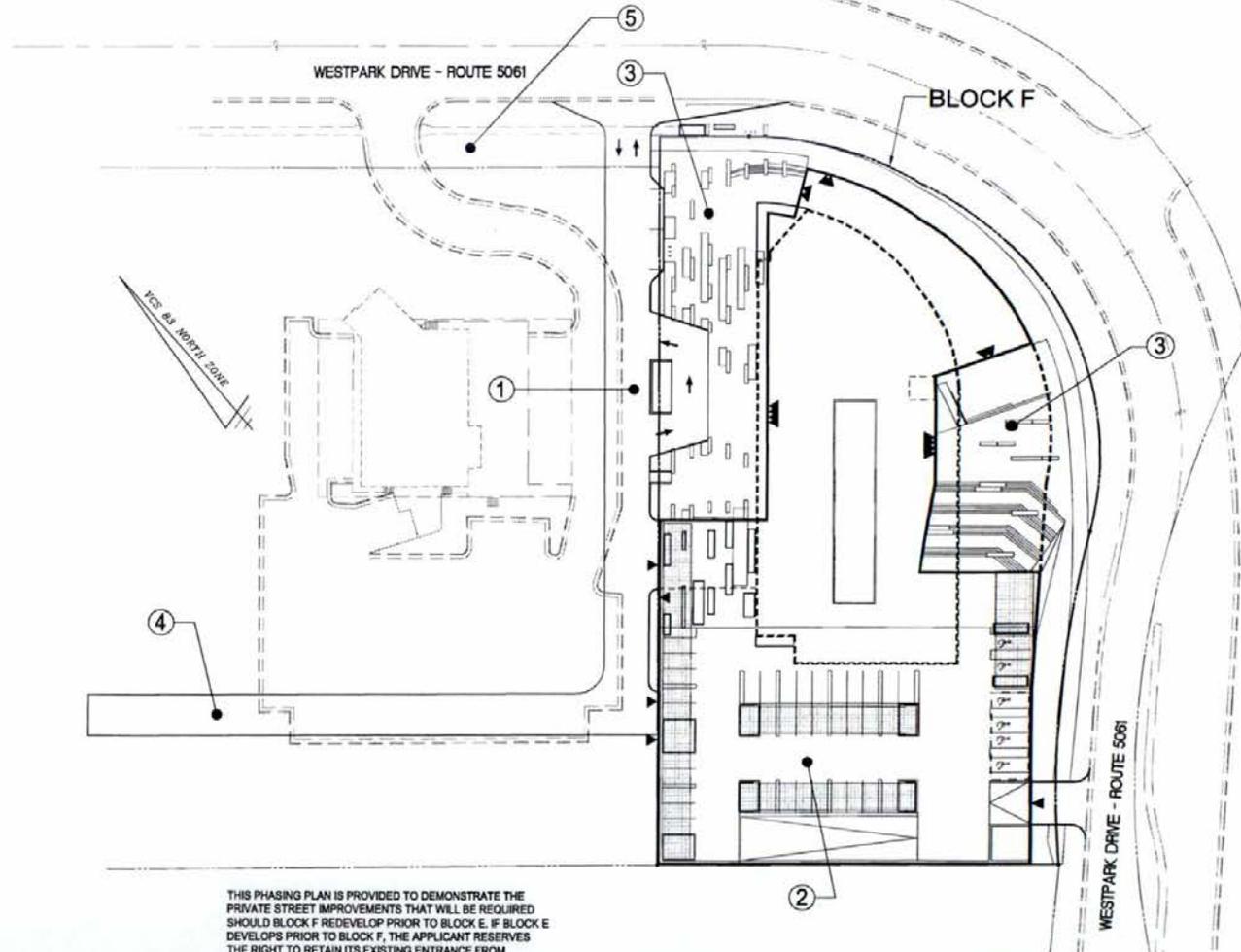
KGD
 K&G DESIGN GROUP, INC.
 1300 Market Street
 Suite 200
 Norfolk, VA 23502
 TEL: 757-261-3400 FAX: 757-261-3401

AMT
 AMT Engineering & Construction
 100 West 1st Street
 Norfolk, VA 23510
 TEL: 757-833-3300 FAX: 757-833-3301



FIRE TRUCK MOVEMENT PLAN
 THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK 'F'
 7901 WESTPARK DRIVE
 PROVIDENCE DISTRICT - FABFAX COUNTY, VIRGINIA

PLAN STATUS	DATE	DESCRIPTION
15/05/17 COUNTY COMMENTS		
15/05/17 COUNTY COMMENTS		
03/05/17 COUNTY COMMENTS		
15/05/17 COUNTY COMMENTS		
SCALE AS NOTED		
JOB NO. 0909		
DATE: 04/05/17		
FILE NO. 0909P-0300		



THIS PHASING PLAN IS PROVIDED TO DEMONSTRATE THE PRIVATE STREET IMPROVEMENTS THAT WILL BE REQUIRED SHOULD BLOCK F REDEVELOP PRIOR TO BLOCK E. IF BLOCK E DEVELOPS PRIOR TO BLOCK F, THE APPLICANT RESERVES THE RIGHT TO RETAIN ITS EXISTING ENTRANCE FROM WESTPARK DRIVE TO THE NORTH-WEST CORNER OF BLOCK F UNTIL IT COMPLETES CONSTRUCTION OF THE REDEVELOPMENT OF BLOCK F. IF VDOT PERMITS THE EXISTING ENTRANCE AND A NEW ENTRANCE FROM WESTPARK DRIVE TO BLOCK E TO BE OPEN AND IN OPERATION SIMULTANEOUSLY.

LEGEND

- ① CONSTRUCT PRIVATE DRIVE CONNECTION TO WESTPARK DR. (NOT INCLUDING WESTERN STREETSCAPE)
- ② CONSTRUCT PARKING GARAGE
- ③ CONSTRUCT OPENSPACE IMPROVEMENTS
- ④ CONSTRUCT PRIVATE DRIVE CONNECTION TO FUTURE JONES BRANCH DRIVE EXTENSION
- ⑤ REPLACE EXISTING INADEQUATE STORM SEWER IN STREET

NOTES

- 1. FINAL ROAD, CURB AND MEDIAN ALIGNMENT (INCLUDING CURB CUT, TURN LANES, MEDIAN BREAKS, PARKING, ETC.) IS SUBJECT TO CHANGE WITH FINAL ENGINEERING SITE PLAN.
- 2. EXTENT OF FRONTAGE IMPROVEMENTS THAT MAY BE CONSTRUCTED WITH INDIVIDUAL BLOCKS WILL BE DETERMINED WITH FINAL ENGINEERING INCLUDING LANE WIDENING, TRANSITIONS, MARKINGS, STREETSCAPE ETC.



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AMT
 AMT ENGINEERING
 787 West Park Drive
 Manassas, VA 20108
 (703) 861-2000
 www.amte.com

Professional Engineer Seal
 State of Virginia
 License No. 104676
 Date of Issue: 10/05/16
 Expires: 10/05/21

PHASING PLAN
 THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
 ARBOR ROW - BLOCK "F"
 7901 WESTPARK DRIVE
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
08/03/2016	COUNTY COMMENTS
11/29/2016	COUNTY COMMENTS
03/20/2017	COUNTY COMMENTS
10/05/2017	COUNTY COMMENTS

PLAN STATUS	08/03/2016	COUNTY COMMENTS
	11/29/2016	COUNTY COMMENTS
	03/20/2017	COUNTY COMMENTS
	10/05/2017	COUNTY COMMENTS
DATE	DESCRIPTION	
SCALE	1"=30'	
JOB NO.	0809	
DATE	02/04/2013	
FILE NO.	0809P-0006	
SHEET	P.308	

NOTES

1. LOCATIONS AND LIMITS OF STORMWATER MANAGEMENT FACILITIES SUBJECT TO CHANGE WITH FINAL DESIGN.
2. STORMWATER BMP'S TO BE PRIVATELY MAINTAINED.
3. PROPOSED VEGETATED SWALES MAY BE REPLACED WITH URBAN BIORETENTION.

LEGEND

- LEED BOUNDARY** 
- VEGETATED SWALE** 
- AREA CONTROLLED BY PERCOLATION TRENCH** 
- AREA CONTROLLED BY VEGETATED SWALE** 

OVERLAND RELIEF NARRATIVE

THE WEST PLAZA WILL DRAIN TO THE PRIVATE INTERIOR STREET AND FROM THERE TO WESTPARK DRIVE. THE EAST PLAZA AND NARROW STRIP BETWEEN THE PARKING GARAGE AND BUILDING AND THE SIDEWALK WILL DRAIN TOWARDS WESTPARK DRIVE. THE BUILDING WILL NOT FLOOD IN A 100-YEAR STORM AND OVERLAND RELIEF IS PROVIDED.

STORMWATER MANAGEMENT CHECKLIST

MINIMUM STORMWATER INFORMATION FOR REZONING, SPECIAL EXCEPTION, SPECIAL PERMIT AND DEVELOPMENT PLAN APPLICATIONS

The following information is required to be shown or provided in all zoning applications, or a waiver request of the submission requirement with justification shall be attached. Note: Waivers will be acted upon separately. Failure to adequately address the required submission information may result in a delay in processing this application.

The information is required under the following zoning Ordinance paragraphs:
 Special Districts (S-011 2.1 & 2.2) Special Conditions (S-011 2.3 & 2.4)
 Cluster Subdivisions (S-015 1.0 & 1.0) Commercial Redevelopment Districts (S-022 2A (1) & (1)A)
 Development Plans (S-022 3.0 & 4.0) PRC Plan (P-309 1E & 1G)
 FOP or Controls (S-022 1F & 1G) Amendments (A-022 3F & 3G)

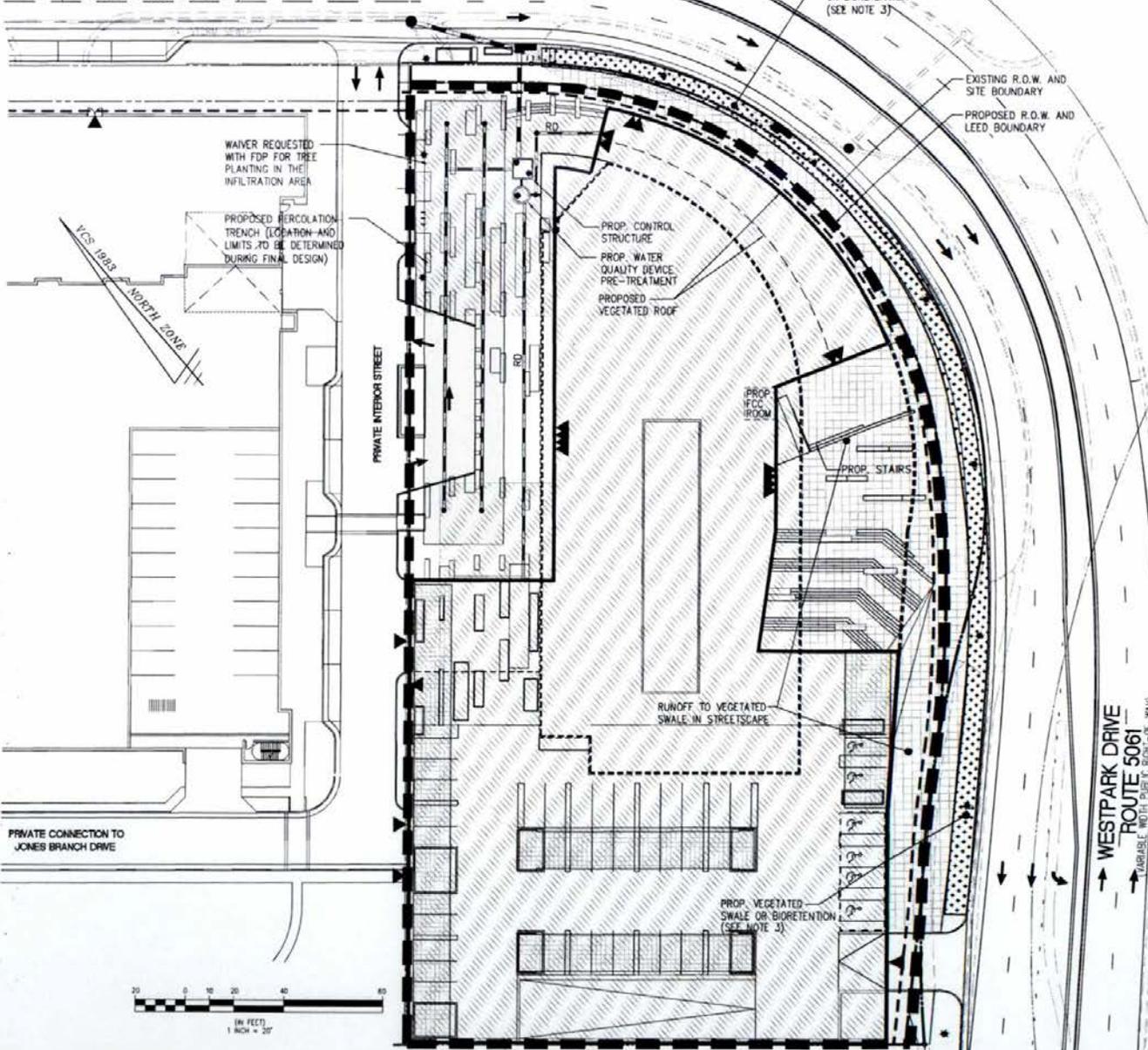
1. Plot is at a minimum scale of 1"=40' (unless it is depicted on one sheet with a minimum scale of 1"=100').
2. A graphic depicting the stormwater management facilities and basis of design and grading accompanies the stormwater management facility, storm drainage pipe systems and outlet structures, road spillways, access roads, site utilities, energy dissipation devices, and stream stabilization measures as shown on Sheet P-502.

3. Provide

Facility Name	On-site area	Off-site area	Drainage	Footprint	Storage	If pond, dam height (ft)
Type & No.	sq ft	sq ft	area (sq ft)	area (sq ft)	Volume (cu ft)	
PERCOLATION TRENCH	1.38	0	1.38	5,750	11,500	N/A
VEGETATED SWALE	0	0	0	0	0	0

4. Over storage channels, outfalls and pipe systems are shown on Sheet P-502. Pond spill and inlet pipe systems are shown on Sheet N/A.
5. Maintenance access (road) to stormwater management facilities are shown on Sheet N/A. Type of maintenance access road surface noted on the plot is N/A. (asphalt, concrete, gravel, etc.)
6. Landscaping and tree preservation shown in and near the stormwater management facility is shown on Sheet P-502.
7. A stormwater management narrative which contains a description of how retention and best management practice requirements will be met is provided on Sheet P-502.
8. A description of the existing conditions of each numbered site outlet intended downstream from the site to a point which is at least 100 ft from the site area or which has a drainage area of at least one acre (see plot sheet) is provided on Sheet P-502.
9. A description of how the outlet requirements, including contributing drainage areas of the Public Facilities Manual will be satisfied is provided on Sheet P-502.
10. Existing topography with minimum contour intervals of two (2) feet and a note as to whether it is an all survey or M&D run is provided on Sheet P-102/P-103.
11. A vegetation waiver is requested for N/A.
12. Stormwater management is not required because _____.

WESTPARK DRIVE - ROUTE 5061
 (VARIABLE WIDTH PUBLIC RIGHT-OF-WAY)



WALTER L. PHILLIPS
 ARCHITECTURE & ENGINEERING, INC.
 107 Main Street, Suite 400
 Newmarket, VA 22124
 (703) 546-1000
 Fax: (703) 553-1571

KG D
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 (703) 546-1000
 Fax: (703) 553-1571

Professional Seal
 State of Virginia
 10/26/20

STORMWATER MANAGEMENT PLAN
 THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
 7901 WESTPARK DRIVE
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

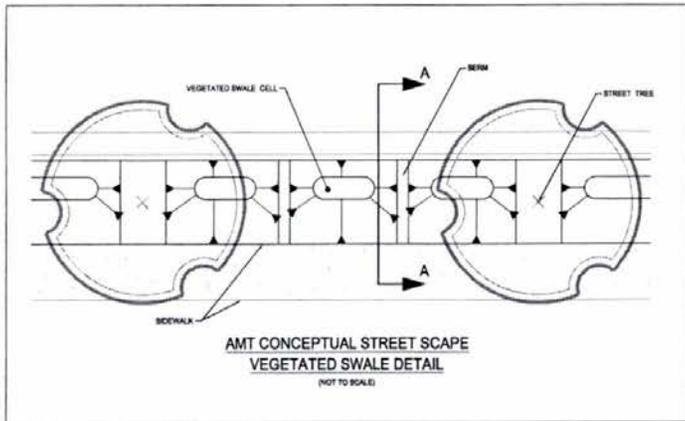
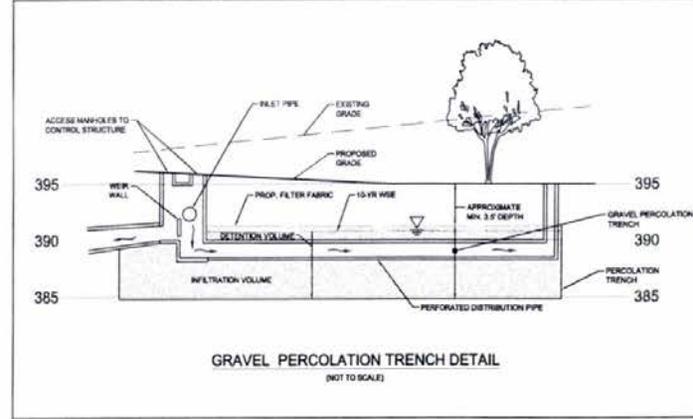
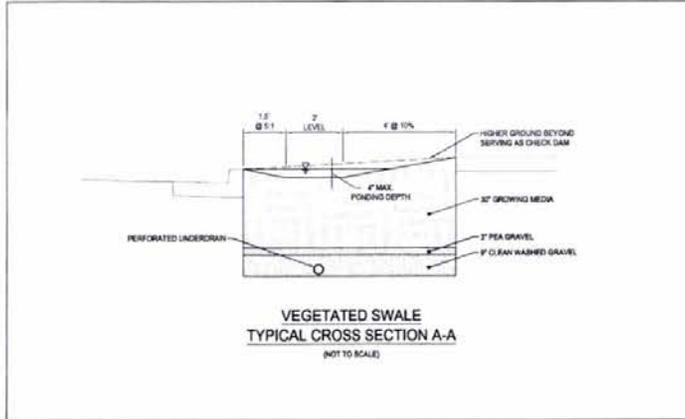
PLAN STATUS

6/26/2010	COUNTY COMMENTS
7/26/2010	COUNTY COMMENTS
8/26/2010	COUNTY COMMENTS
9/26/2010	COUNTY COMMENTS

DATE DESCRIPTION

SCALE	1"=20'
JOB NO.	6809
DATE	2/24/2010
FILE NO.	0803P-002

SHEET P.502



NOTE: VEGETATED SWALE DETAILS MAY VARY FROM THE FAIRFAX COUNTY PFM AND/OR DCR SPECIFICATIONS AS APPROVED BY THE COUNTY DPWES DURING SITE PLAN REVIEW IN ORDER TO ACCOMMODATE THE CONSTRAINTS IMPOSED BY THE STREETSCAPE APPLICATION. VEGETATED SWALES MAY BE REPLACED WITH URBAN BIORETENTION.

WALTER L. PHILLIPS
Engineers - Surveyors - Planners
Landscape Architects - Architects
10000 WOODLAWN AVENUE
FALLS CHURCH, VIRGINIA 22048
TEL: 703.261.1100 FAX: 703.261.1101
WWW.WLPINC.COM

AMT
AMT ASSOCIATES, INC.
1300 BROADWAY
FALLS CHURCH, VA 22048
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STORMWATER MANAGEMENT DETAILS
THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
7901 WESTPARK DRIVE
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	COUNTY COMMENTS
03/09/12	COUNTY COMMENTS
12/20/12	COUNTY COMMENTS
02/20/12	COUNTY COMMENTS
10/20/12	COUNTY COMMENTS

DATE	DESCRIPTION
SCALE: N/A	
JOB NO.: 08039	
DATE: 02/02/12	
FILE NO.: 08039-002	
SHEET: P.503	

GENERAL INFORMATION

THE SUBJECT SITE OF THIS APPLICATION IS THE AMT FACILITY AND IS LOCATED ON PALM PARK ROAD, 656-4-2, 2016. THIS SITE IS ADJACENT TO THE PROPOSED BLOCK "F" AS NOTED IN THE RECENTLY FILED DEVELOPMENT APPLICATION FOR APPROVAL.

EXISTING CONDITIONS

THE STORMWATER QUANTITY AND QUALITY BMP REQUIREMENTS FOR THE EXISTING SITE ARE CURRENTLY PROVIDED BY THE EASTON REGIONAL POND "C" LOCATED NORTH OF THE SITE AND ADJACENT TO THE SOUTH EAST CORNER OF THE SITE TO THE WEST. THE PROPOSED DEVELOPMENT WILL BE INTERFERED WITH STREET TREES. THE VEGETATED SWALES WILL COLLECT WATER FROM MUCH OF THE NARROW STRIP OF LAND THAT LIES BETWEEN THE PROPOSED BUILDING/PARKING GARAGE WALL AND THE STREET AS WELL AS THE RUNOFF FROM THE EAST ENTRANCE PLAZA. ACCORDING TO THE RECENT FAIRFAX COUNTY SURVEY FOR DESIGNING STORMWATER FACILITIES TO COMPLY WITH THE TYPICAL STORMWATER GOALS, DRY SWALES CAN REDUCE THE VOLUME OF STORMWATER RUNOFF BY UP TO 100%.

PROPOSED CONDITIONS

ADDITIONAL STORMWATER MANAGEMENT AND BMP MEASURES WILL BE PROVIDED ON SITE TO COMPLY WITH THE PPM REQUIREMENTS AND TYPICAL CORNER URBAN CENTER (TCU) STORMWATER GOALS ASSOCIATED WITH THIS APPLICATION.

GENERALLY, THERE ARE ADDITIONAL MEASURES THAT WILL BE ACHIEVED BY THE USE OF VEGETATED SWALES. VEGETATED SWALES ARE STRUCTURAL AND DETENTION MEASURES.

IMPACT REQUIREMENTS AND GOALS

IN ADDITION TO THE STORMWATER QUANTITY AND QUALITY GOALS IN THE COUNTY'S PUBLIC FACILITIES MANUAL (PFM) FOR BOTH URBAN CENTER AND WATER QUALITY GOALS, THERE ARE TWO STORMWATER MANAGEMENT GOALS INCLUDED IN THE PFM'S COMPREHENSIVE PLAN. GENERALLY, THESE GOALS ARE THE NEXT HIGHER OF IMPROVING AND PROTECTING THE QUALITY OF THE LEED CREDIT 5.0.1 AND 5.0.2. THESE GOALS ARE DESCRIBED IN GREAT DETAIL BELOW.

DESIGN INTENT

THE MEANS OF ACHIEVING THE COUNTY'S STORMWATER PPM REQUIREMENTS AND TYPICAL CORNER URBAN CENTER (TCU) GOALS IN THIS APPLICATION ARE SUBJECT TO CHANGE WITH THE PROJECT'S DEVELOPMENT AS APPROVED BY THE COUNTY. THE DEVELOPMENT PROJECT WILL ACHIEVE THE COUNTY'S STORMWATER REQUIREMENTS AND GOALS TO THE MAXIMUM EXTENT PERMITTED IN THIS APPLICATION THROUGH A COMBINATION OF LEED MEASURES. HOWEVER, THE COMPUTATIONS AND DETAILS ARE SUBJECT TO CHANGE DUE TO OTHER CHANGES TO THE PROJECT'S LOCATIONS AND TYPES OF LAND USES. THIS APPLICATION DEPENDS UPON THE USE OF VEGETATED SWALES IN THE WESTPARK DRIVE STREETSCAPE. THESE VEGETATED SWALES MAY BE ENVIRED BY OR INTERFERED WITH URBAN INFRASTRUCTURE IF IT IS DETERMINED TO BE MORE APPROPRIATE DURING THE PRELIMINARY OF THE PROJECT SITE PLAN. THE TERM "VEGETATED SWALES" IS USED IN THE COUNTY'S PFM. HOWEVER, THEY ARE ESSENTIALLY THE SAME THING AS DRY SWALES AS SPECIFIED BY THE VIRGINIA DCR. THE SWALES WILL BE CONSTRUCTED USING THE NATIONAL SPECIFICATION FROM THE COUNTY PFM AND LOCAL. HOWEVER, OTHER DESIGN AND CONSTRUCTION DETAILS SUCH AS FORTIFICATION MAY VARY FROM THESE STANDARDS AS APPROVED BY THE COUNTY. DUE TO THE CONSTRAINTS IMPOSED BY THE STREETSCAPE, APPLICATION WITHOUT THE NEED FOR A WAIVER FROM THE COUNTY. URBAN INFRASTRUCTURE IF LINED WILL COMPLY WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS.

STANDARD PPM SWM NARRATIVE

REQUIREMENT

IN ADDITION TO THE STANDARD COUNTY REQUIREMENTS, THE POST DEVELOPMENT PEAK RATE OF RUNOFF FROM THE 2 AND 10 YEAR STORM EVENTS SHALL NOT EXCEED THE SITE PRE-DEVELOPMENT PEAK RELEASE RATES.

COMPLIANCE

AS PREVIOUSLY MENTIONED, THE STORMWATER QUANTITY CONTROL FOR THE EXISTING SITE IS CURRENTLY PROVIDED BY THE EASTON REGIONAL POND "C" LOCATED NORTH OF THE SITE AND ADJACENT TO THE SOUTH EAST CORNER OF THE SITE. THE 2 AND 10 YEAR STORM EVENTS WILL BE INTERFERED WITH STREET TREES. THE VEGETATED SWALES WILL COLLECT WATER FROM MUCH OF THE NARROW STRIP OF LAND THAT LIES BETWEEN THE PROPOSED BUILDING/PARKING GARAGE WALL AND THE STREET AS WELL AS THE RUNOFF FROM THE EAST ENTRANCE PLAZA. ACCORDING TO THE RECENT FAIRFAX COUNTY SURVEY FOR DESIGNING STORMWATER FACILITIES TO COMPLY WITH THE TYPICAL STORMWATER GOALS, DRY SWALES CAN REDUCE THE VOLUME OF STORMWATER RUNOFF BY UP TO 100%.

STANDARD BMP NARRATIVE

REQUIREMENT

THE EXISTING DEVELOPMENT'S WATER QUALITY REQUIREMENTS ARE CURRENTLY PROVIDED BY THE EASTON REGIONAL POND "C" LOCATED NORTH OF THE SITE AND ADJACENT TO THE SOUTH EAST CORNER OF THE SITE. THE 2 AND 10 YEAR STORM EVENTS WILL BE INTERFERED WITH STREET TREES. THE VEGETATED SWALES WILL COLLECT WATER FROM MUCH OF THE NARROW STRIP OF LAND THAT LIES BETWEEN THE PROPOSED BUILDING/PARKING GARAGE WALL AND THE STREET AS WELL AS THE RUNOFF FROM THE EAST ENTRANCE PLAZA. ACCORDING TO THE RECENT FAIRFAX COUNTY SURVEY FOR DESIGNING STORMWATER FACILITIES TO COMPLY WITH THE TYPICAL STORMWATER GOALS, DRY SWALES CAN REDUCE THE VOLUME OF STORMWATER RUNOFF BY UP TO 100%.

COMPLIANCE

FOR THIS PROJECT, THE GOAL WILL BE ACHIEVED BY DETAINING RUNOFF IN A COMBINED UNDERGROUND PERCOLATION TRENCH AND DETENTION FACILITY BY STORING STORMWATER IN THE DRAINAGE PERCOLATION TRENCH ABOVE THE UNDERGROUND PERCOLATION TRENCH. THE TRENCH WILL BE CONTROL STRUCTURE. PLEASE REFER TO THE SCHEMATIC DETAIL OF THE COMBINED INFILTRATION/DETENTION FACILITY ON SHEET P-600 AND ASSOCIATED COMPUTATIONS ON THIS SHEET.

COMPREHENSIVE PLAN NARRATIVE

A. STORMWATER QUALITY REDUCTION GOAL

THERE ARE TWO RECOMMENDED STORMWATER MANAGEMENT IN THE TYPICAL CORNER URBAN CENTER COMPREHENSIVE PLAN THAT PERTAIN TO CONTROLLING THE VOLUME OF STORMWATER RUNOFF RELEASED FROM THE SITE AS FOLLOWS:

- 1. THE COMPREHENSIVE PLAN RECOMMENDS COMPLYING WITH LEED CREDIT 5.0.1 WHICH REQUIRES THAT THE POST DEVELOPMENT VOLUME OF RUNOFF BE AT LEAST 20% LESS THAN THE EXISTING RUNOFF VOLUME FOR A YEAR 24 HOUR STORM.

2. THE COMPREHENSIVE PLAN RECOMMENDS RETAINING ON SITE THE FIRST INCH OF RAINFALL TO THE MAXIMUM FEASIBLE PRACTICABLE EXTENT.

COMPLIANCE

FOR THIS PROJECT, THE GOAL WILL BE ACHIEVED BY DETAINING RUNOFF IN A COMBINED UNDERGROUND PERCOLATION TRENCH AND DETENTION FACILITY BY STORING STORMWATER IN THE DRAINAGE PERCOLATION TRENCH ABOVE THE UNDERGROUND PERCOLATION TRENCH. THE TRENCH WILL BE CONTROL STRUCTURE. PLEASE REFER TO THE SCHEMATIC DETAIL OF THE COMBINED INFILTRATION/DETENTION FACILITY ON SHEET P-600 AND ASSOCIATED COMPUTATIONS ON THIS SHEET.

1. VEGETATED GREEN ROOF

A PORTION OF THE OFFICE BUILDING ROOF IS BEING PROPOSED AS A GREEN ROOF WHICH WILL REDUCE THE OVERALL RUNOFF VOLUME FROM THE SITE.

2. VEGETATED SWALES

VEGETATED SWALES (OR DRY SWALES) ARE PROPOSED FOR THE WESTPARK DRIVE STREETSCAPE AND WILL CONSIST OF A SYSTEM OF SHALLOW SWALES DESIGNED TO TREAT STORMWATER RUNOFF. THE VEGETATED SWALES WILL BE INTERFERED WITH STREET TREES. THE VEGETATED SWALES WILL COLLECT WATER FROM MUCH OF THE NARROW STRIP OF LAND THAT LIES BETWEEN THE PROPOSED BUILDING/PARKING GARAGE WALL AND THE STREET AS WELL AS THE RUNOFF FROM THE EAST ENTRANCE PLAZA. ACCORDING TO THE RECENT FAIRFAX COUNTY SURVEY FOR DESIGNING STORMWATER FACILITIES TO COMPLY WITH THE TYPICAL STORMWATER GOALS, DRY SWALES CAN REDUCE THE VOLUME OF STORMWATER RUNOFF BY UP TO 100%.

3. RAINWATER HARVESTING

RAINWATER FROM THE OFFICE BUILDING ROOF WILL BE DIRECTED TO A CISTERN. SOME OF THIS COLLECTED RAINWATER RUNOFF WILL BE USED FOR ON-SITE IRRIGATION. THE RAINWATER RUNOFF WILL BE USED FOR ON-SITE IRRIGATION. THE RAINWATER RUNOFF WILL BE USED FOR ON-SITE IRRIGATION. THE RAINWATER RUNOFF WILL BE USED FOR ON-SITE IRRIGATION.

4. INFILTRATION

MOST OF THE SITE'S RUNOFF WILL BE DIRECTED TO THE INFILTRATION FACILITY (SEE PLAN ON SHEET P-600). THESE AREAS INCLUDE THE RUNOFF FROM THE ROOFS AND MUCH OF THE WESTERN PLAZA. THE VOLUME OF RUNOFF REDUCTION FOR A 2-YEAR STORM REQUIRED BY LEED AS WELL AS THE RUNOFF FROM A 1-RAIN EVENT FROM THE INFILTRATION AREA'S DRAINAGE AREA WILL BE TREATED ON SITE AND INFILTRATED THROUGH A PERCOLATION TRENCH.

THE RESULTS ARE SUMMARIZED BELOW:

COMPLIANCE SUMMARY

REQUIRED VOLUME REDUCTION FOR THE 2-YEAR STORM REQUIRED TO INFILTRATION TO SATISFY LEED CREDIT 4.1

NET RUNOFF VOLUME FROM A 1-RAIN EVENT AFTER RUNOFF REDUCTIONS (USED TO INFILTRATION TO SATISFY 1. REVISION 3.0.4)

RUNOFF INFILTRATION VOLUME TO COMPLY WITH COMPREHENSIVE PLAN GOALS

ESTIMATED RUNOFF INFILTRATION VOLUME (TO BE INFILTRATED WITHIN 1 DAY PER HOUR BMP HANDBOOK)

THE INFILTRATION VOLUME PROVIDED IS APPROXIMATELY 8.5% OF WHICH EXCEEDS THE REQUIRED VOLUME TO MEET THE COMPREHENSIVE PLAN GOALS. IT IS NOT NECESSARY TO RETAIN SMALL AREAS OF THE SITE PERIPHERY DUE TO REQUIRED SITE GRADING. HOWEVER, THE FULL INCH RAIN EVENT CAN BE RETAINED ON SITE BY OVER RETAINING UP TO 1.6-INCHES OF RAIN THAT FALLS ON THE BUILDING ROOF BY THE RUNOFF REDUCTION MEASURES AND COMPUTATIONS SHOWN HEREIN ARE APPROVED BY THE COUNTY. IF THE RUNOFF REDUCTION MEASURES AND/OR COMPUTATIONS SHOWN HEREIN ARE NOT APPROVED BY THE COUNTY, THE APPLICANT WILL WORK WITH THE COUNTY TO REVISION THE FIRST 1.6-INCH OF RAINFALL TO THE EXTENT PRACTICABLE IN ACCORDANCE WITH THE COMPREHENSIVE PLAN GOAL.

IN FURTHERANCE OF THE APPLICANT'S COMMENTS HEREIN AND WHILE IT INTENDS TO MEET THE LEED GOALS, THE APPLICANT INTENDS TO MEET THE BROWNSVILLE ANY COMBINATION OF LEED (EXISTING AND FUTURE) MEASURES TO MEET THIS GOAL. SUBJECT TO THE REVIEW AND APPROVAL OF OTHERS AT THE OFFICE OF THE PLANNING.

RECOMMENDATIONS THAT RUNOFF REDUCTION TECHNOLOGIES ARE RELATIVELY NEW AND STILL EVOLVING. SHOULD THE APPLICANT'S FINAL DESIGN DEVELOPMENT AND/OR OWNERS COMMENTS ON THE SITE PLAN RESULT IN CHANGES TO THE LEAD MEASURES SHOWN ON THE CONCEPT PLAN, INCLUDING BUT NOT LIMITED TO, ELIMINATION OR ADDITION OF MEASURES SO LONG AS THESE CHANGES DO NOT AFFECT THE GOALS OF THE GENERAL LOCATION OF THE POINTS OF ACCESS TO EACH BLOCK, THE GENERAL LOCATION OF THE BUILDING, THE BUILDING LINES, THE BROWNSVILLE AMOUNT AND GENERAL LOCATION OF PUBLICLY ACCESSIBLE URBAN PARK LAND AS MAY BE APPLICABLE FOR EACH BLOCK AND THE GENERAL QUALITY AND CHARACTER OF THE STREETSCAPE ALONG THE PUBLIC AND PRIVATE STREETS SERVING AND ADJUTING THE SUBJECT PROPERTY AND AS OTHERWISE SPECIFIED IN THE PROFFERS.

4. PEAK REDUCTION GOAL

TO COMPLY WITH THE LEED CREDIT 5.0.1, AS RECOMMENDED BY THE COMPREHENSIVE PLAN, THE POST DEVELOPMENT PEAK RATE OF RUNOFF FROM A 2-YEAR STORM EVENT MUST BE AT LEAST 20% LESS THAN THE EXISTING PEAK RATE.

COMPLIANCE

FOR THIS PROJECT, THE GOAL WILL BE ACHIEVED BY DETAINING RUNOFF IN A COMBINED UNDERGROUND PERCOLATION TRENCH AND DETENTION FACILITY BY STORING STORMWATER IN THE DRAINAGE PERCOLATION TRENCH ABOVE THE UNDERGROUND PERCOLATION TRENCH. THE TRENCH WILL BE CONTROL STRUCTURE. PLEASE REFER TO THE SCHEMATIC DETAIL OF THE COMBINED INFILTRATION/DETENTION FACILITY ON SHEET P-600 AND ASSOCIATED COMPUTATIONS ON THIS SHEET.

AMT DRAINAGE AREA SUMMARY

	ENTIRE SITE		LEED BOUNDARY	
Pre-Development				
Area (Acres)	1.84		1.73	
Existing Condition Imperviousness (%)	59		62	
Hydrologic Soil Group	B		B	
Runoff Curve Number (CN)	83		84	
Post-Development				
Area Of Vegetated Roof (Some of Third Floor Terrace)				
Area of Landscaped Areas	0.10	5.4	0.07	4.0
Remaining Areas	1.68	91.3	1.60	92.5
Total	1.84	100.0	1.73	100.0
CN Factors				
Green Roof (Extensive)	70		70	
Landscaped Areas	61		61	
Remaining Surface	95		95	
Weighted Average	85		85	
Onsite Drainage Area That is Treated By Off-site Vegetated Swales **	0.22	12	0	0

* HSG B soil is based on 1980 Fairfax County soil map. The 2011 County soil map lists the soil as number 95 - Urban Land which lacks a specific HSG. Use of the HSG B is conservative for these SWM computations.

** The vegetated swales will consist of a deepened streetscape area located in the Western Drive landscape amenity panel modified to treat stormwater runoff. Vegetated swales provide runoff reduction according to the recent County guidance on designing stormwater management for development in the Tysons Corner Urban Center area. The runoff reduction provided by the vegetated swales in the streetscape is accounted for in the runoff volume computations for the site area.

PEAK RUNOFF RATE COMPUTATIONS

	ENTIRE SITE (To comply with PFM)	LEED BOUNDARY (To comply with Comp. Plan)
Pre-Development		
Site Area (Ac)	1.84	1.73
Avg. Site Runoff CN	83	84
Time of Concentration	6 Min.	6 Min.
Q ₂ (cfs)	4.99	4.90
Q ₂ (ft ³ /hr)	10.20	NA
Post-Development		
Avg. Site Runoff CN	85	86
Time of Concentration	6 Min.	6 Min.
Site Area (Ac)	1.84	1.73
Q ₂ (cfs) Before Infiltration and Detention	7.54	7.24
Q ₂ (cfs) Allowable	4.99	3.68
Q ₂ (cfs) Before Infiltration and Detention	12.71	NA
Q ₂ (cfs) Allowable	10.20	NA

The peak flow Q values computed using Hydroflow software and the NRCS TR-55 method and a 24-Hr Storm

An underground detention facility combined with the percolation trench will be used to reduce post-development runoff below the allowable runoff peak rates.

LEED STORMWATER QUANTITY CREDIT COMPUTATIONS

Note: See SWM Limits map for 1.73 AC LEED boundary.

Using Graphical Peak Discharge Method
NOTE: ANOTHER METHOD OF COMPUTING RUNOFF VOLUMES MAY BE USED DURING FINAL DESIGN AS APPROVED BY FAIRFAX COUNTY.

Project: AMT WWP 2/2/2012

Existing Conditions

Date: Drainage Area: 1.73 Acres

Runoff Curve Number: 84

S=1000CN-10 = 190

Time of Concentration: 0.1 Hours

Rainfall Type: 8

Pond and Swamp Area: None

Storm Number: 1 2 3

Frequency (Yrs): 1 2 10

24-Hr Rainfall (in): 2.7 3.2 5.2

Runoff (in): 1.27 1.68 3.45

TOTAL RUNOFF VOLUME (EXISTING CONDITIONS)

1 YR STORM: 1.73 AC X 1.27 IN X 1.11129 X 43560 = 7,996 CF

2 YR STORM: 1.73 AC X 1.68 IN X 1.11129 X 43560 = 10,955 CF

** The vegetated swales will consist of a deepened streetscape area located in the Western Drive landscape amenity panel modified to treat stormwater runoff. Vegetated swales provide runoff reduction according to the recent County guidance on designing stormwater management for development in the Tysons Corner Urban Center area. The runoff reduction provided by the vegetated swales in the streetscape is accounted for in the runoff volume computations for the site area.

Proposed Conditions

Date: Drainage Area: 1.73 Acres

Runoff Curve Number: 96

S=1000CN-10 = 0.67

Time of Concentration: 0.1 Hours

Rainfall Type: 8

Pond and Swamp Area: None

Storm Number: 1 2 3

Frequency (Yrs): 1 2 10

24-Hr Rainfall (in): 2.7 3.2 5.2

Runoff (in): 2.21 2.70 4.66

TOTAL RUNOFF VOLUME (PROPOSED CONDITIONS)

1 YR STORM: 1.73 AC X 2.21 IN X 1.11129 X 43560 = 13,878 CF

2 YR STORM: 1.73 AC X 2.70 IN X 1.11129 X 43560 = 18,655 CF

TOTAL RUNOFF VOLUME (ALLOWABLE RELEASE)

PER LEED, FOR SITES THAT HAVE GREATER THAN 50% IMPERVIOUS COVER IN THE EXISTING CONDITION, THE POST-DEVELOPED STORMWATER RUNOFF VOLUME FOR THE 2-YEAR STORM CANNOT EXCEED THE EXISTING CONDITIONS VOLUME LESS 25%.

2-YEAR STORM REQUIRED VOLUME REDUCTION:

18,655 CF LESS 75% OF 10,955 CF = 9,032 CF

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(DRAFT) Tysons Corner Comprehensive Plan Stormwater Conformance Checklist

Project: **ARBOR ROW - BLOCK F**
 Submitted by: **WALTER L. PHILLIPS, INC.** Date: **05/25/12**
 Received by: _____ Date: _____

An amendment to the Comprehensive Plan for Fairfax County envisions a new Tysons Corner Urban Center. The Board of Supervisors adopted the new Plan for Tysons Corner on June 12, 2010. Included within the Environmental Stewardship section of the Plan are recommendations for stormwater management practices intended to protect receiving waters downstream of Tysons Corner and reduce runoff from impervious surfaces using a progressive approach to stormwater management. Achieving a goal of retaining on-site and/or reusing the first inch of rainfall will ensure that runoff characteristics associated with the site will meet those of a good forest condition for a significant majority of rainfall events. (The adopted Comprehensive Plan Amendment can be downloaded at this link: <http://www.fairfaxcounty.gov/development/plan2010/>.)

This checklist provides a tool for county staff, submitting engineers, and development teams to assist in the preparation and review of stormwater plans in Tysons Corner. Using this checklist as the conceptual and final design phases is encouraged to ensure that the adopted stormwater management goals are integrated into each plan's stormwater management strategies early in the design process and implemented at final design.

A stormwater management narrative* is provided and explains how the proposed stormwater management strategy will comply with the goals of the Tysons Corner Comprehensive Plan Amendment, Environmental Stewardship Guidelines for Stormwater including, as a minimum, the following stormwater goals:

NE 401
 The narrative describes how infiltration BMPs and/or rainwater harvesting will be used and if not used, demonstrates why they are not practicable. This is in support of the goal that states: "At a minimum, management and water quality controls for redevelopment projects in Tysons should incorporate innovative stormwater management measures in a manner that will, first and foremost, optimize reduction of stormwater runoff volume in the single most important stormwater design objective for Tysons."
P.504

The narrative describes how the first 1 inch of rainfall will be retained onsite and if not fully achievable, demonstrates why it is not practicable. This supports the goal that states: "At a minimum, the first inch of rainfall should be retained on-site through infiltration, rainwater harvesting and/or reuse. If, in a given site, the retention on-site of the first inch of rainfall is demonstrated not to be fully achievable, all available measures should be implemented to the extent possible in order to support this goal and achieve partial retention of the first inch of rainfall."
P.504

*NOTE: Strategies described in the narrative are to be shown in separate files, as the CDP, PDR, and the plan.

The narrative describes how runoff reduction practices will be used, or if not, then demonstrated to not be practicable as a strategy toward meeting the stormwater goal "Redevelopment projects in Tysons should incorporate innovative stormwater management measures in a manner that will, first and foremost, optimize reduction of stormwater runoff volume and control of peak flows for the remaining stormwater that cannot be completely captured on-site."
P.504

The narrative describes how the project will meet or slightly beat the LERED stormwater credits in support of the goal "In a minimum, stormwater management measures that are sufficient to attain both the stormwater design-quality control and stormwater design-quality control credits of the most current version of the LERED-DC or LERED-DC rating system for the equivalent of three credits should be provided. If, in a given site, the attainment of the stormwater design LERED credit for regrading is demonstrated not to be fully achievable, all available measures should be implemented to the extent possible in support of this goal."
P.504

If stormwater goals are not fully achievable onsite, the narrative describes how off-site or shared stormwater alternatives will be used to meet all, or a part, of the stormwater goals. This supports the goal that states: "Appropriate off-site or shared stormwater management on multiple development sites and/or off-site controls. Additional stormwater management efforts should be encouraged."
P.504

The narrative describes how low impact development (LID) techniques are incorporated into the street design in order to satisfy the goal: "LID techniques of stormwater management should also be incorporated into new and redesigned streets where allowed and practicable."
P.504

The narrative describes opportunities for stream restoration in accordance with the goal: "Restoration and/or stabilization of degraded streams on development sites should be pursued where feasible. Restoration and stabilization techniques that incorporate ecologically and aesthetically beneficial, vegetated approaches are preferred. Off-site efforts to restore and/or stabilize streams in Tysons Corner should also be encouraged. The above guidelines are intended to improve stormwater management controls sufficiently to allow for improvements to the habitat and recreational values of streams in Tysons Corner through natural restoration processes and/or through restoration projects."
P.504

The target stormwater treatment volume is calculated as 1 inch of rainfall over the entirety of the property that is subject to the zoning application, including areas planned for dedication as public rights-of-way.
P.505

Will the design include new and innovative stormwater practices? If yes, describe:
P.502

Will the design provide safe and adequate access to the inlet structure, outlet structure and around the perimeter of the stormwater BMP facilities as needed for inspection, maintenance, and repair?
P.502

Will the proposed design create a safe environment for the public?
P.502

Is the project to be designed and constructed in phases? If yes, does the narrative and site address how phasing will impact stormwater management and how stormwater goals will be met in the interim and ultimate build-out conditions?
P.502

Is a PDM modification or waiver request anticipated? If yes, describe:
P.502

REDUCE PERCOLATION TRENCH SET BACK FROM BUILDING

If used, will stormwater vaults be located where they do not adversely impact the landscape amenity panel and sidewalk zone?
P.502

If used, will stormwater vaults be located where they can be readily accessed by equipment (e.g. vacuum truck) and maintenance personnel?
P.502

One or more infiltration BMPs have been proposed (i.e. infiltration practice, bioinfiltration with infiltration, permeable pavement with infiltration, etc.)?
P.502

If yes, has a soil analysis been completed or sufficient documentation provided to demonstrate site conditions are suitable for infiltration? Prior to final design the PDM requires a soils analysis be prepared and infiltration tests conducted by a licensed professional engineer with experience in geotechnical engineering and soil evaluation, a certified professional and scientist, or a certified professional geologist. A minimum field measured infiltration rate of 0.32 inches per hour is required for infiltration. The design infiltration rate shall be half of the field measured rate (PDM 6.104.4 and PDM 6.107.4).
P.504

Will all of the runoff from the site's first inch of rainfall be captured by infiltration (BMP)? If yes, the plan meets the Comprehensive Plan goal to retain the first 1 inch onsite. If no, continue to the next checklist item. Additional BMPs are needed to help meet the Comprehensive Plan goal.
P.502

Does the plan propose rainwater harvesting that captures some, or all, of the first inch runoff? Using rainwater harvesting as a stormwater storage measure, year-round demand that will draw down the storage cistern to make capacity available for the next storm. Which of the following zones are proposed?
P.502

Lawn (short mowing, summer year-round)
 Equipment washing (year-round)
 Cooling tower make-up water (seasonal)
 Laundry (summer year-round)
 Irrigation (seasonal)
 Other
P.504

If the final design of the rainwater harvesting (RWH) system, sufficient documentation will be provided to support demand assumptions and covers including the following:
P.504

A continuous simulation model for sizing the storage cistern (Virginia TCK spreadsheet or equal) using local historic daily rainfall data for the site and demand assumptions for the drawdown assuming seasonal and other demand variations.
P.504

The RWH system design will include a first flush (first 0.05 inches of rainwater) bypass to protect water quality, an overflow and/or bypass system for large events, and additional storage capacity as a factor of safety.
P.504

In cases of reduced demand or overflow, the RWH system will discharge to a BMP or adjacent channel.
P.504

If the RWH system will be connected to provide stormwater detention (in addition to reuse), then adequate volume for the design storm will be provided with supporting calculations including runoff for the 2 and 10-year storm, outfall to an adequate channel, and provision for overflow event.
P.504

Instead of reuse with the design outfall roof runoff and discharge it directly to a BMP (i.e. infiltration, bioinfiltration, detention practice, landscape feature, simple retention basin, etc.)?
P.502

Does the RWH system alone, or in combination with infiltration practices, manage the volume of runoff from the first 1 inch of rainfall over the entire site? If yes, the plan meets the Comprehensive Plan goal to retain the first 1 inch onsite. If no, continue to the next checklist item. Additional BMPs are needed to help meet the Comprehensive Plan goal.
P.502

Will runoff reduction BMPs with underdrains and a subsurface stone storage layer be used to capture and treat some, or all, of the runoff from the first 1 inch of rainfall for the entire site?
P.502

Will the design of runoff reduction practices conform to the PDM and Virginia DCR Stormwater Design Specifications found at the Virginia BMP Clearinghouse Website?
P.502

Does the total volume treated by infiltration, RWH system, and runoff reduction BMPs - either alone or in combination - meet or exceed the volume of runoff from the first 1 inch of rainfall over the entire site? If yes, the plan meets the Comprehensive Plan goal to retain the first 1 inch onsite. If no, continue to the next checklist item. Additional BMPs are needed to help meet the Comprehensive Plan goal.
P.504

If the stormwater goals are not fully achievable using the stormwater practices listed above, then innovative BMPs that have been approved for use in other jurisdictions may be used to meet the stormwater goals. Are any other new and innovative BMP practices proposed that will reduce runoff volume and/or control peak flows for the first 1" of runoff?
P.504

If yes, have the proposed new and innovative practices been accepted for use in another jurisdiction? If so, what is the name of the jurisdiction(s) where the practice has been accepted?
P.502

Will the plan and calculations include a runoff reduction and/or total phosphorus removal rate that has been assigned by another jurisdiction? (Fairfax County will verify runoff reduction rates, efficiencies, and/or removal rates with the named jurisdiction).
P.502

Will the innovative practices proposed be appropriate for use in Fairfax County considering local soils, climate patterns, availability of materials, cost of maintenance, and other factors?
P.502

Will the plans and documentation include recommended maintenance procedures and frequency of inspection for the innovative practices?
P.502

Does the total volume treated by infiltration, RWH, runoff reduction BMPs, and Tier 2 practices - either alone or in combination - meet or exceed the volume of runoff from the first 1 inch of rainfall over the entire site? If yes, the plan meets the Comprehensive Plan goal to retain the first 1 inch onsite. If no, continue to the next checklist item. Additional BMPs are needed to help meet the Comprehensive Plan goal.
P.504

Will the plan propose any other new and innovative practices that are not within the PDM, previously approved for use by Fairfax County, Virginia BMP Clearinghouse, or approved for use in another jurisdiction? (If yes, then adequate documentation should be included for the county to evaluate the innovative practice).
P.504

If yes, will the innovative practice(s) proposed be appropriate for use in Fairfax County considering local soils, climate patterns, availability of materials, cost of maintenance, and other factors?
P.502

Will the plans and documentation include recommended maintenance procedures and frequency of inspection for the innovative practices?
P.502

Does the total volume treated by infiltration, RWH, runoff reduction BMPs, and Tier 2 practices - either alone or in combination - meet or exceed the volume of runoff from the first 1 inch of rainfall over the entire site? If yes, the plan meets the Comprehensive Plan goal to retain the first 1 inch onsite. If no, continue to the next checklist item. Additional BMPs are needed to help meet the Comprehensive Plan goal.
P.504

Will shared, or off-site stormwater management facilities be used to manage some, or all, of the runoff from the first 1 inch of rainfall for the entire site? If so, where will the off-site facilities be located?
P.502

If yes, proposed shared/off-site practices include:
 Infiltration
 Rainwater harvesting
 Runoff reduction practices
 Other
P.504

Will the proposed design manage the first 1 inch of rainfall in a way that infiltrates, treats, or captures rainfall before it leaves the site? If yes, the plan meets the Comprehensive Plan goal to retain the first 1 inch onsite.
P.502

Will the proposed design optimize runoff reduction by employing runoff reduction stormwater practices (i.e. rainwater harvesting, infiltration, bioinfiltration, permeable pavement, green roof, etc.) to the extent possible?
P.502

If the "1-inch" goal cannot be fully achieved, has it been demonstrated that all available measures were considered for implementation "to the extent possible" to achieve total or at least partial retention of the first inch of rainfall?
P.504

If retaining the runoff from the first 1 inch of rainfall is not fully achieved, does the proposed design control peak flow for that which cannot be retained onsite?
P.504

Has runoff from events been addressed, either through innovative BMPs and low impact development techniques that would be integrated into the street design or through other means?
P.504

If street runoff has not been addressed, does the stormwater narrative justify why this is not feasible, relevant, and/or practicable?
P.504

If applicable, in retention and/or stabilization of degraded streams proposed using restoration and stabilization techniques that incorporate ecologically and aesthetically beneficial, vegetated approaches (including off-site efforts to restore and/or stabilize streams in Tysons Corner)?
P.504

Does the narrative address how the proposed stormwater management strategy will comply with requirements of the Public Facilities Manual (PFM)? This should include, as a minimum:
P.502

The adequate channel requirements of PFM 6-020
P.502

The stormwater detention requirements of PFM 6-030
P.504

The water quality requirements of PFM 6-040
P.504

The overlaid relief requirements of PFM 6-100
P.502

REMARKS: _____

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STORMWATER MANAGEMENT CHECKLIST
 THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
 7901 WESTPARK DRIVE
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
SCALE	NA
JOB No.	0919
DATE:	05/25/12
FILE No.	0919-053
SHEET	P.506

July 30, 2012

Mr. Louis G. Hovarth
The Association for Manufacturing Technology
2900 Whippoorwill Drive
Falls Church, Virginia 22041-0006

Subject: **Remedial In-Situ Infiltration Report, The Association for Manufacturing Technology, 2901 Woodburn Drive, Millersville, Fairfax County, Virginia (Dor 12009)**

Dear Mr. Hovarth:

GeoConcepts Engineering, Inc. (GeoConcepts) is pleased to provide the following report which addresses issues prepared for The Association for Manufacturing Technology, 2901 Woodburn Drive, Millersville, Fairfax County, Virginia.

We appreciate the opportunity to provide our professional services on this project. Please do not hesitate to contact me if you have any questions or need to schedule a meeting and thank you for the opportunity to provide our professional services on this project.

Sincerely,
GeoConcepts Engineering, Inc.

Paul E. Burnett, PE
Principal
2901 Woodburn Drive, Suite 101
Millersville, VA 22041-0006

GeoConcepts Engineering, Inc.

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- 1.0 Scope of Services
- 2.0 Site Description and Proposed Construction
- 3.0 Subsurface Conditions
 - 3.1 Geology
 - 3.2 Stratification
 - 3.3 Groundwater
 - 3.4 Infiltration Analysis
 - 3.5 Recommended Design Infiltration Rate
- 4.0 Engineering Analysis
- 5.0 General Limitations

Figure 1 - Measuring Hole
APPENDIX A - Test Logs
APPENDIX B - Laboratory Test Results

GeoConcepts Engineering, Inc.

1.0 Scope of Services

This report presents the results of the field investigations, soil laboratory testing, and engineering analysis of the groundwater site. This report specifically provides a recommended design infiltration rate for remediation management based on the results of the field investigations and soil laboratory testing. Services not specifically identified as the scope of this project are not included in the scope of services.

2.0 Site Description and Proposed Construction

The site is currently developed with an existing 3-story masonry building, with associated surface asphalt parking areas. The site is underlain by a shallow water table with about elevation 91.79 at the northwest corner to about 81.40 at the southeast corner. We understand that an underground infiltration system is planned for the subsurface portion of the site, with a design flow of about 0.342 cfs.

3.0 Subsurface Conditions

Subsurface conditions were investigated by drilling a total of four test borings to the proposed infiltration rate. Test boring logs and a boring location plan are presented in Appendix A of this report.

3.1 Geology

The site was under the Piedmont Physiographic Province of Virginia. The Piedmont is bounded to the east by the Blue Ridge Physiographic Province and to the west by the Blue Ridge Physiographic Province. The Piedmont is composed of highly resistant metamorphic and igneous rocks. Surface topography in the Piedmont is the result of millions of years of erosion. Surface topography in the Piedmont is the result of millions of years of erosion. Surface topography in the Piedmont is the result of millions of years of erosion.

The existing field logs of borings B-1 through B-4 were obtained from previous site development. The underlying material was identified as either residual soil or bedrock based on the physical and chemical weathering of the underlying bedrock.

3.2 Stratification

The subsurface material encountered has been identified for purposes of our discussion herein. These material designations do not imply that the material encountered are continuous across the site. Stratification designations have been established by characteristic similar stratification conditions based on material gradation and general geology. The subsurface material encountered in the test borings comprised of the layers have been assigned to the following units.

- Soil Unit A (Soil) - fine to very fine sand and silt, silty sand, silty clay, FSL, med. to heavy
- Soil Unit B (Soil) - fine to medium, silty sand (S) and silt with 3-17 (S), sandstone, iron, iron, med. white

The test sites designated included in the test borings presented above and on the test boring log represent the tested soil stratification system. (S) is a soil type used in the test boring log. The test samples were analyzed per ASTM D-2867 and soil classification per ASTM D-2868. It should be noted that soil classification per ASTM D-2868 may not match classifications determined by laboratory testing per ASTM D-2487.

3.3 Groundwater

Groundwater observations were made in the field during drilling and up to 24 hours after the completion of the test borings. Larger test borings were installed in temporary observation standpipes installed in test borings B-1 to B-7. Groundwater was not encountered in the test borings. Accordingly, groundwater should be at least 15 feet below the proposed infiltration rate.

4.0 Engineering Analysis

Investigations regarding subsurface management by infiltration are presented below.

4.1 Infiltration Analysis

The analysis was done to determine infiltration capabilities on the subject site under proposed testing and published conditions, with soil characteristics, taking into account the in-situ conditions and classification test techniques, the estimated infiltration rates from the available test logs, and the recommended design infiltration rate for the site under proposed testing.

4.1.1 Measured Infiltration Test Results

In-situ infiltration tests were performed in the field at various test logs at which water was permitted to fall under unconfined conditions. Three test borings were drilled in the area of planned infiltration. Test borings were installed in test borings B-1, B-2, and B-3. Infiltration tests were conducted in test borings B-1, B-2, and B-3. The purpose of the tests was to provide a range of test hole depths, after which the test hole was filled with water to simulate the test hole conditions. The following table shows the test hole depth, the test hole depth, and the test hole depth. The test hole was filled with water to simulate the test hole conditions. The following table shows the test hole depth, the test hole depth, and the test hole depth.

Test Boring No.	Approximate Test Depth (feet)	Measured Field Infiltration Rate (Inches/Hour)
B-1A	13.0	12.0
B-1B	13.0	0.3
B-1C	15.0	0.4
B-1D	15.0	0.0
B-1E	16.0	0.0
B-1F	18.0	0.0

This table shows the test hole depth, the test hole depth, and the test hole depth. The test hole was filled with water to simulate the test hole conditions. The following table shows the test hole depth, the test hole depth, and the test hole depth.

4.1.2 Classification Test Results

The classification test method is performed with grain size analysis including hydrometer testing and classification from representative proposed infiltration system. The test results are presented in the following table. The test results are presented in the following table. The test results are presented in the following table.

Test Boring No.	Approximate Test Depth (feet)	USDA Soil Texture Classification	Estimated Infiltration Rate (Inches/Hour)
B-1A	13.0-13.9	sandy loam	1.0
B-1B	13.9-14.9	clay loam	1.0
B-1C	14.9-15.9	clay	0.3

4.1.3 Recommended Design Infiltration Rate

Based on the results of the in-situ infiltration tests in B-1A, B-1B, and B-1C, and soil laboratory classification, we recommend that a design infiltration rate of 0.342 inches per hour be used for design of infiltration systems. It should be noted that the recommended design infiltration rate presented herein is intended for use in design. However, during construction, adjustments to the infiltration rate should be made to confirm that the infiltration rate is consistent with the soil conditions in the report.

5.0 General Limitations

Recommendations contained in this report are based upon the data provided that are relatively limited number of test borings. This report does not reflect conditions that may occur between the test borings, or between existing records and test borings. The nature and extent of variations between test borings and existing records may not become known until the course of construction. Therefore, it is advised that an infiltration system be constructed during the construction phase to determine if a modification of the recommendations in this report must be made. It is critical to the successful completion of this project that GeoConcepts be retained during construction to observe the implementation of the recommendations presented herein.

This report has been prepared to assist in the evaluation of the test site and to assist you after the design information in the design of this project. It is intended for use with regard to the test site project as a reference herein. Changes in project conditions, ground water, drainage loads, etc. should be brought to our attention so that we may determine any other site or circumstances presented herein.

An alternate should be established for additional tests that may be required for foundation and drainage construction as contemplated in this report. Additional tests may be required for various reasons including soil moisture, soil nitrogen analysis, unconfined compressive strength, rock content, etc.

The report should be made available to assist you in determining their property to supply water with field related to the subsurface conditions revealed by test borings and the results of analysis and studies that have been performed for this project. In addition, this report should be kept in the record books and maintained as they are intended to be.

We understand the report specifications under the following conditions: A professional engineering report has been prepared for this project by GeoConcepts Engineering, Inc. This report is for informational purposes only and should not be considered part of the contract documents. The opinion expressed in this report is that of the professional engineer and represents the design of the project. The report is for informational purposes only and should not be considered part of the contract documents. The opinion expressed in this report is that of the professional engineer and represents the design of the project.

This report was prepared in accordance with generally accepted geotechnical engineering practices. No warranties, expressed or implied, are made in or on professional services rendered in this report.

We appreciate the opportunity to be of service for this project. Please contact the undersigned if you require clarification of any aspect of this report.

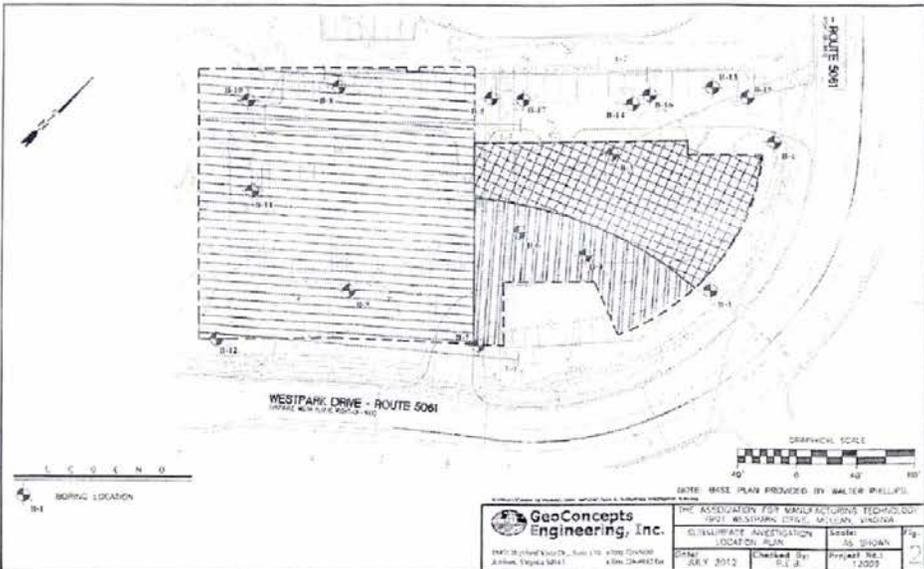
Sincerely,
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THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
2901 WOODBURN DRIVE, MILLERSVILLE, VIRGINIA
LOCATION PLAN
Scale: AS SHOWN
Project No.: 12009
Date: JULY 2012
Checked By: P.E. J.

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INFILTRATION LETTER

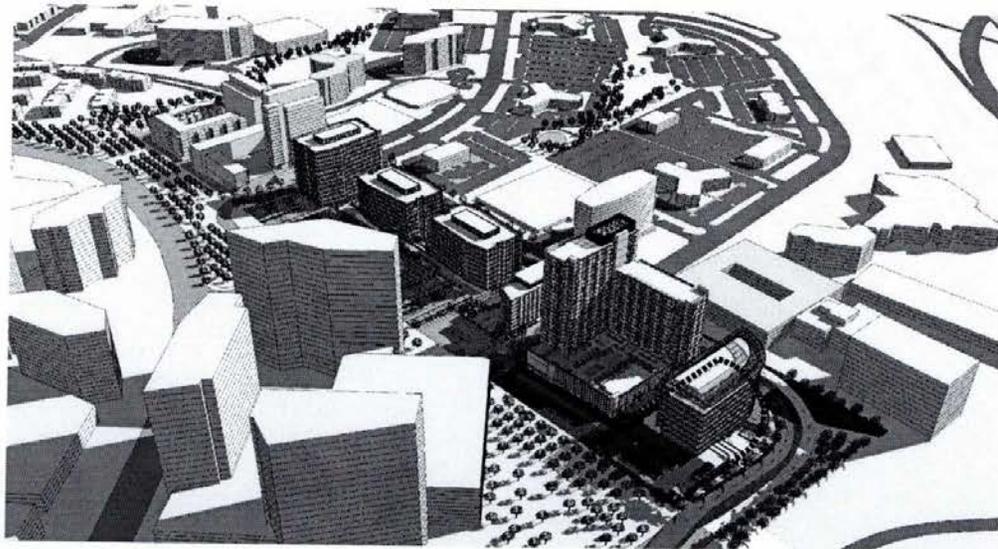
THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
7901 WESTPARK DRIVE
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
SCALE	NA
JOB NO.	09019
DATE:	06/05/12
FILE NO.	09019-003

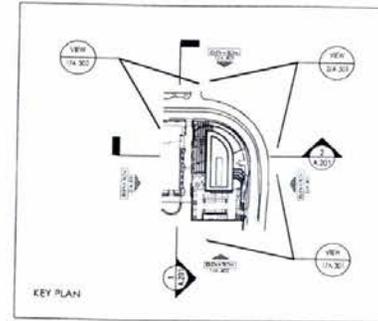
SHEET P.507



2 AERIAL VIEW FROM CAPITAL BELTWAY
A.010



1 AERIAL VIEW FROM TYSONS BLVD.
A.010



KEY PLAN

LEGEND

■■■■■■■■■■ BLOCK F BOUNDARY LINE

NOTES

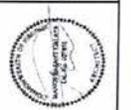
1. ARCHITECTURAL DESIGN AND LANDSCAPE FEATURES SHOWN ARE SUBJECT TO MODIFICATIONS, PROVIDED THAT THE GENERAL DESIGN STRATEGY, QUALITY AND CHARACTERISTICS OF THE PROJECT ARE MAINTAINED AND IN SUBSTANTIAL CONFORMANCE WITH THE CDP. THE EXACT LOCATION, SHAPE AND SIZE OF THE PROPOSED BUILDING, WINDOWS, TERRACES, PLAZAS, PRIVATE DECKS AND PARKING STRUCTURE SHOWN ON THE GRAPHIC ARE SUBJECT TO ADJUSTMENT AND REFINEMENT WITH FINAL ENGINEERING AND ARCHITECTURAL DESIGN SO LONG AS THEY REMAIN IN SUBSTANTIAL CONFORMANCE WITH THE CDP.

2. THE FINAL PERSPECTIVES AND MATERIALS WILL VARY TO MEET BUILDING CODE AND SUSTAINABILITY REQUIREMENTS.

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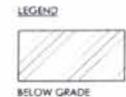
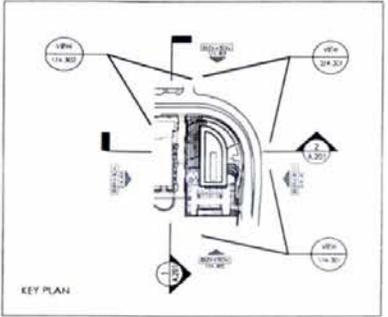
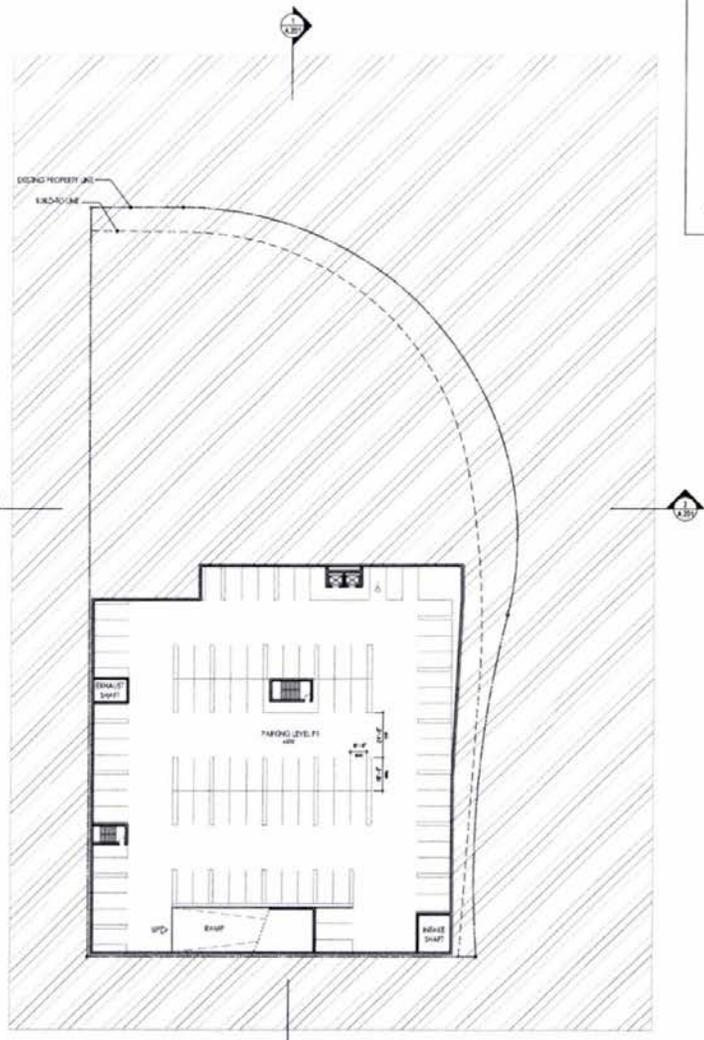
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ILLUSTRATIVE CONTEXTUAL AERIAL VIEWS
THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
7901 WESTPARK DRIVE
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
06/20/12	COUNTY COMMENTS
07/20/12	COUNTY COMMENTS
09/20/12	COUNTY COMMENTS

DATE	DESCRIPTION
06/20/12	SCALE AS NOTED
06/20/12	JOB NO. 06039
06/20/12	DATE: 2/24/2012
06/20/12	FILE NO.



- NOTES**
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 2. SLAB & ROOF ELEVATIONS ARE SUBJECT TO CHANGE WITH FINAL DESIGN BUT WILL NOT EXCEED MAXIMUM HEIGHTS LISTED.
 3. SEE LANDSCAPE DRAWINGS FOR EXTENT OF ROOF AND STREETSCAPE DESIGN.
 4. SEE CIVIL DRAWINGS FOR STORM WATER MANAGEMENT AND STREET DESIGN.
 5. PARKING SPACE LAYOUT IS SUBJECT TO CHANGE WITH FINAL ARCHITECTURAL DESIGN BUT WILL NOT EXCEED MAXIMUM LIMITS LISTED.

1 P1 LEVEL PLAN
A.101 1" = 30'-0"



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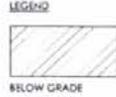
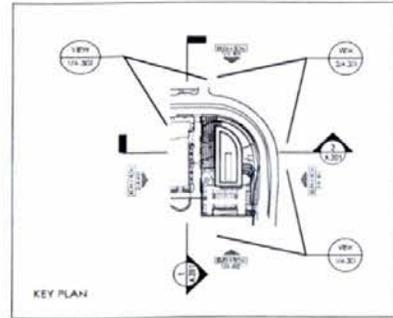
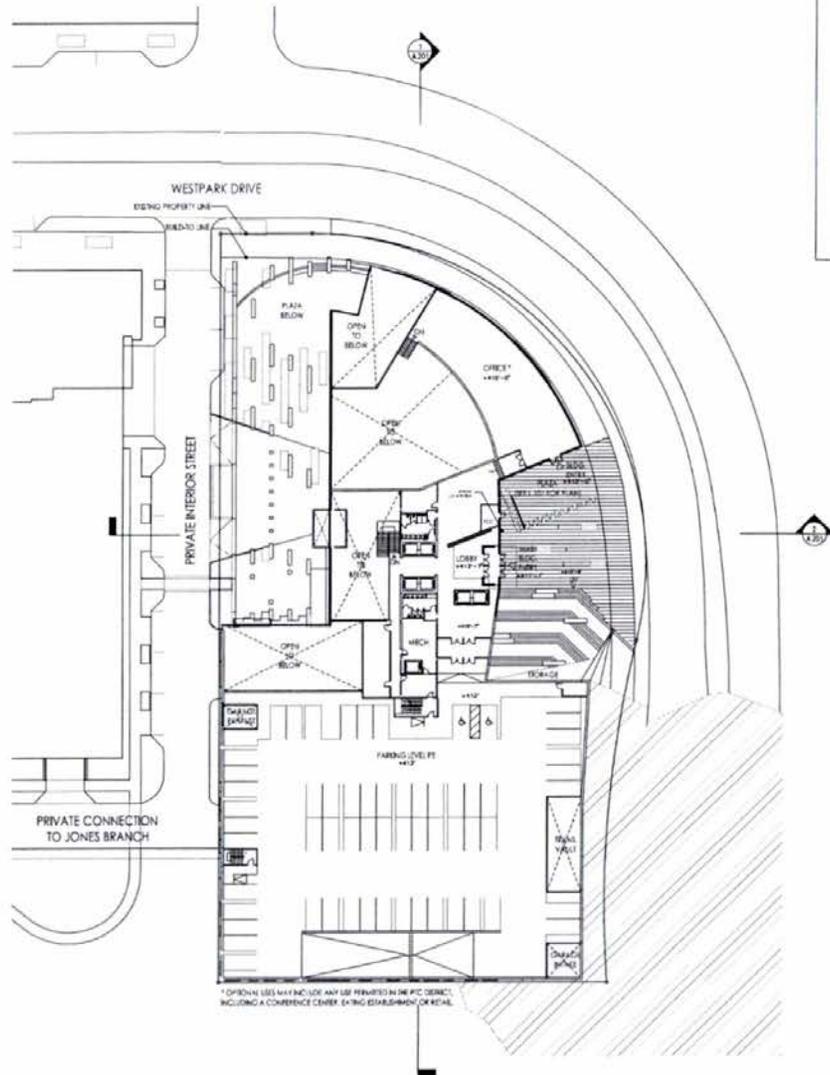
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ILLUSTRATIVE P1 LEVEL PLAN
THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
7901 WESTPARK DRIVE
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
03/20/12	COUNTY COMMENTS

FOR INFORMATION ONLY



- NOTES**
1. ARCHITECTURAL DESIGN AND LANDSCAPE FEATURES SHOWN ARE SUBJECT TO MODIFICATIONS, PROVIDED THAT THE GENERAL DESIGN STRATEGY, QUALITY AND CHARACTERISTICS OF THE PROJECT ARE MAINTAINED AND IN SUBSTANTIAL CONFORMANCE WITH THE COP. THE EXACT LOCATION, SHAPE AND SIZE OF THE PROPOSED BUILDING, WINDOWS, TERRACES, PLAZAS, PRIVATE DECKS AND PARKING STRUCTURE SHOWN ON THE GRAPHIC, ARE SUBJECT TO ADJUSTMENT AND REFINEMENT WITH FINAL ENGINEERING AND ARCHITECTURAL DESIGN SO LONG AS THEY REMAIN IN SUBSTANTIAL CONFORMANCE WITH THE COP.
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 3. SEE LANDSCAPE DRAWINGS FOR EXTENT OF ROOF AND STREETSCAPE DESIGN.
 4. SEE CIVIL DRAWINGS FOR STORM WATER MANAGEMENT AND STREET DESIGN.
 5. PARKING SPACE LAYOUT IS SUBJECT TO CHANGE WITH FINAL ARCHITECTURAL DESIGN BUT WILL NOT EXCEED MAXIMUM LIMITS LISTED.

1 P5 / SECOND FLOOR LEVEL PLAN
A.105 1" = 30'-0"

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PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

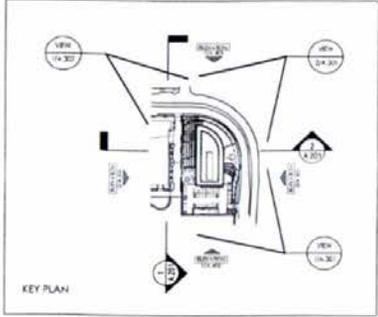
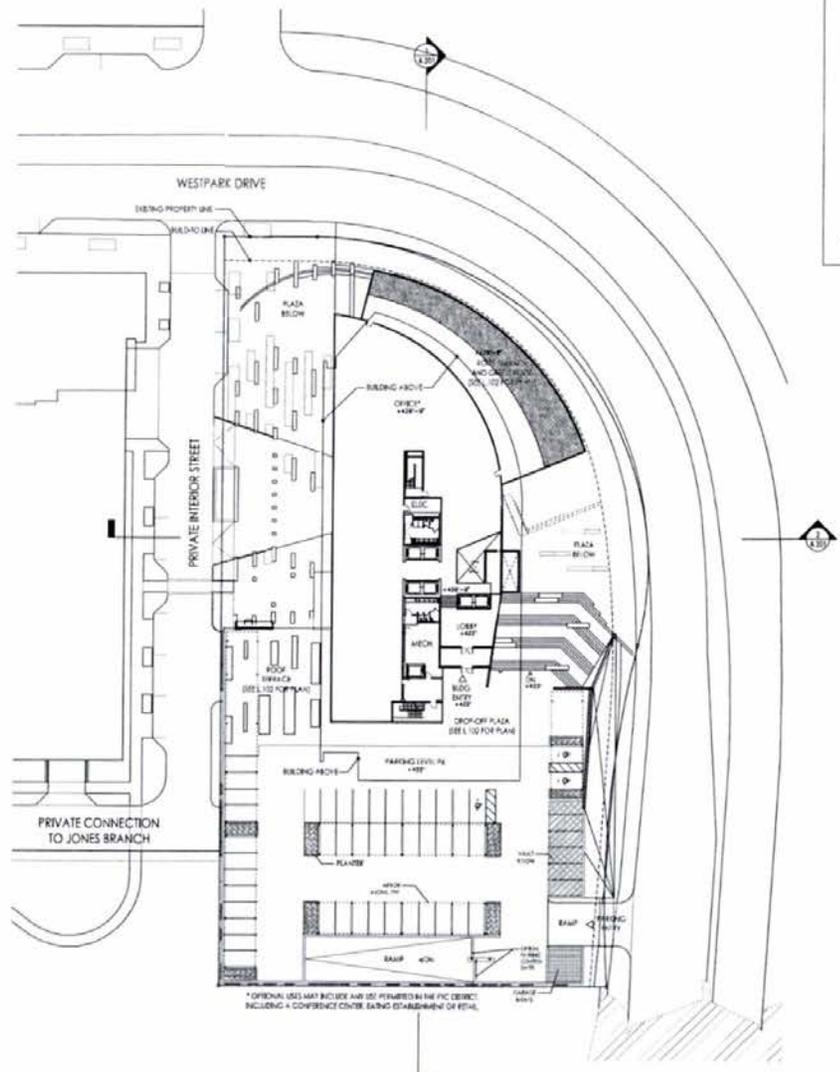
PLAN STATUS

10/26/11	COUNTY COMMENTS
11/22/11	COUNTY COMMENTS
02/02/12	COUNTY COMMENTS
03/02/12	COUNTY COMMENTS
04/02/12	COUNTY COMMENTS

DATE	DESCRIPTION
SCALE	AS NOTED
JOB NO.	0809
DATE	02/08/12
P.E. NO.	

FOR INFORMATION ONLY SHEET A.105

File No. 12-21 Top Map No. 074 Job No. 0809 Cont. (Eng. File)



LEGEND



BELOW GRADE

NOTES

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1 P6 / THIRD FLOOR LEVEL PLAN
A.106
1" = 30'-0"

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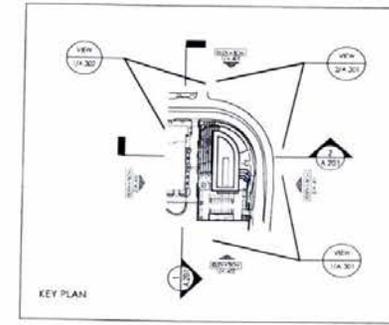


ILLUSTRATIVE P6 / THIRD FLOOR LEVEL PLAN
THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
7901 WESTPARK DRIVE
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	
03/2012	COUNTY COMMENTS
DATE	DESCRIPTION
SCALE	AS NOTED
JOB NO.	0620
DATE	2012/01/12
FILE NO.	



2 VIEW FROM CAPITAL BELTWAY



KEY PLAN



1 VIEW FROM TYSONS BLVD.

- NOTES**
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 2. SLAB & ROOF ELEVATIONS ARE SUBJECT TO CHANGE WITH FINAL DESIGN BUT WILL NOT EXCEED MAXIMUM HEIGHTS LISTED.
 3. ARCHITECTURAL FEATURES TO INCLUDE THE ROOF FEATURE AND ROOFTOP SCREEN FEATURES SHOWN ARE NOT COUNTED AS GFA IN THE TAX CALCULATIONS.
 4. THE NUMBER OF FLOORS MAY VARY BUT OVERALL BUILDING HEIGHT WILL NOT EXCEED MAXIMUM BUILDING HEIGHT LISTED.
 5. THE FINAL PERSPECTIVES AND MATERIALS WILL VARY TO MEET BUILDING CODE AND SUSTAINABILITY REQUIREMENTS.

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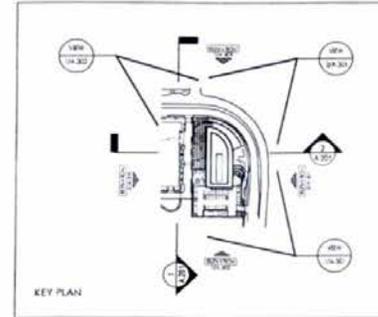
ILLUSTRATIVE SITE PERSPECTIVES
 THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
 7901 WESTPARK DRIVE
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
02/06/2012	COUNTY COMMENTS
07/20/2012	COUNTY COMMENTS
02/06/2012	COUNTY COMMENTS
02/06/2012	COUNTY COMMENTS

DATE	DESCRIPTION
SCALE	AS NOTED
JOB NO.	06038
DATE	02/06/2012
FILE NO.	



1
A.302
VIEW FROM WESTPARK DRIVE



NOTE

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5. THE FINAL PERSPECTIVES AND MATERIALS WILL VARY TO MEET BUILDING CODE AND SUSTAINABILITY REQUIREMENTS.

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Landscape Architecture • Interiors
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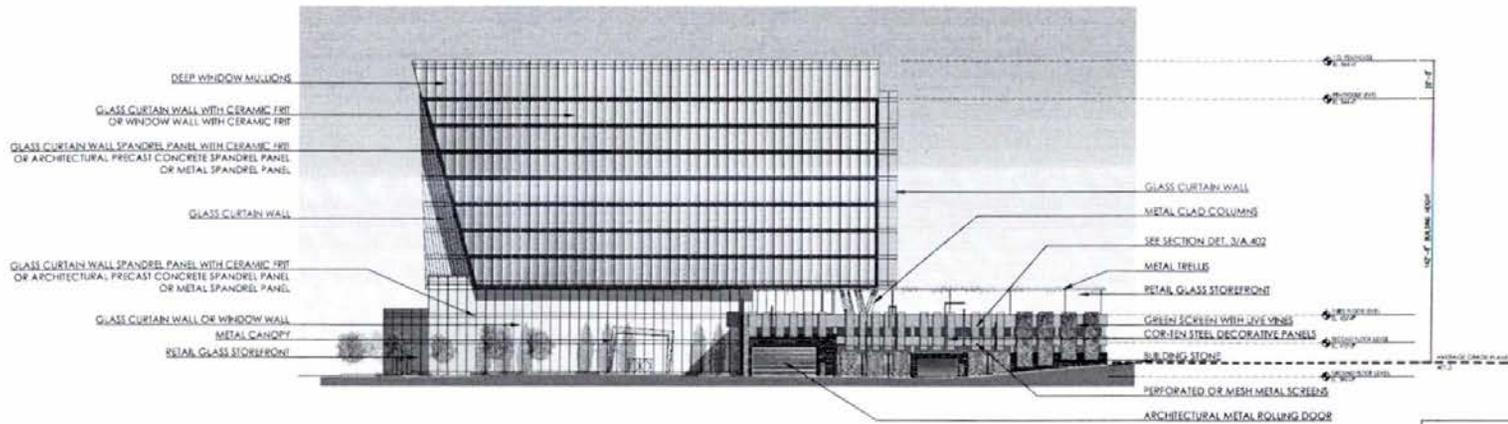
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MUMFORD, NY 14241
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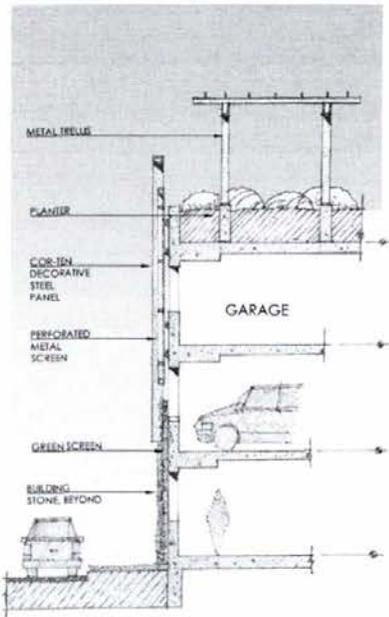


ILLUSTRATIVE SITE PERSPECTIVES
THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
7901 WESTPARK DRIVE
PROVIDENCE DISTRICT - FARRAX COUNTY, VIRGINIA

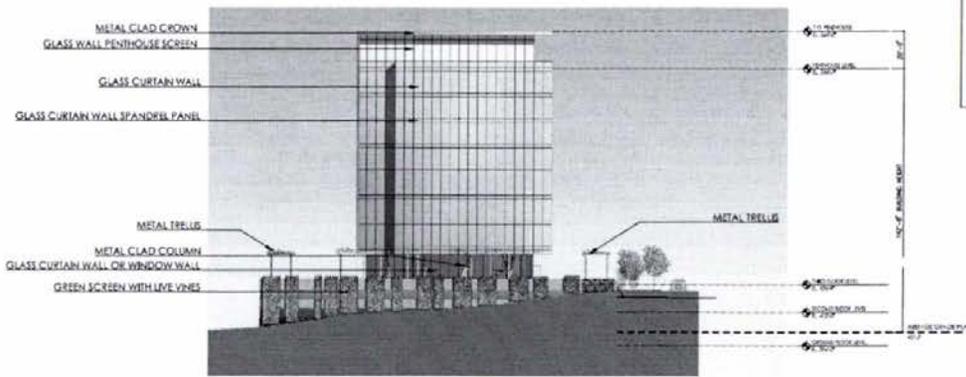
PLAN STATUS	
SUSPENDED COUNTY COMMENTS	
PLANNING COUNTY COMMENTS	
APPROVED COUNTY COMMENTS	
APPROVED COUNTY COMMENTS	
DATE	DESCRIPTION
SCALE	AS NOTED
JOB NO.	88039
DATE	2/24/2012
FILE NO.	
SHEET	A.302



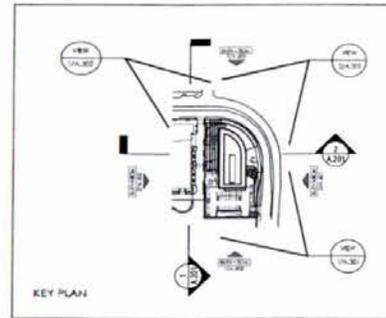
2 WEST ELEVATION
1" = 30'-0"



3 WALL SECTION DETAIL AT GARAGE
3/16" = 1'-0"



1 SOUTH ELEVATION
1" = 30'-0"



KEY PLAN

NOTES

1. ARCHITECTURAL DESIGN AND LANDSCAPE FEATURES SHOWN ARE SUBJECT TO MODIFICATIONS, PROVIDED THAT THE GENERAL DESIGN STRATEGY, QUALITY AND CHARACTERISTICS OF THE PROJECT ARE MAINTAINED AND IN SUBSTANTIAL CONFORMANCE WITH THE CDP. THE EXACT LOCATION, SHAPE AND SIZE OF THE PROPOSED BUILDING, WINDOWS, TERRACES, PLAZAS, PRIVATE DECKS AND PARKING STRUCTURE SHOWN ON THE GRAPHIC ARE SUBJECT TO ADJUSTMENT AND REFINEMENT WITH FINAL ENGINEERING AND ARCHITECTURAL DESIGN SO LONG AS THEY REMAIN IN SUBSTANTIAL CONFORMANCE WITH THE CDP.
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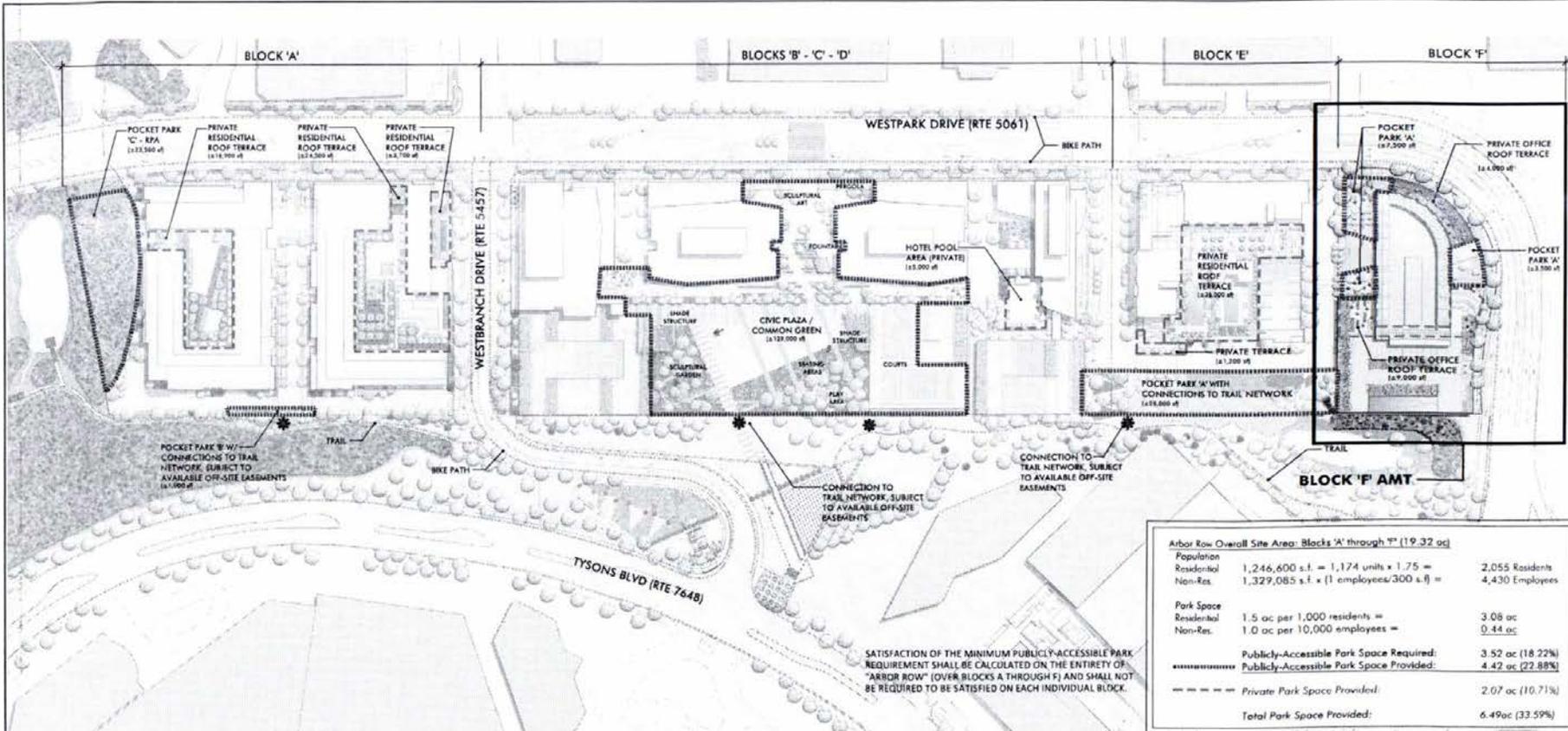
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ILLUSTRATIVE BUILDING ELEVATIONS
THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
7901 WESTPARK DRIVE
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA



DATE	DESCRIPTION
07/20/12	COUNTY COMMENTS

SCALE	AS NOTED
JOB NO.	0809
DATE	05/06/12
FILE NO.	
SHEET	A.402

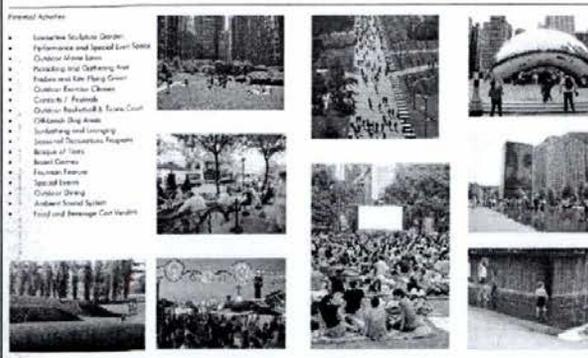


Arbor Row Overall Site Area: Blocks 'A' through 'F' (19.32 ac)

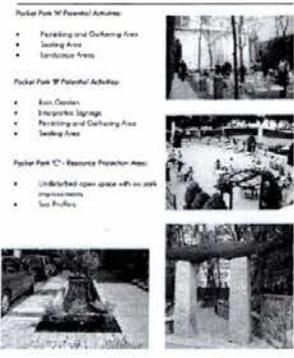
Population Residential	1,246,600 s.f. = 1,174 units x 1.75 =	2,055 Residents
Non-Res.	1,329,085 s.f. (1 employee/300 s.f.) =	4,430 Employees
Park Space Residential	1.5 ac per 1,000 residents =	3.08 ac
Non-Res.	1.0 ac per 10,000 employees =	0.44 ac
Publicly-Accessible Park Space Required:		3.52 ac (18.22%)
Publicly-Accessible Park Space Provided:		4.42 ac (22.88%)
Private Park Space Provided:		2.07 ac (10.71%)
Total Park Space Provided:		6.49 ac (33.59%)

SATISFACTION OF THE MINIMUM PUBLICLY-ACCESSIBLE PARK REQUIREMENT SHALL BE CALCULATED ON THE ENTIRETY OF "ARBOR ROW" (OVER BLOCKS A THROUGH F) AND SHALL NOT BE REQUIRED TO BE SATISFIED ON EACH INDIVIDUAL BLOCK.

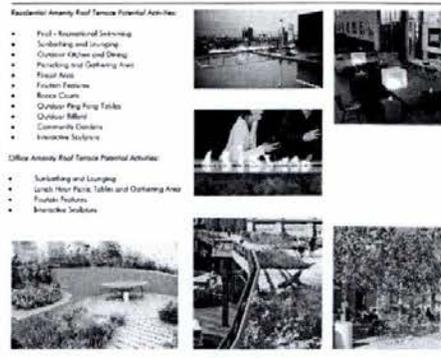
COMMON GREEN / CIVIC PLAZA - a flexible open space with event lawn areas, serving as the recreation and social focus of a neighborhood or larger community. Limited area gathering space reflecting public art and large enough to support casual entertainment use as well as community events. Serves as a focal point and anchor surrounding urban or quiet purpose and commercial supporting activities.



POCKET PARKS - small scale open spaces designed for casual use by people working and living in the immediate area.



PRIVATE AMENITY ROOF TERRACES - provide outdoor amenity space for residents and workers of residential building and office complexes.



BLOCK 'F' (AMT SITE) FDP CALCULATIONS

Overall Site Area 80,001 sf (1.84 ac)

Population Residential: 0	
Retail:	± 2,156 sf
Office:	± 197,844 sf
Publicly-Accessible Park Space:	± 11,000 sf (0.25 ac)
Private Open Space Provided*:	± 13,000 sf (0.30 ac)
Total Open Space Provided*:	± 24,000 sf (0.55 ac)

*For reference only.

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.



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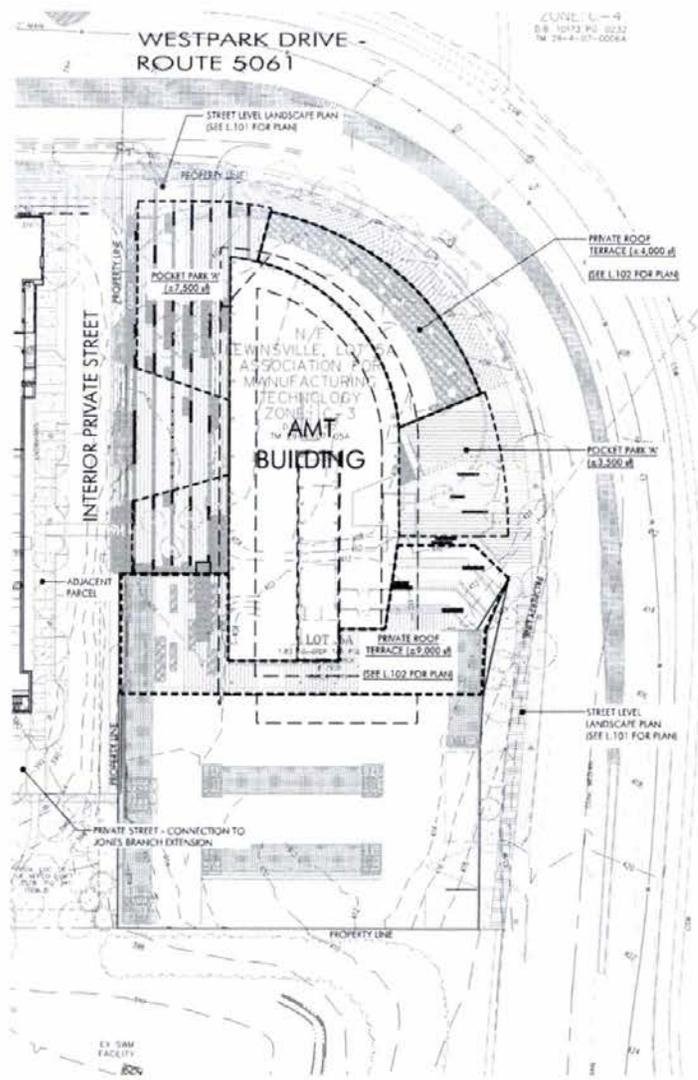
URBAN PARKS PLAN
THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK 'F'
7901 WESTPARK DRIVE
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS

05/25/12	PER COUNTY COMMISSION
07/23/12	PER COUNTY COMMISSION
08/02/12	PER COUNTY COMMISSION
10/26/12	PER COUNTY COMMISSION

DATE	DESCRIPTION
SCALE	1" = 80'-0"
JOB No.	
DATE	February 24, 2012
P.L.E. No.	

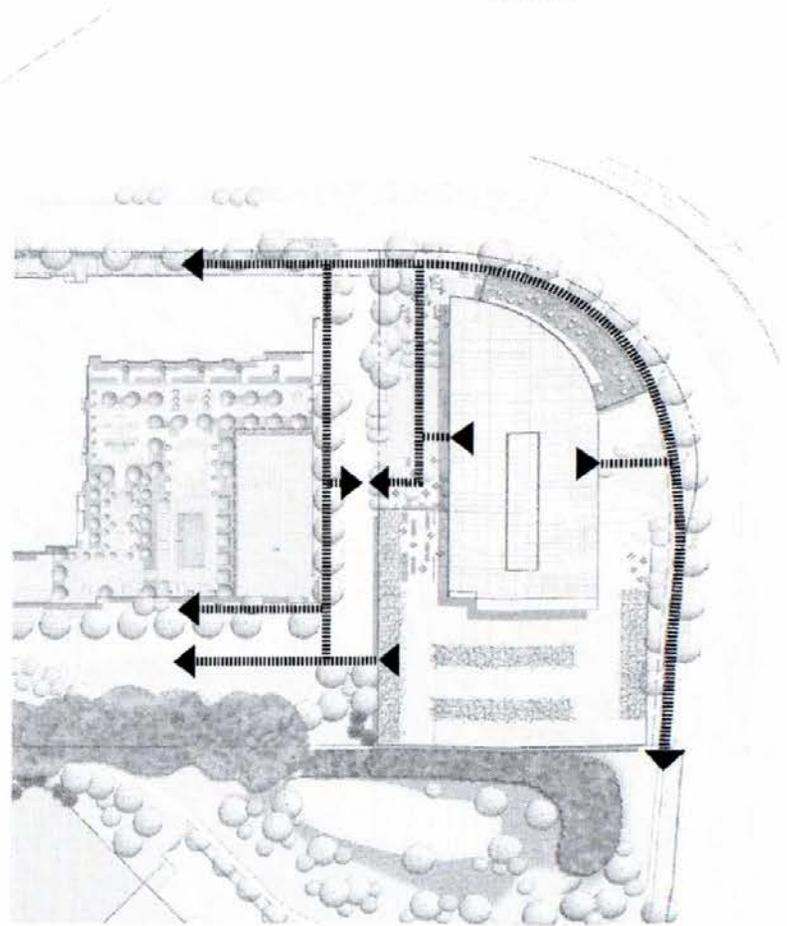
SHEET **L_001**



1 REFERENCE LANDSCAPE PLAN
SCALE: 1" = 20'-0"



- LANDSCAPE NOTES:
1. THE PROPOSED LANDSCAPE WILL BE USED TO MEET THE MINIMUM TREE COVER REQUIREMENTS. LOCATIONS, SPECIES AND QUANTITIES MAY BE ADJUSTED WITH FINAL DESIGN.
 2. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED AT SITE PLAN.
 3. REFER TO SHEET LS 01 FOR PLANT SPECIES SCHEDULE



2 PEDESTRIAN CIRCULATION PLAN
SCALE: NTS

THE PLAN AND BRAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.



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100 Main Street, Suite 100
Martinsville, VA 22114
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www.kgd.com

REFERENCE LANDSCAPE PLAN
THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
7901 WESTPARK DRIVE
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

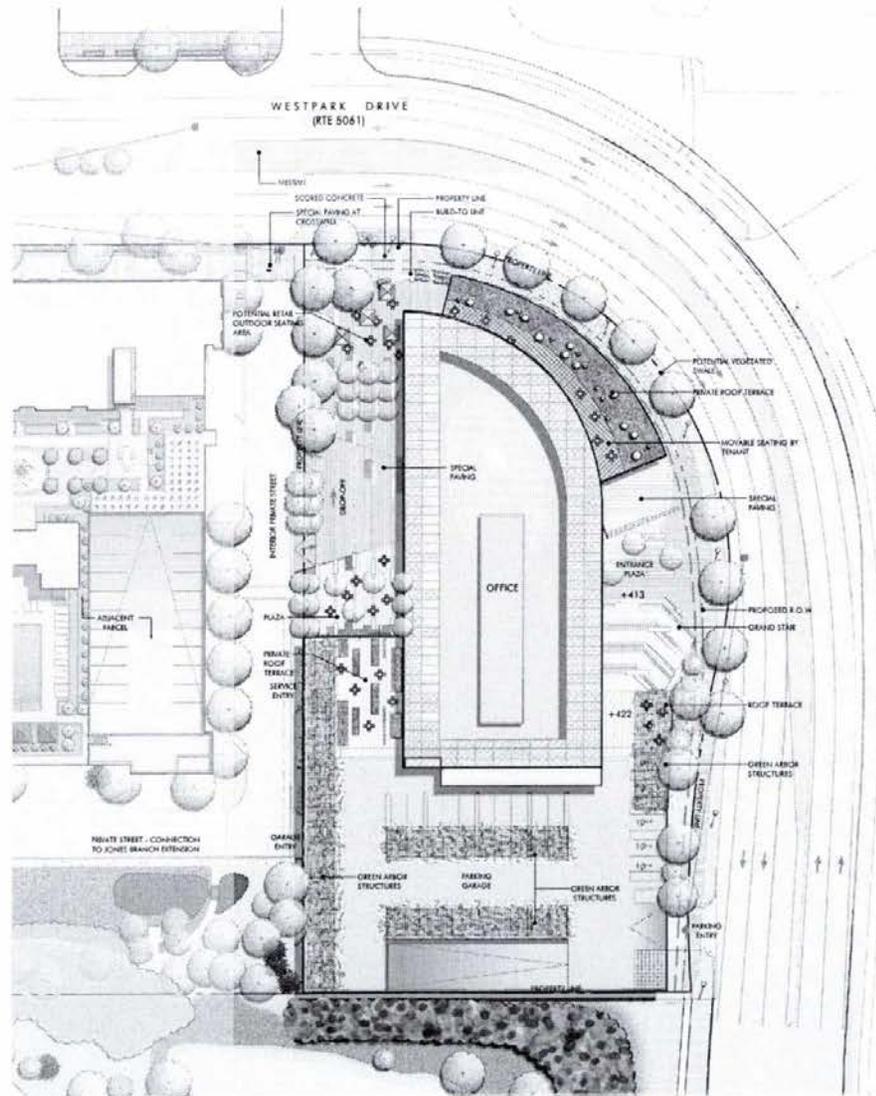
DATE	DESCRIPTION
09/25/12	PER COUNTY COMMENTS
11/02/12	PER COUNTY COMMENTS
02/09/13	PER COUNTY COMMENTS
10/09/12	PER COUNTY COMMENTS

SCALE: 1" = 20'-0"

DATE: February 24, 2012

FILE No.

SHEET **L.002**



THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.



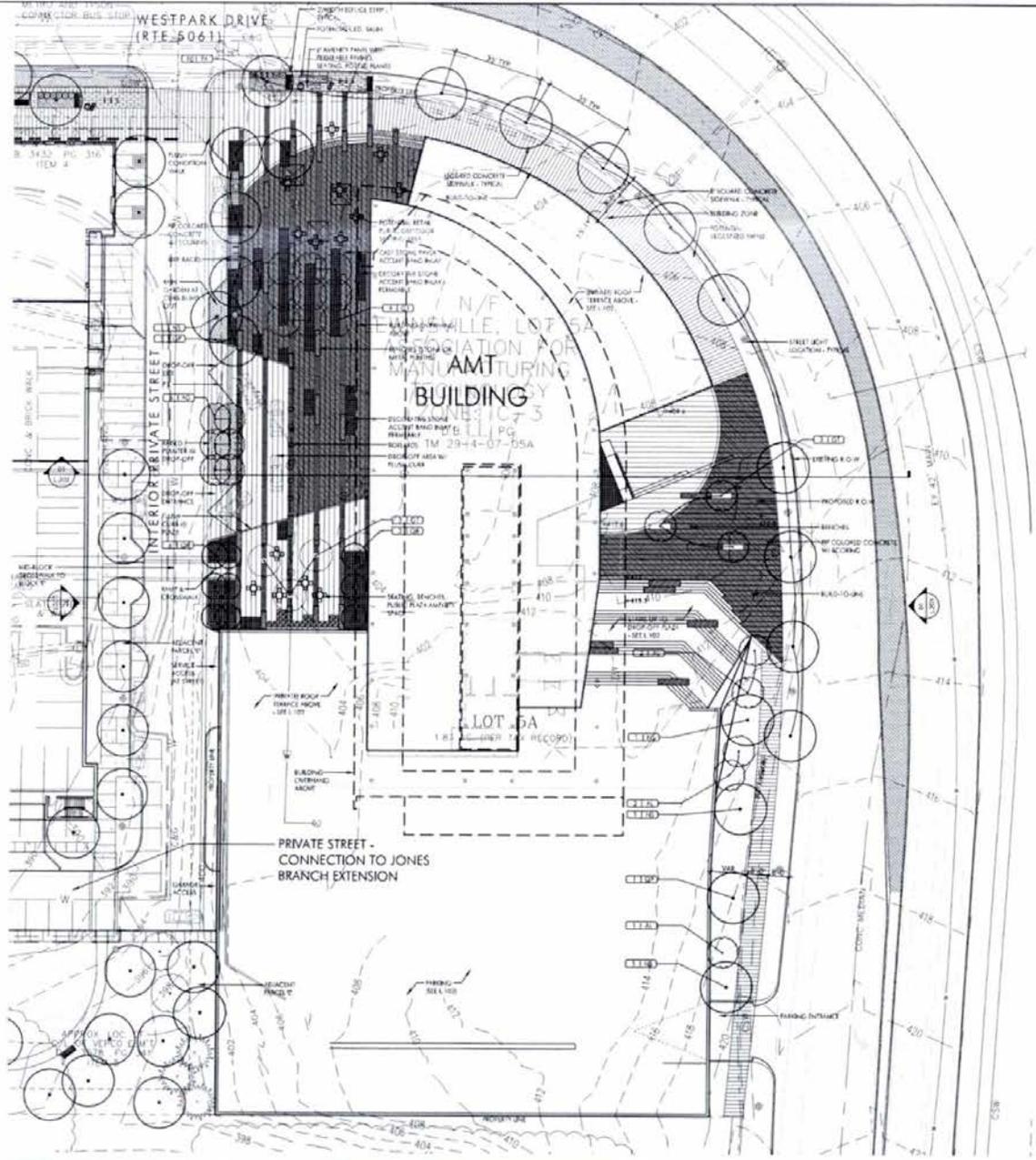
WALTER L. PHILLIPS
 ENGINEERS, ARCHITECTS & PLANNERS
 207 PARK AVENUE
 FALLS CHURCH, VIRGINIA 22046
 (703) 251-3101
 www.walterphillips.com

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 K&G PARTNERSHIP
 100 N. 10th Street, Suite 100
 Alexandria, VA 22314
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 www.kgp.com

AMT
 AMT CONSULTANTS
 1901 West Park Drive
 Manassas, VA 20108
 (703) 766-2200
 www.amtva.com

ILLUSTRATIVE PLAN
 THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
 7901 WESTPARK DRIVE
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	
05/25/12	PER COUNTY COMMENTS
03/23/12	PER COUNTY COMMENTS
06/26/12	PER COUNTY COMMENTS
10/05/12	PER COUNTY COMMENTS
DATE	DESCRIPTION
SCALE	1" = 30'-0"
JOB No.	
DATE	February 21, 2012
FILE No.	
SHEET	L.003



- LANDSCAPE NOTES
1. THE PROPOSED LANDSCAPE WILL BE USED TO MEET THE MINIMUM TREE COVER REQUIREMENTS. LOCATIONS, SPECIES AND QUANTITIES MAY BE ADJUSTED WITH FINAL DESIGN.
 2. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED AT SITE PLAN.
 3. ALL STREET LEVEL TREES ARE PLANTED ON GRADE UNLESS OTHERWISE NOTED.
 4. REFER TO SHEET L301 FOR PLANT SPECIES SCHEDULE.
 5. REFER TO SHEETS L301/2 FOR REPRESENTATIVE FURNISHINGS AND DESIGN DETAILS.

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.



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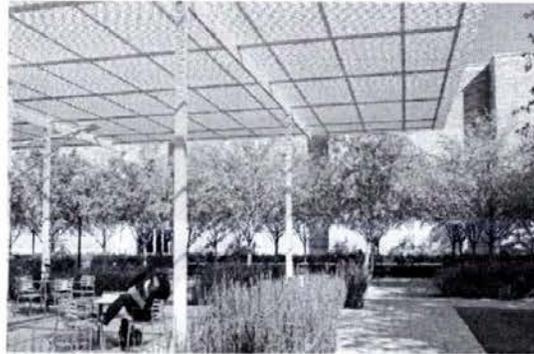
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LANDSCAPE PLAN - STREET LEVEL
 THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
 ARBOR ROW - BLOCK "E"
 7901 WESTPARK DRIVE
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

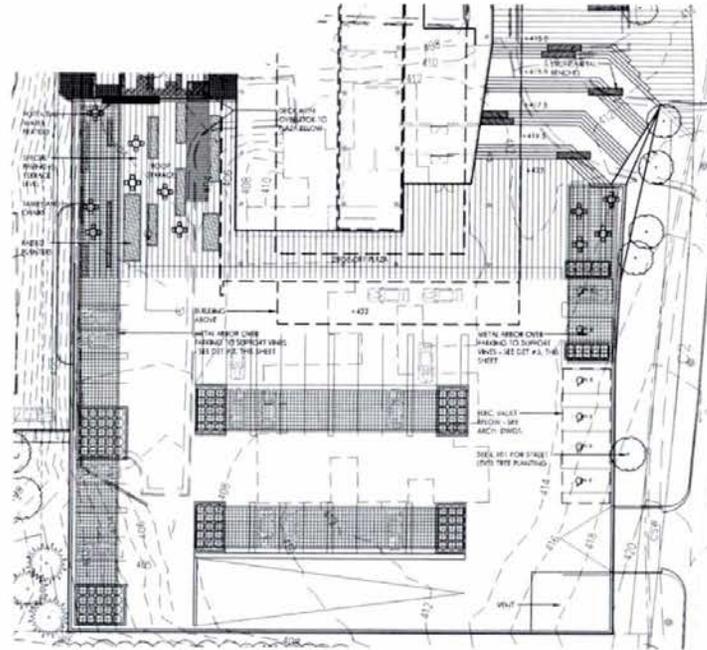
PLAN STATUS	DESCRIPTION
01/20/12	PER COUNTY COMMENTS
02/20/12	PER COUNTY COMMENTS
03/20/12	PER COUNTY COMMENTS
04/20/12	PER COUNTY COMMENTS

DATE	DESCRIPTION
02/24/2012	ISSUED

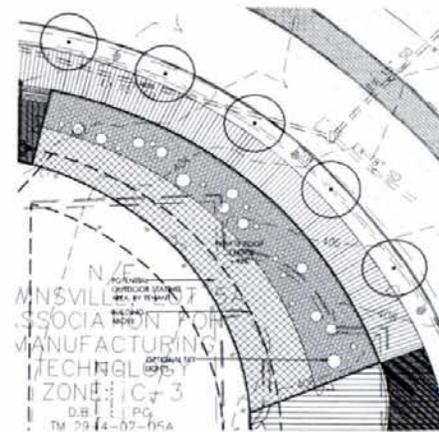
SHEET L.101



03 CONCEPTUAL METAL ARBOR OVER PARKING



01 LANDSCAPE PLAN: DROP-OFF PLAZA AND ROOF TERRACE
SCALE: 1" = 20'-0"



02 LANDSCAPE PLAN: PRIVATE ROOF TERRACE
SCALE: 1" = 20'-0"

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- LANDSCAPE NOTES:
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 2. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED AT SITE PLAN.
 3. REFER TO SHEET L-301 FOR PLANT SPECIES SCHEDULE.

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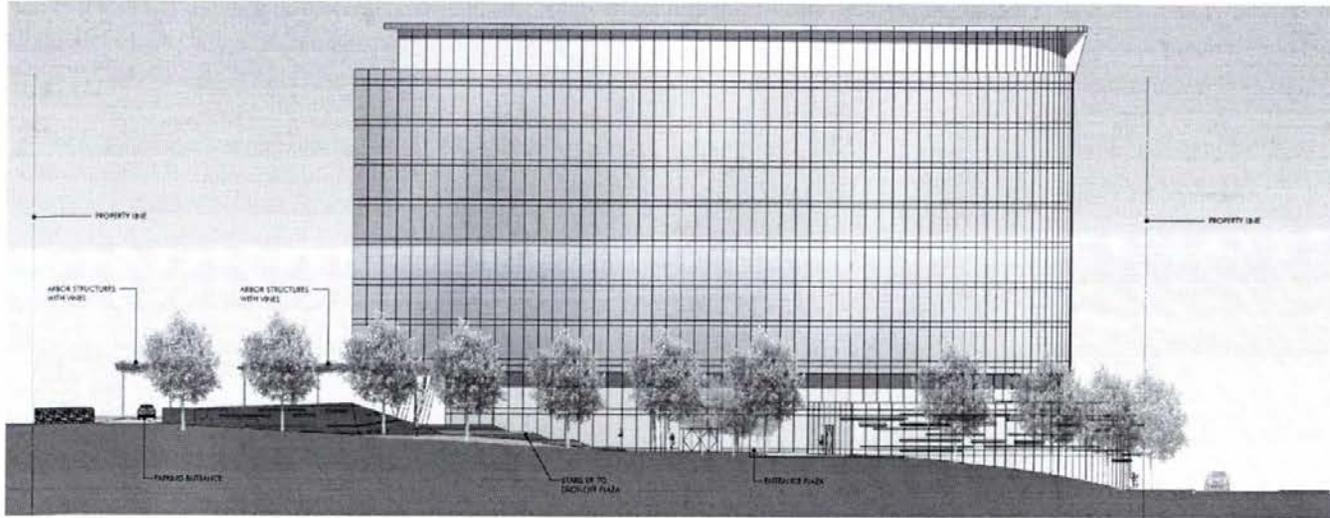
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THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
7901 WESTPARK DRIVE
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

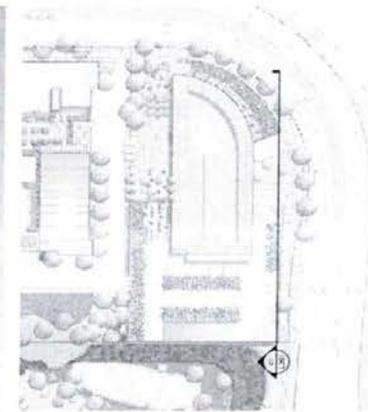
PLAN STATUS	PER COUNTY COMMENTS
09/25/12	PER COUNTY COMMENTS
01/23/12	PER COUNTY COMMENTS
08/20/12	PER COUNTY COMMENTS
10/25/12	PER COUNTY COMMENTS

SCALE	DESCRIPTION
SCALE: 1" = 20'-0"	
JOB No.	
DATE: February 24, 2012	
FILE No.	

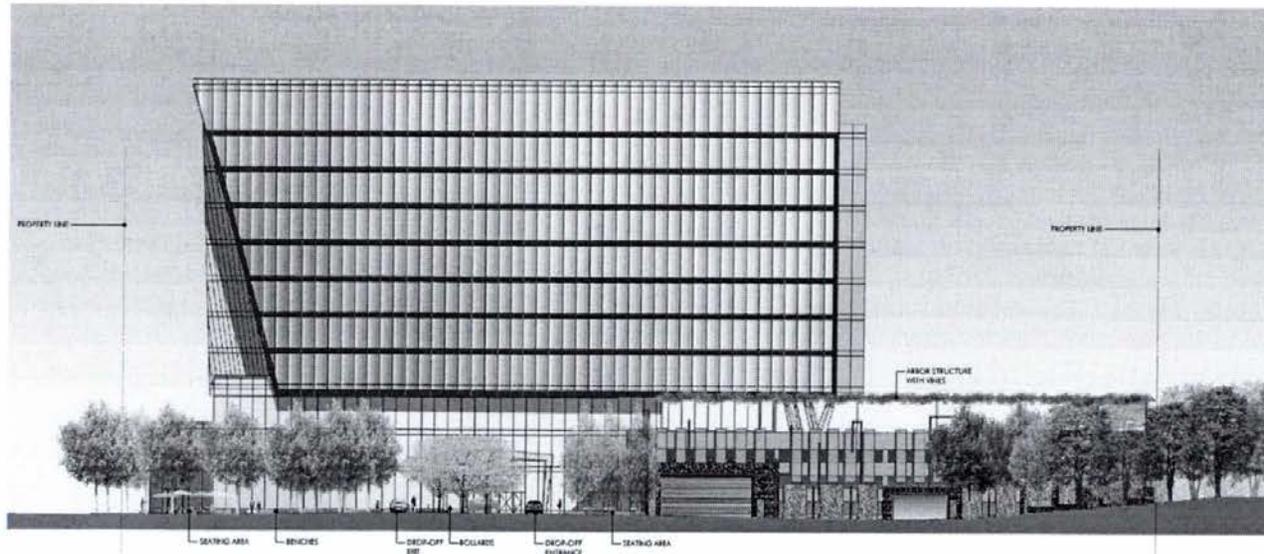
SHEET **L-102**



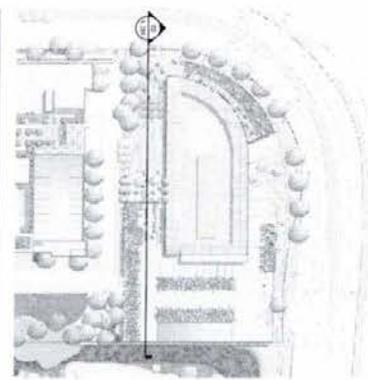
01 EAST - ELEVATION
SCALE: 1" = 8'-0"



REFERENCE PLAN



02 WEST - ELEVATION
SCALE: 1" = 8'-0"



REFERENCE PLAN

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

SITE SECTIONS PRESENTED ON THIS SHEET ARE PROVIDED TO AID IN THE UNDERSTANDING OF GRADE CHANGE ACROSS THE SUBJECT PROPERTY AND THE RELATIONSHIP OF PROPOSED BUILDINGS AND OTHER USES. BUILDING DESIGN AND THE FINAL GRADING ARE SUBJECT TO CHANGE WITH FINAL ENGINEERING AND ARCHITECTURAL DESIGN.



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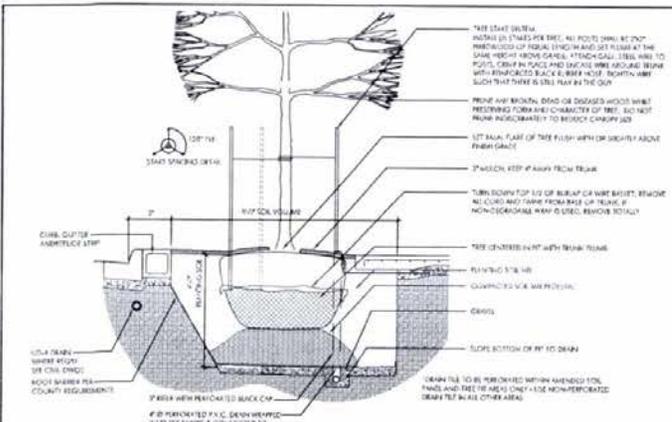
AMT
ARCHITECTURAL MODELING TECHNOLOGIES
1901 BROADWAY, SUITE 200
MILWAUKEE, WISCONSIN 53233
TEL: 414.224.2200
WWW.AMT-ARCHITECT.COM

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1901 BROADWAY, SUITE 200
MILWAUKEE, WISCONSIN 53233
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WWW.AMT-ARCHITECT.COM

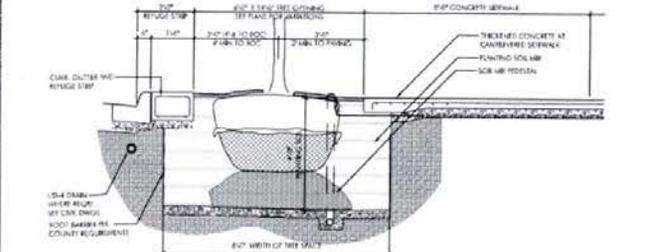
SITE & STREET SECTIONS
THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY
ARBOR ROW - BLOCK "F"
7901 WESTPARK DRIVE
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
05/25/12	PER COUNTY COMMENTS
07/20/12	PER COUNTY COMMENTS
08/28/12	PER COUNTY COMMENTS
09/05/12	PER COUNTY COMMENTS
01/24/13	AS NOTED

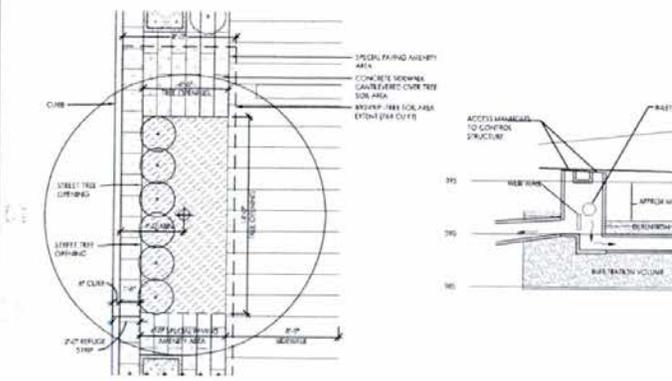
FILE NO. L201



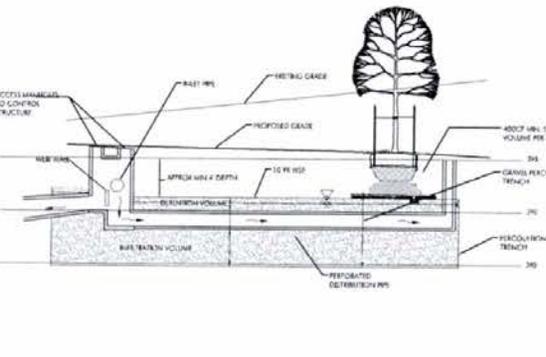
01 TREE PLANTING DETAIL - TYPICAL STREET TREE
SCALE: 1/2"=1'-0"



02 TREE PLANTING DETAIL - TREE SOIL SPACE
SCALE: 1/2"=1'-0"



03 PLAN VIEW - CANTILEVERED WALK ON WESTPARK
SCALE: 1/8"=1'-0"



06 SECTION : GRAVEL TRENCH DRAIN
SCALE: 3/16"=1'-0"

ARBOR ROW OVERALL: CDF - CANOPY COVERAGE

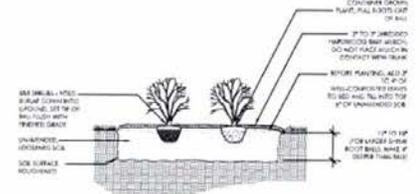
TREE 10' OR GREATER CANOPY HEIGHTS	82.79%	4'
TREE 10' OR GREATER TREE CANOPY HEIGHTS	84.67%	4'

ARBOR ROW BLOCK Y & A' - CONTRIBUTION TO CANOPY COVERAGE

BLOCK 10' OR GREATER CANOPY HEIGHTS	84.67%	4'
BLOCK 10' OR GREATER TREE CANOPY HEIGHTS	84.67%	4'

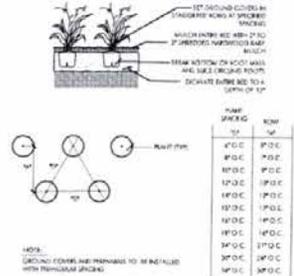
ARBOR ROW BLOCK B,C,D,E' - CONTRIBUTION TO CANOPY COVERAGE

BLOCK 10' OR GREATER TREE CANOPY HEIGHTS TO BE PROVIDED	29.10%	4'
---	--------	----



04 SHRUB PLANTING DETAIL
SCALE: 1/2"=1'-0"

- LANDSCAPE NOTES
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05 GC / PERENNIAL PL DETAIL
SCALE: 1/2"=1'-0"

ARBOR ROW BLOCK Y' (AMT SITE) - PLANTING LIST & CANOPY COVERAGE

KEY	BOTANICAL NAME	COMMON NAME	QTY	STOCK	STOCK	10' OR GREATER	TREE CANOPY	REMARKS
				TYPE	TYPE	CANOPY FT'	SUB-TOTAL FT'	
08	Quercus rubra	Common English Oak	4	3'	888	75	275	single wider 1/2" sawtooth, symmetrical
09	Aster multiflorus	Manyflower Aster	3	2'	888	100	100	medium - 3' dense, horizontal, 1/1" flowering
10	Asplenium platyneuron	Rock Spleenwort	3	2'	888	122	122	medium - 3' dense, horizontal, 1/1" flowering
11	Asplenium platyneuron	Rock Spleenwort	15	3'	888	125	2,250	single wider 1/2" sawtooth, symmetrical
12	Asplenium platyneuron	Rock Spleenwort	4	3'	888	125	500	single wider 1/2" sawtooth, symmetrical
13	Asplenium platyneuron	Rock Spleenwort	10	2'	888	200	2,000	single wider 1/2" sawtooth, symmetrical
14	Asplenium platyneuron	Rock Spleenwort	8	2'	888	200	1,500	single wider 1/2" sawtooth, symmetrical

TOTAL 10' OR GREATER TREE CANOPY PROVIDED BY PLANTING: **KATE**

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LANDSCAPE COMPUTATIONS - ARBOR ROW - BLOCK Y'

Item	Description	Value	Reference
13-001	INTERIOR PARKING LOT LANDSCAPE CALCULATIONS		
	Total Parking Area (square)	23,500	SEE L 101 FOR AREA OF 1:18 PROPORTION
	Min. Percent Required Coverage	5.00%	
	Provided: Projected Covered Area of Trees	5,900	
13-302	PERIPHERAL PARKING LOT LANDSCAPE CALCULATIONS		
	On-street parking structure adjacent to public ROW (1:1)	12,500	SEE L 101 FOR AREA OF 1:18 PROPORTION
	Area (1:18 per lot) (20' lot required)	0	
	Trees provided in landscape (1:18) per garden or structure	0	
13-301	TRANSIT STATION, SCREENING AND BARRIERS		
	Project: zoning District: (1:1)	10%	
	Adjacent zoning District: (1:1) C.F. (1:1) (1:1)	10%	
	Transitional Screening and Barriers are Not Required	0	
13-401	TREE COVER CALCULATIONS		
Table 13-12	10-year Tree Canopy Coverage Worksheet		
Step 1	Tree Preservation Target and Statement		
A	Place the Tree Preservation Target calculations and statement		
A.1	Tree Preservation Target calculations and statement		
B	Tree Canopy Requirement		
B.1	Subtotal area reserved to park, street, and	80,001	§ 12-0510 1A
B.2	Subtotal area of easements	4,476	§ 12-0511 3G(1)
B.3	Adjusted Gross Site Area (1:1 - B2)	75,525	
B.4	Identify areas subject to other	0	
B.5	Percentage of 10-year Tree Canopy Required	10%	§ 12-0510 1 and Table 12.4
B.6	Area of 10-year Tree Canopy Requirements Required	7,553	
B.7	Modification of 10-year tree canopy requirements required	0	No Yes or No
B.8	Area of 10-year tree canopy requirements required	7,553	
B.9	Area of 10-year tree canopy requirements required	0	No Yes or No
C	Tree Preservation		
C.1	Tree Preservation Target Area	0-12,000	3A(1)
C.2	Total canopy area existing on-site of § 12-0510	0	§ 12-0510 3B
C.3	Total canopy area provided by canopy or relative forest of	0	§ 12-0510 3B(1)
C.4	Canopy area provided by canopy or relative forest of	0	§ 12-0510 3B(1)
C.5	Total of C.1, C.2, C.3, C.4	0	§ 12-0510 3B(1)
C.6	Area of C.1 is less than	0	§ 12-0510 3B(1)
C.7	Area of C.1 is less than	0	§ 12-0510 3B(1)
C.8	Area of C.1 is less than	0	§ 12-0510 3B(1)
C.9	Area of C.1 is less than	0	§ 12-0510 3B(1)
C.10	Total of C.1, C.2, C.3, C.4	0	§ 12-0510 3B(1)
D	Tree Planting		
D.1	Area of canopy to be met through tree planting (B.7-C.10)	7,553	
D.2	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.3	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.4	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.5	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.6	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.7	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.8	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.9	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.10	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.11	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.12	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.13	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.14	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.15	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.16	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.17	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.18	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.19	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.20	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.21	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.22	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.23	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.24	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.25	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.26	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.27	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.28	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
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D.30	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
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D.32	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.33	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.34	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.35	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.36	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.37	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.38	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.39	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.40	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.41	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.42	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.43	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.44	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.45	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.46	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
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D.48	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.49	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
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D.51	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
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D.57	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.58	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.59	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.60	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.61	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.62	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.63	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.64	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.65	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.66	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.67	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.68	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.69	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.70	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.71	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.72	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.73	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.74	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.75	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.76	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.77	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.78	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.79	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.80	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.81	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.82	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.83	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.84	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
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D.86	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.87	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.88	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.89	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.90	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.91	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.92	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.93	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.94	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.95	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.96	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.97	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.98	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.99	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)
D.100	Area of canopy provided by canopy or relative forest of	0	§ 12-0510 3B(1)

WALTER L. PHILLIPS
Professional Engineer
Professional Land Surveyor
Professional Architect
Professional Planner
Professional Engineer
Professional Surveyor
Professional Designer
Professional Draftsman
Professional Estimator
Professional Accountant
Professional Auditor
Professional Tax Preparer
Professional Real Estate Broker
Professional Insurance Agent
Professional Financial Planner
Professional Investment Advisor
Professional Business Consultant
Professional Management Consultant
Professional Human Resources Consultant
Professional Marketing Consultant
Professional Public Relations Consultant
Professional Communications Consultant
Professional Legal Consultant
Professional Intellectual Property Consultant
Professional Environmental Consultant
Professional Energy Consultant
Professional Construction Consultant
Professional Transportation Consultant
Professional Information Technology Consultant
Professional Telecommunications Consultant
Professional Media Consultant
Professional Entertainment Consultant
Professional Sports Consultant
Professional Hospitality Consultant
Professional Food and Beverage Consultant
Professional Fashion Consultant
Professional Beauty Consultant
Professional Health and Wellness Consultant
Professional Fitness Consultant
Professional Nutrition Consultant
Professional Mental Health Consultant
Professional Substance Abuse Consultant
Professional Addictive Disorder Consultant
Professional Child Welfare Consultant
Professional Juvenile Justice Consultant
Professional Probation and Parole Consultant
Professional Corrections Consultant
Professional Law Enforcement Consultant
Professional Security Consultant
Professional Risk Management Consultant
Professional Crisis Management Consultant
Professional Disaster Preparedness Consultant
Professional Emergency Management Consultant
Professional Business Continuity Consultant
Professional Insurance Underwriting Consultant
Professional Insurance Claims Consultant
Professional Insurance Brokerage Consultant
Professional Insurance Agency Consultant
Professional Insurance Sales Consultant
Professional Insurance Marketing Consultant
Professional Insurance Distribution Consultant
Professional Insurance Production Consultant
Professional Insurance Administration Consultant
Professional Insurance Support Consultant
Professional Insurance Training Consultant
Professional Insurance Education Consultant
Professional Insurance Research Consultant
Professional Insurance Development Consultant
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Professional Insurance Profitability Consultant
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Professional Insurance Public Policy Consultant
Professional Insurance Regulatory Compliance Consultant
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Professional Insurance Industry White Paper Consultant
Professional Insurance Industry Report Consultant
Professional Insurance Industry Study Consultant
Professional Insurance Industry Analysis Consultant
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Professional Insurance Industry Trend Consultant
Professional Insurance Industry Challenge Consultant
Professional Insurance Industry Opportunity Consultant
Professional Insurance Industry Innovation Consultant
Professional Insurance Industry Disruption Consultant
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Professional Insurance Industry Industry Industry Report Consultant
Professional Insurance Industry Industry Industry Study Consultant
Professional Insurance Industry Industry Industry Analysis Consultant
Professional Insurance Industry Industry Industry Forecast Consultant
Professional Insurance Industry Industry Industry Outlook Consultant
Professional Insurance Industry Industry Industry Trend Consultant
Professional Insurance Industry Industry Industry Challenge Consultant
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Professional Insurance Industry Industry

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Department of Planning & Zoning

OCT 05 2012

Zoning Evaluation Division

ARBOR ROW - BLOCK E

PROVIDENCE DISTRICT FAIRFAX COUNTY, VIRGINIA

FINAL DEVELOPMENT PLAN

FDP 2011-PR-023-03

(CONCURRENT RZ/CDP 2011-PR-023)



CIVIL SHEET INDEX

- C1.0 COVER SHEET
- C2.0 GENERAL NOTES AND CORRESPONDANCE
- C2.1 TABULATIONS AND WAIVERS
- C3.0 CONTEXT PLAN AND VICINITY MAP
- C4.0 OVERALL DEVELOPMENT PLAN
- C5.0 EXISTING CONDITIONS PLAN
- C5.0 FINAL DEVELOPMENT PLAN PHASE I CONDITIONS
- C6.1 FINAL DEVELOPMENT PLAN PHASE II CONDITIONS
- C7.0 WESTPARK DRIVE ROADWAY STRIPING AND CROSS SECTION
- C7.1 JONES BRANCH DRIVE EXTRADISCH ROADWAY STRIPING AND CROSS SECTION
- C7.2 FIRE VEHICULAR ACCESS EXHIBIT
- C8.0 ADEQUATE OUTFALL AND SWM CHECKLIST
- C8.1 ADEQUATE OUTFALL AND SWM CHECKLIST
- C8.1 SWM & BMP NARRATIVE
- C9.0 CONCEPTUAL SWM PLAN
- C9.1 BLOCK E SWM COMPUTATIONS (1 OF 2)
- C9.2 BLOCK E SWM COMPUTATIONS (2 OF 2)
- C10.0 LOW IMPACT DEVELOPMENT CONCEPT PLAN
- C11.0 EXISTING VEGETATION MAP

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- A.0.2 SECTIONS A.A, B.B, C.C
- A.0.3 PROPOSED DEVELOPMENT WITH PROPOSED NEIGHBORING PROPERTIES SHADOW STUDY
- A.0.4 ELEVATIONS
- A.0.5 ELEVATIONS - BASE
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- A.0.8 VIEWS - WESTPARK DRIVE EAST
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- L0.02 REFERENCE LANDSCAPE PLAN
- L0.03 ILLUSTRATIVE PLAN
- L1.01 LANDSCAPE PLAN - STREET LEVEL
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- L1.03 LANDSCAPE PLAN - ROOF TERRACES
- L2.01 SITE & STREET SECTIONS
- L2.02 STREET SECTIONS
- L3.01 PLANTING DETAILS AND SCHEDULE
- L3.02 PLANTING DETAILS AND SCHEDULE
- L6.01 STREETSCAPE ELEMENTS
- L6.02 SUSTAINABILITY STRATEGIES
- 46 TOTAL SHEETS

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OCTOBER 5, 2012
AUGUST 09, 2012
JULY 23, 2012
MAY 25, 2012
FEBRUARY 24, 2012
SHEET C1.0

WAIVER / MODIFICATION REQUESTS (AS APPROVED WITH RZCDP 2011-PR-023) FOR INFORMATION:

- ZONING ORDINANCE ARTICLE 2 - GENERAL REGULATIONS**
- WAIVER/MODIFICATION OF SECTION 2-506-2 TO ALLOW FOR A PARAPET WALL CORNER OR SIMILAR PROJECTION TO EXCEED THE HEIGHT LIMIT ESTABLISHED BY MORE THAN THREE (3) FEET
- ZONING ORDINANCE ARTICLE 6 - PLANNED DEVELOPMENT DISTRICT REGULATIONS**
- WAIVER OF ZONING ORDINANCE SECTION 6-505 F REQUIRING THE DESIGN OF SPECIFIC OUTDOOR DINING AREAS ON THE COP/POF. BATHER, OUTDOOR DINING MAY BE PROVIDED IN ANY AREA WHERE THE USE INCLUDES DINING ACTIVITY AND WILL BE INDICATED AT THE TIME OF FINAL SITE PLAN.
- ZONING ORDINANCE ARTICLE 10 - ACCESSORY USES, ACCESSORY SERVICE USES, AND HOME OCCUPATIONS**
- AS ALLOWED WITHIN ZONING ORDINANCE SECTION 10-104.3 F AND C APPLICANT REQUESTS A MODIFICATION OF THE MAXIMUM FENCE HEIGHT FROM SEVEN FEET TO FOURTEEN FEET AROUND ACCESSORY USES/STRUCTURES LOCATED WITHIN THE REAR YARD OF THOSE AREAS OF FENCING ASSOCIATED WITH THE PROPOSED SPORTS COURTS AND URBAN PLAZA AS INDICATED ON THE COP.
- ZONING ORDINANCE ARTICLE 11 - PARKING AND LOADING**
- MODIFICATION OF ZONING ORDINANCE SECTION 11-102(1) AND SECTION 6-509(1) TO ALLOW FOR TANDEN SPACES AND VALET SPACES CONTROLLED BY BUILDING MANAGEMENT FOR RESIDENTIAL AND OFFICE USES. SUCH STACKED SPACES IN ACCORDANCE WITH SECTION 11-101(1) AND 6-509(1) MAY COUNT TOWARD REQUIRED PARKING SPECIFIED IN THE ZONING ORDINANCE, AND SHALL BE PROVIDED IN ACCORDANCE WITH THE PARKING PLAN SUBMITTED WITH THIS APPLICATION.
 - MODIFICATION OF ZONING ORDINANCE SECTION 11-201 AND SECTION 11-203 FOR THE REQUIRED NUMBER OF LOADING SPACES WITHIN MULTI-FAMILY, OFFICE AND RETAIL/SERVICES USES IS REQUESTED IN FAVOR OF THOSE WHICH ARE SHOWN ON THE COP.
 - MODIFICATION OF SECTION 11-202(A) REQUIRING MINIMUM DISTANCE OF FORTY FEET (40') OF A LOADING SPACE IN PROXIMITY TO TRAVEL WAYS OR STREETS, AS PERTAINS TO BLOCK A, TO THAT AS DEMONSTRATED ON THE COP.
- ZONING ORDINANCE ARTICLE 13 - LANDSCAPING**
- MODIFICATION/WAIVER OF INTERIOR PARKING LOT LANDSCAPE REQUIREMENTS SECTION 13-202-B FOR ABOVE GRADE PARKING STRUCTURES AND INTERM SURFACE LOTS, AS ALLOWED PER SECTION 13-202, PARA 6, TO THAT SHOWN ON THE COP AND DESCRIBED BELOW.
 - a. FOR INTERM SURFACE PARKING LOTS, INTERIOR LANDSCAPING WILL BE DEMONSTRATED ON SUBSEQUENT POF APPLICATIONS AND WILL UTILIZE EXISTING VEGETATION WITHIN PARKING LOTS, TO THE EXTENT POSSIBLE.
 - b. FOR PROPOSED ABOVE GRADE PARKING STRUCTURES, INTERIOR LANDSCAPING MAY INCLUDE INNOVATIVE PLANTING DESIGN AND TECHNIQUES, INCLUDING BUT NOT LIMITED TO, OVERHEAD VEGETATIVE ARRAYS.
 - c. WITHIN BLOCK 'C', WAIVER OF THE INTERIOR PARKING LOT LANDSCAPE REQUIREMENTS FOR THE EXPOSED PARTIAL UPPER LEVEL, AS THE ELEVATION OF THE DECK IS APPROXIMATELY TEN (10) FEET BELOW THE SURROUNDING COURTYARD AND IS SCREENED FROM VIEW OF ADJACENT PROPERTIES BY ARCHITECTURAL ELEMENTS.
 - MODIFICATION OF PERIPHERAL LANDSCAPE REQUIREMENTS SECTION 13-203-5, FOR ABOVE GRADE PARKING STRUCTURES AND INTERM SURFACE LOTS AS ALLOWED BY SECTION 13-203, PARA 3, TO THAT SHOWN ON THE COP AND DESCRIBED BELOW.
 - a. FOR INTERM SURFACE PARKING LOTS, PERIPHERAL LANDSCAPING WILL BE DEMONSTRATED ON SUBSEQUENT POF APPLICATIONS AND WILL UTILIZE EXISTING VEGETATION WITHIN PARKING LOTS, TO THE EXTENT POSSIBLE.
 - b. FOR PROPOSED ABOVE GRADE PARKING STRUCTURES, PERIPHERAL LANDSCAPING WILL BE PROVIDED USING TREES WITHIN URBAN STREETSCAPES (PER TYSONS URBAN DESIGN GUIDELINES) WHERE GARAGES ARE ADJACENT TO STREET FRONTAGE AND BY EXISTING TOPOGRAPHIC FEATURES OR OTHER URBAN DESIGN ELEMENTS WHERE GARAGES ARE ADJACENT TO SIDE STREET FRONTAGE.
- ZONING ORDINANCE ARTICLE 16 - DEVELOPMENT PLANS**
- WAIVER OF ZONING ORDINANCE SECTION 16-403 REQUIRING THE SUBMISSION OF A FINAL DEVELOPMENT PLAN APPLICATION ASSOCIATED WITH THE PUBLIC ROADWAY AND INFRASTRUCTURE PHASING EXHIBIT SHOWN WITHIN THE COP.
- ZONING ORDINANCE ARTICLE 17 - SITE PLAN**
- WAIVER OF SECTION 17-201-(1)(B) REQUIRING ADDITIONAL INTER-PARCEL ACCESS TO ADJOINING PARCELS (OTHER THAN THOSE SHOWN ON THE COP).
 - WAIVER OF SECTION 17-201-(1) REQUIRING STREETSCAPE IMPROVEMENTS WITHIN THE R.P.A ALONG WESTPARK DRIVE NEAR THE WESTERN PORTION OF BLOCK A, AND IN RETURN, PROVISION OF CONCRETE SIDEWALK AS SHOWN ON THE COP.
 - MODIFICATION OF SECTION 17-201-(2) AND (4) TO PROVIDE INTERIOR ROAD AND TRAIL CONDITIONS ALONG THE WESTPARK DRIVE FRONTAGE OF BLOCK 'F' (AS SHOWN ON THE COP), AS A RESULT OF THE CONSTRUCTION OF THE 11-485 EXPRESS LAKE IMPROVEMENTS AND IN ORDER TO TRANSITION TO THE ULTIMATE IMPROVEMENTS.

- WITH REGARD TO HANDOVER PARCEL (L.M. #23-2-(1131)-B-2)**
- WAIVER OF SECTIONS 17-201-(5)(A), 17-214 REQUIRING THE CONSTRUCTION OR INSTALLATION OF THE FOLLOWING, BUT NOT LIMITED TO: INTER-PARCEL ACCESS, ROADWAY FRONTAGE IMPROVEMENTS, UTILITY RELOCATION, DRIVEWAYS, STREET LIGHTS OR OTHER IMPROVEMENTS OTHER THAN THOSE IDENTIFIED ON EXHIBIT 'A' OF THE PROFFERS.

- PUBLIC FACILITIES MANUAL**
- WAIVER OF PFM SECTION 6-0303.B. TO ALLOW STORM WATER MANAGEMENT FACILITIES (SWM AND BMP) TO BE PROVIDED WITHIN UNDERGROUND SYSTEMS WITHIN THE RESIDENTIAL BLOCKS OF THE PROPOSED DEVELOPMENT.
 - MODIFICATION OF PFM SECTION 7-0802 TO ALLOW TANDEN/VALET PARKING SPACES, CONTROLLED BY BUILDING MANAGEMENT, AND THAT SUCH SPACES SHALL COUNT TOWARD REQUIRED PARKING.
 - MODIFICATION OF SECTION 7-0802.2 (PARKING GEOMETRIC STANDARDS) TO ALLOW FOR UP TO 1.5 FEET OF PROJECTION OF STRUCTURAL COLUMNS INTO THE REQUIRED PARKING STALL AREA. THE PARKING STALLS AFFECTED BY SUCH STRUCTURAL COLUMNS SHALL COUNT TOWARD THE NUMBER OF REQUIRED PARKING SPACES FOR UP TO 10% OF THE TOTAL SPACES PROVIDED.
 - MODIFICATION OF SECTION 12-0508 TREE PRESERVATION TARGET, AS ALLOWED BY DEVIATIONS DESCRIBED IN SECTION 12-0508.3A(1) THROUGH SECTION 12-0508.3A(3) AND AS DESCRIBED IN REQUEST LETTER ATTACHED ON SHEET C-2-3.
 - MODIFICATION OF SECTION 12-0511-4 FOR REQUIRED TEN PERCENT TREE CANOPY COVERAGE ON INDIVIDUAL LOTS/LAND BAYS, TO ALLOW FOR CANOPY TO BE CALCULATED ON THE OVERALL ARBOR ROW DEVELOPMENT AREA, AS DEMONSTRATED ON THE COP HEREIN.

SOILS MAP



SOILS CHART

FAIRFAX COUNTY SOILS DATA 2008

SOIL NUMBER	SOIL SERIES	PROBLEM CLASS	DRAINAGE	SE/PC FIELDS	EROSION POTENTIAL
308+	MEADOWLARK	B	MARGINAL	POOR	MODERATE
21C2	MANOR	C	GOOD	GOOD	HIGH
55B2	GLENELG	C	GOOD	GOOD	HIGH
55C2	GLENELG	C	GOOD	GOOD	HIGH

**TABLE 3
OVERALL ARBOR ROW RESIDENTIAL DENSITY TABULATION**

**TABLE 3
OVERALL ARBOR ROW RESIDENTIAL DENSITY TABULATION**

1,681,800 GFA AVAILABLE DEDUCTIBLE SITE AREA GFA PER COMPLY PLAN CLASS 2:

- 1,084,000 GFA (PROPOSED OFFICE BUILDING A, B, C, D)
- 46,000 GFA (PROPOSED HOTEL BLOCK A)
- 541,800 GFA (PROPOSED HOTEL BLOCK B)

1, 113,100 GFA AVAILABLE RESIDENTIAL GFA "NON-SITE"

- 113,100 GFA AVAILABLE FROM HANDOVER SITE (245,000 SQ FT 3.5:1 A.P.)
- 82,000 GFA "BASE" RESIDENTIAL AVAILABLE UNLESS BY 1:1.0:0.00 P.F.
- 174,000 GFA W/POF BONUS UTILIZED BY 1:0.00

1,681,800 GFA TOTAL RESIDENTIAL AVAILABLE

1,366,700 GFA REQUESTED FROM SUPPLEMENTARY CONTRIBUTION

1,681,800 GFA TOTAL RESIDENTIAL PROVIDED (BLOCKS A AND B)

**TABLE 1
Site Tabulation**

Proposed Site Area	Proposed Site Area	Proposed Site Area
Area of Public Utility Deduction	-7,135,788 Sq. Ft.	-7.31 AC
West Park Drive	-1,430,510 Sq. Ft.	0.315 AC
Total Area for Density Purpose:	-1,136,788 Sq. Ft. (1)	-1.314 AC (1)
Existing Zone:	C-3 (Office District)	
Proposed Zone:	PFC (Planned Future Center Urban District) BY RZCDP 2011-PR-023	
Proposed Gross Floor Area	314,800 Sq. Ft. (2)	
Floor Area Ratio	2.8 (3)	

(1) Includes square footage reserved for density credit from proposed dedication of Westpark Drive (as allowed per 2.0, Section 2-505.4). Total area of dedication to be determined with final site plan.
 (2) Density includes Supplemental GFA for Public Facilities. Contribution allocated from Handover Parcel (M #20-2-515042) and Bonus GFA for program of WOLF. Refer to Residential Density Tabulation Table 3.
 (3) FAR shown for Block B is demonstrated as a credit since calculation for purposes of this POF application. Refer to recurring application RZCDP 2011-PR-023 for FAR calculation of entire zoning application area including Blocks A-F.

**TABLE 2
Development Tabulation**

Building	ITEM 3 Allowable Building Height	Proposed Maximum Building Height (FSD)	Proposed Maximum Building Height (FSD)	Proposed Stories (F)	UM (S)	Proposed GFA by Use (K)	Proposed Maximum Building GFA (K)	Multi-Family Dwelling Units (SP)	Required Parking (SP) (1:12 ratio per 1000 GFA) (S)	Total Required Parking (S)	Parking Provided (S)	Proposed Parking Ratio Per Use	Leasing Spaces Required	Leasing Spaces Provided	
A	175'-0"	300'	NA	20 & 21'	Residential	588,800	518,800	435-480	1.1	1.1	475,828	719	1.4	1.5 (S)	
Total						7,200	518,800	435-480	8	8	475,828	722	3	2	

(1) Individual building heights and number of floor/stories shown are conceptual and may be changed provided the proposed maximum building height listed above is not exceeded. (Refer to Architectural Site Sections for Average Grade Elevations)
 (2) Building heights include penthouses.
 (3) Retail and/or Service use may include a variety of commercial type uses including but not limited to eating establishments and fast food restaurants, refer to note R22 sheet C2.3. Areas designated for retail use may also be converted to up to ten (10) Low Work' units as determined with final site plan, and as described in the proffer.
 (4) The square footage for individual uses and building shown is conceptual. The Applicant reserves the right to transfer square footage between and within uses (residential or commercial) and buildings provided the allowable total FAR is not exceeded.
 (5) Number of dwelling unit/bedroom types may be changed and will be determined at the time of final site plan.
 (6) Parking reserved and provided is estimated based on POF documents. Number of required parking spaces may be changed based on the final dwelling unit count, final bedroom mix, final specific building uses, and final GFA, which is to be determined at the time of final site plan. The Applicant reserves the right to provide more or less parking at the time of final site plan provided the allowable parking ratio set forth in Section 6-508 are not exceeded at the build out of the overall development.
 (7) Per Section 6-508 B (2), the base 1,000 square feet of ground floor retail has been subtracted prior to retail parking calculation. Retail parking based on 4.0 spaces per 1,000 SF (after the first 3,000 SF).
 (8) The required number of WOL/ADUs will be determined at final site plan based on the total number of "base" residential units constructed.
 (9) Proposed minimum GFA shall be fifty percent (50%) of proposed maximum GFA.

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Cityline PARTNERS
 A subsidiary of
 Cityline Urban Center Planner

ARBOR ROW - BLOCK 'E'
 FINAL DEVELOPMENT PLAN 2011-PR-023-03
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS

3/25/12	FOR CITYLINE COMMENTS
3/27/12	FOR CITYLINE COMMENTS
3/29/12	FOR CITYLINE COMMENTS
4/16/12	FOR CITYLINE COMMENTS

SCALE 1"=50'-0"

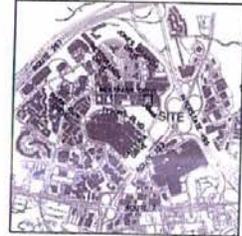
DATE February 24, 2012

FILE NO. 7402-12-001

SHEET C2.1



VICINITY MAP
SCALE: 1" = 2000' - 0"



LEGEND:

EXISTING/PROPOSED PUBLIC ROADWAY

NOTE:
ARBOR ROW BLOCKS A-D-F ARE SHOWN FOR INFORMATION ONLY AS ASSOCIATED WITH OVERALL ARBOR ROW REZONING APPLICATION #RZ/COP 2011-PW-023.



CONTEXT PLAN AND VICINITY MAP
ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN 2011-PW-023-D
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
3/29/12	FOR COUNTY COMMISSION
3/23/12	FOR COUNTY COMMISSION
08/29/11	FOR COUNTY COMMISSION
05/20/11	FOR COUNTY COMMISSION

DATE: February 24, 2012
JOB No.
FILE No. 7462-12-001
SHEET C3.0

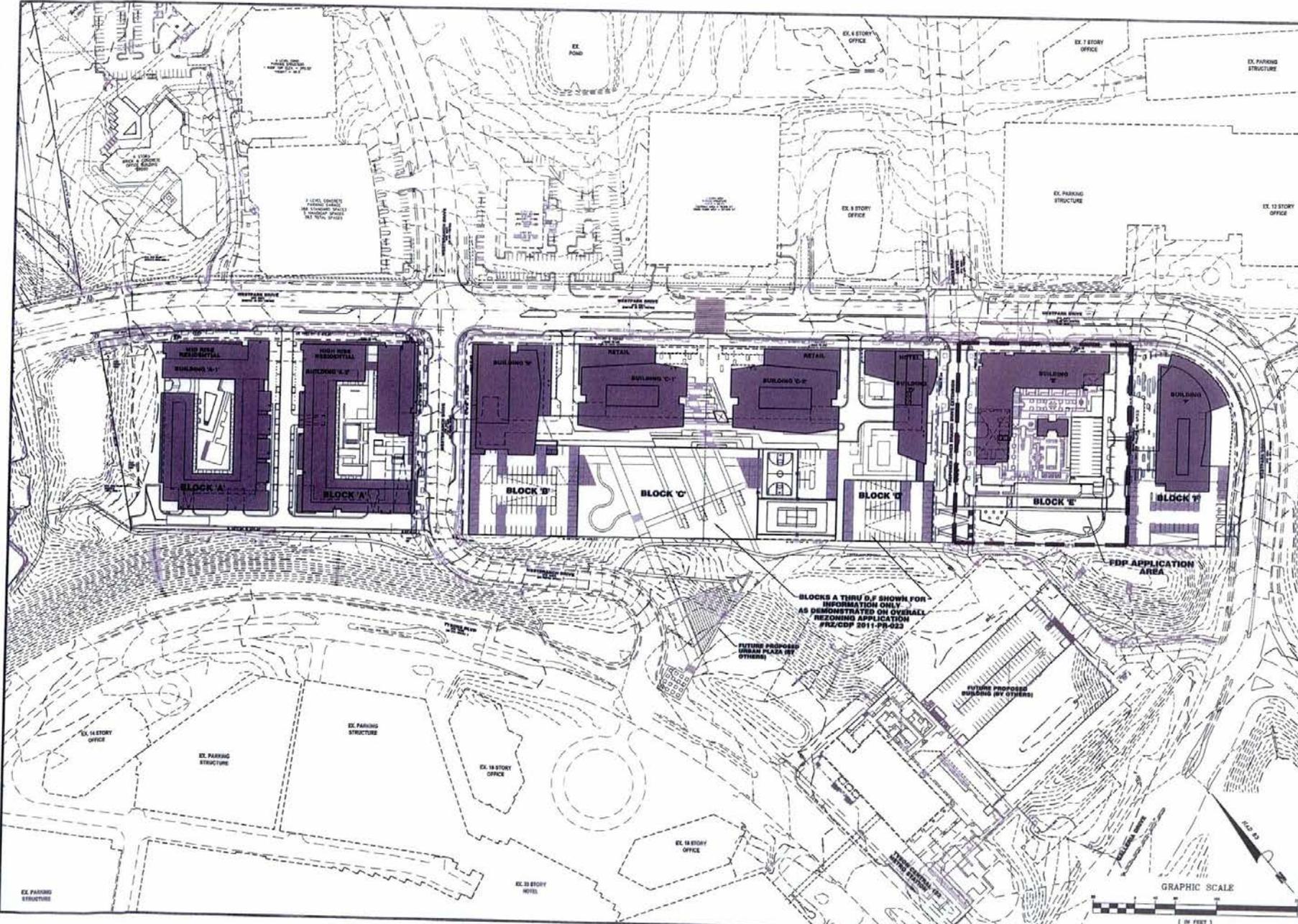
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1000 North 17th Street, Suite 200
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The Harvester Company
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 Norfolk, VA 23502
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 Fax: (757) 586-2200

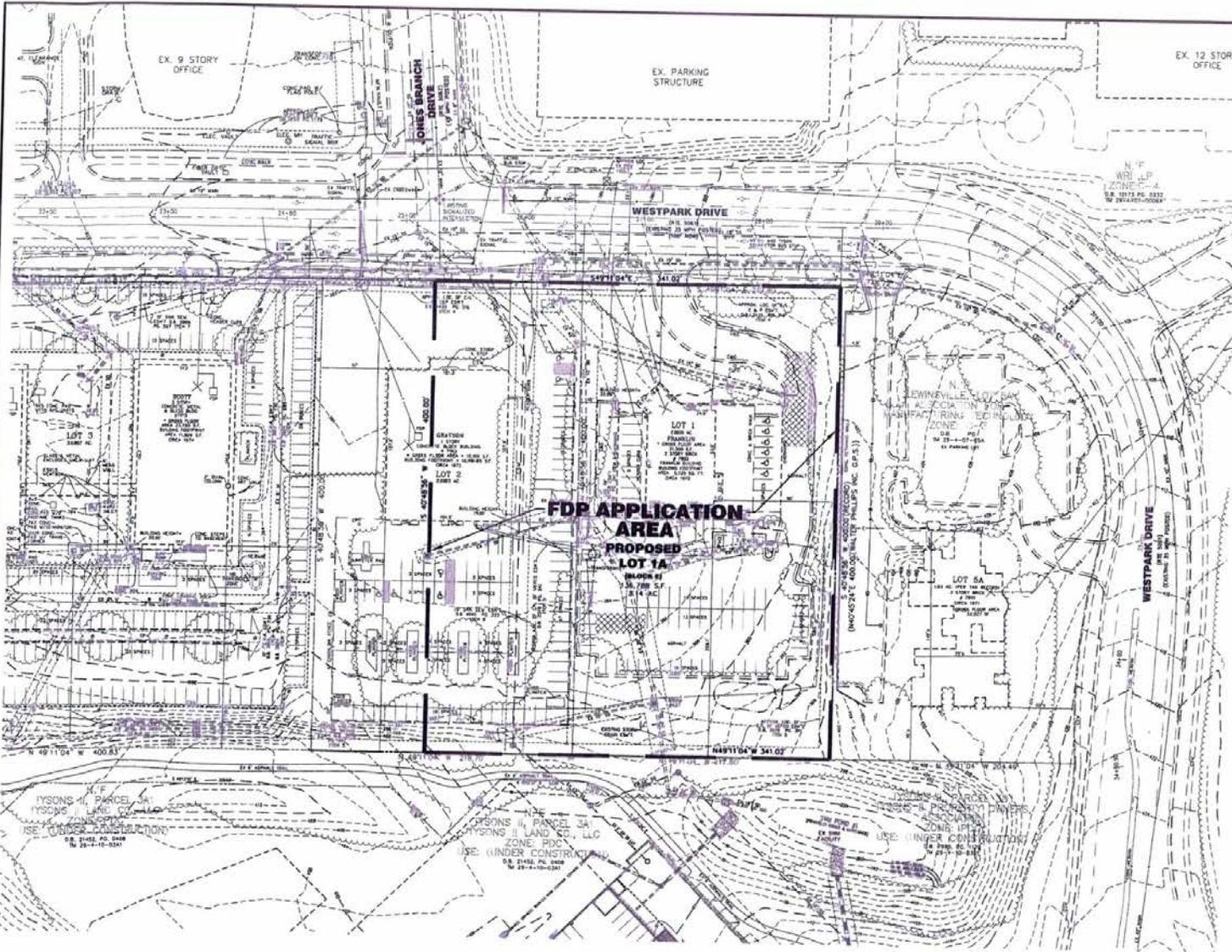
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 Norfolk, VA 23510

OVERALL DEVELOPMENT PLAN
ARBOR ROW - BLOCK 'E'
 FINAL DEVELOPMENT PLAN 2011-PR-053-G
 PROVIDENCE DISTRICT - FARMACK COUNTY, VIRGINIA

PLAN STATUS	DATE	BY	DESCRIPTION
3/28/11	3/28/11	PR	PR City Council
7/23/12	7/23/12	PR	PR City Council
08/29/12	08/29/12	PR	PR City Council
11/20/12	11/20/12	PR	PR City Council

DATE: February 24, 2017
 FILE No. 7403 (2-00)

SHEET **C4.0**

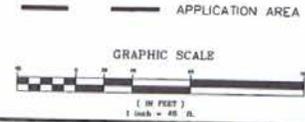


YNSONS II PARCEL 2A
 PROPOSED LIFE CYCLE
 USE (UNDER CONSTRUCTION)
 S.R. 2442 PG. 10
 S.D. 2011-02-23

YNSONS II PARCEL 2A
 YNSONS II LAND CO., LLC
 ZONE PDC
 USE (UNDER CONSTRUCTION)
 S.R. 2442 PG. 10
 S.D. 2011-02-23

YNSONS II PARCEL 2A
 PROPOSED LIFE CYCLE
 USE (UNDER CONSTRUCTION)
 S.R. 2442 PG. 10
 S.D. 2011-02-23

NOTE:
 THE PROPERTY LINE SHOWN ON THE FDP IS BASED ON RECORDED PLATS
 AND DEEDS FROM THE 1970'S AND MAY BE ADJUSTED BASED ON INFORMATION
 FROM RECENT FIELD SURVEYS AT TIME OF SITE PLAN.



EXISTING CONDITIONS PLAN
ARBOR ROW - BLOCK 'E'
 FINAL DEVELOPMENT PLAN 2011-PR-022-03
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
3/20/12	FOR COUNTY COMMENTS
1/23/12	FOR COUNTY COMMENTS
08/23/11	FOR COUNTY COMMENTS
05/20/11	FOR COUNTY COMMENTS

JOB No.
 DATE: February 24, 2012
 FILE No. 7803-12-001

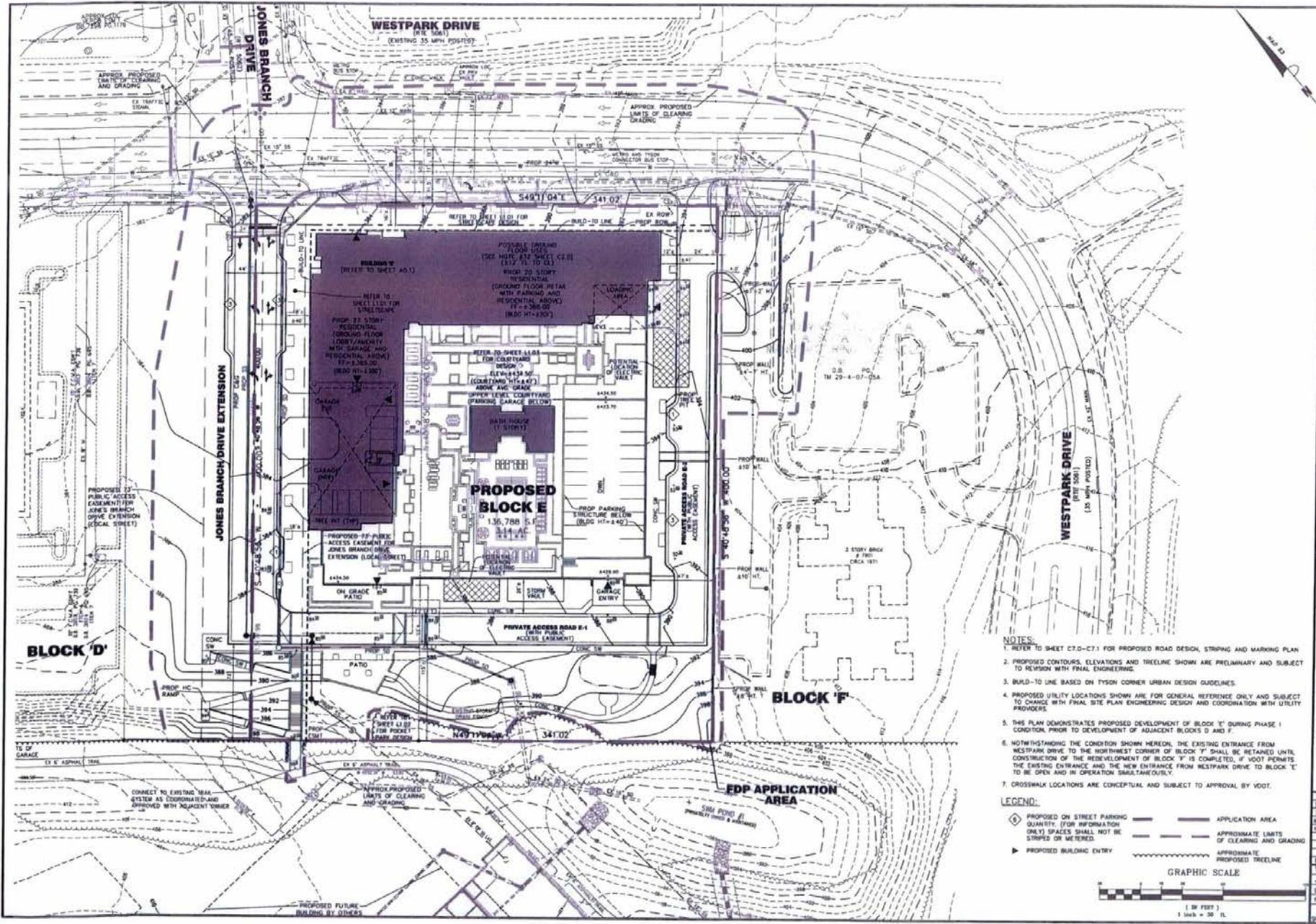
SKET C5.0

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 703.546.1700
 Fax: 703.546.1700

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 C. Howard Estes, Capital Partners



- NOTES:**
1. REFER TO SHEET C7.0-C7.1 FOR PROPOSED ROAD DESIGN, STRIPING AND MARKING PLAN
 2. PROPOSED CONTOURS, ELEVATIONS AND TREELINE SHOWN ARE PRELIMINARY AND SUBJECT TO REVISION WITH FINAL ENGINEERING.
 3. BUILD-TO LINE BASED ON TYSON CORNER URBAN DESIGN GUIDELINES.
 4. PROPOSED UTILITY LOCATIONS SHOWN ARE FOR GENERAL REFERENCE ONLY AND SUBJECT TO CHANGE WITH FINAL SITE PLAN ENGINEERING DESIGN AND COORDINATION WITH UTILITY PROVIDERS.
 5. THIS PLAN DEMONSTRATES PROPOSED DEVELOPMENT OF BLOCK 'E' DURING PHASE I CONDITION, PRIOR TO DEVELOPMENT OF ADJACENT BLOCKS D AND F.
 6. NOTWITHSTANDING THE CONDITION SHOWN HEREON, THE EXISTING ENTRANCE FROM WESTPARK DRIVE TO THE NORTHWEST CORNER OF BLOCK 'E' SHALL BE RETAINED UNTIL CONSTRUCTION OF THE REDEVELOPMENT OF BLOCK 'E' IS COMPLETED, IF VDOT PERMITS THE EXISTING ENTRANCE AND THE NEW ENTRANCE FROM WESTPARK DRIVE TO BLOCK 'E' TO BE OPEN AND IN OPERATION SIMULTANEOUSLY.
 7. CROSSWALK LOCATIONS ARE CONCEPTUAL AND SUBJECT TO APPROVAL BY VDOT.

LEGEND:

- PROPOSED ON STREET PARKING QUANTITY (FOR INFORMATION ONLY) SPACES SHALL NOT BE STRIPED OR METERED.
- PROPOSED BUILDING ENTRY
- APPLICATION AREA
- APPROXIMATE LIMITS OF CLEARING AND GRADING
- APPROXIMATE PROPOSED TREELINE

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

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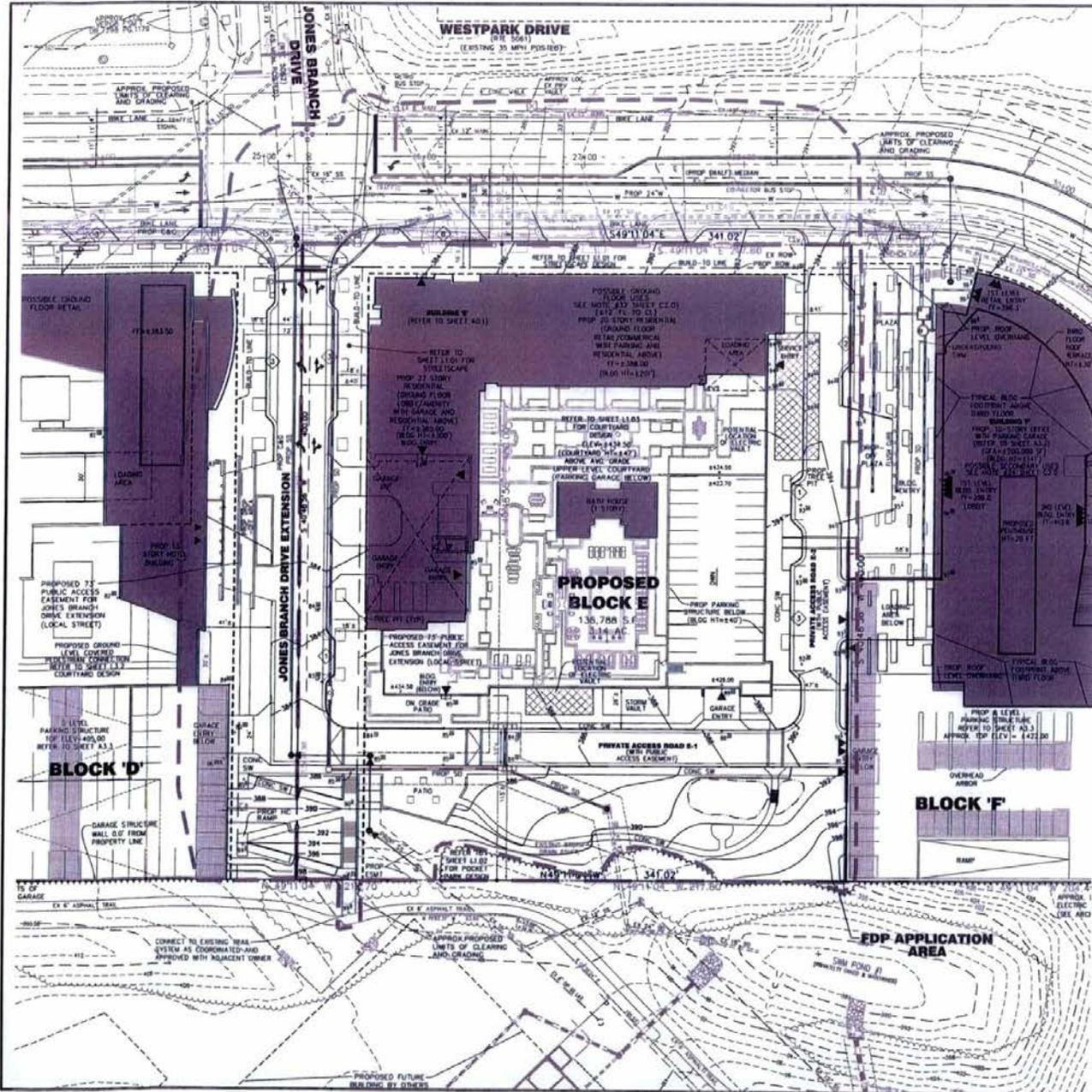
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**FINAL DEVELOPMENT PLAN
 PHASE I CONDITIONS
 ARBOR ROW - BLOCK 'E'
 FINAL DEVELOPMENT PLAN 2011-PR-025-03
 PROVIDENCE DISTRICT - FARRFAX COUNTY, VIRGINIA**

PLAN STAGE

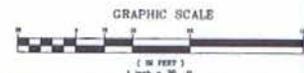
3/20/11	REV. CIVIL COMMENTS
1/23/12	REV. CIVIL COMMENTS
08/29/12	REV. CIVIL COMMENTS
09/24/12	REV. CIVIL COMMENTS

DATE: February 24, 2012
JOB No:
FILE No: 7403-12-001
SHEET: C6.0



- NOTES:**
1. REFER TO SHEET C7.0-C7.1 FOR PROPOSED ROAD DESIGN, STRIPING AND MARKING PLAN
 2. PROPOSED CONTOURS, ELEVATIONS AND TREE LINE SHOWN ARE PRELIMINARY AND SUBJECT TO REVISION WITH FINAL ENGINEERING.
 3. BUILD-TO LINE BASED ON TYSON CORNER URBAN DESIGN GUIDELINES.
 4. PROPOSED UTILITY LOCATIONS SHOWN ARE FOR GENERAL REFERENCE ONLY AND SUBJECT TO CHANGE WITH FINAL SITE PLAN ENGINEERING DESIGN AND COORDINATION WITH UTILITY PROVIDERS.
 5. THIS PLAN DEMONSTRATES PROPOSED DEVELOPMENT OF BLOCK 'E' IN THE ULTIMATE CONDITION AFTER THE BUILDOUT OF THE ARBOR ROW PROJECT. REFER TO SHEET C8.0 FOR INTERIM CONDITION OF BLOCK E INDIVIDUAL DEVELOPMENT.
 6. CROSSWALK LOCATIONS ARE CONCEPTUAL AND SUBJECT TO APPROVAL BY VDOT.

- LEGEND:**
- APPLICATION AREA
 - ◊ PROPOSED ON STREET PARKING QUANTITY (FOR INFORMATION ONLY) SPACES SHALL NOT BE STRIPED OR METERED.
 - ▶ PROPOSED BUILDING ENTRY
 - - - - - APPROXIMATE LIMITS OF CLEARING AND GRADING
 - ~ ~ ~ ~ ~ APPROXIMATE PROPOSED TREELINE



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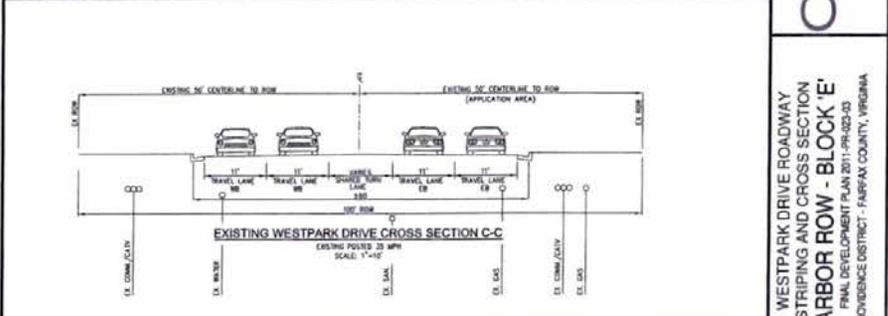
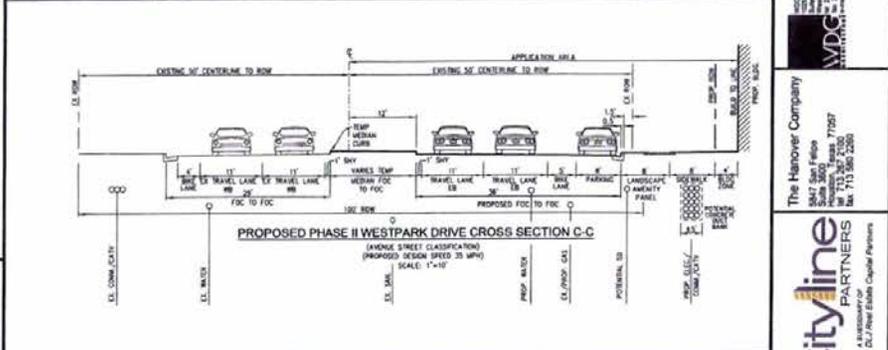
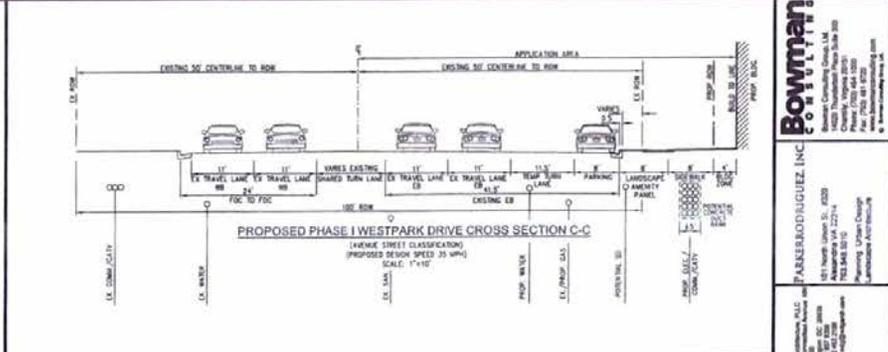
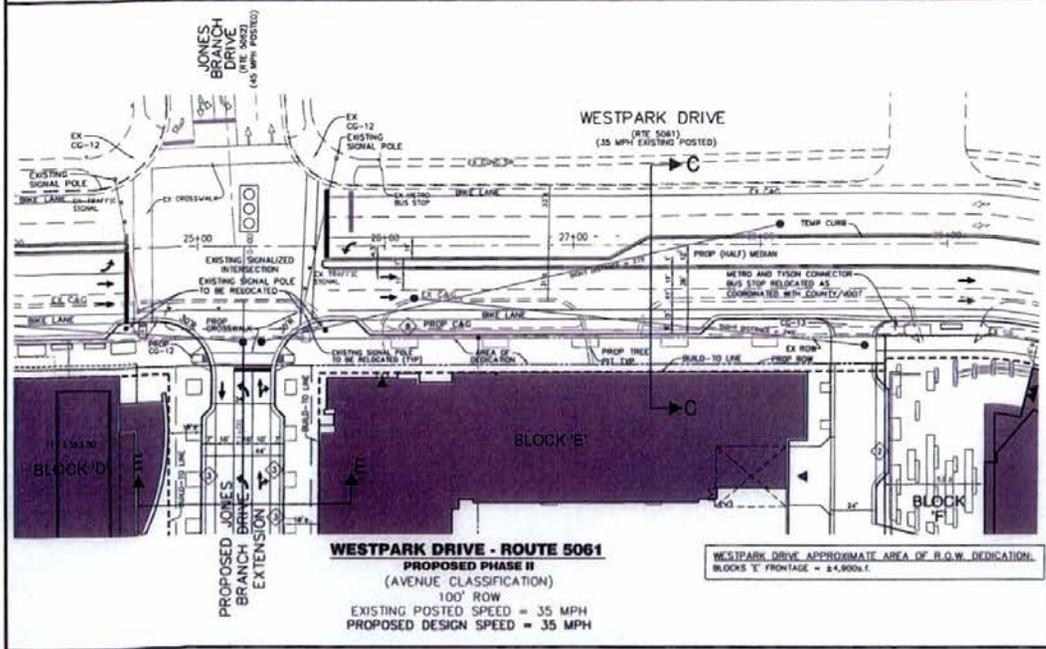
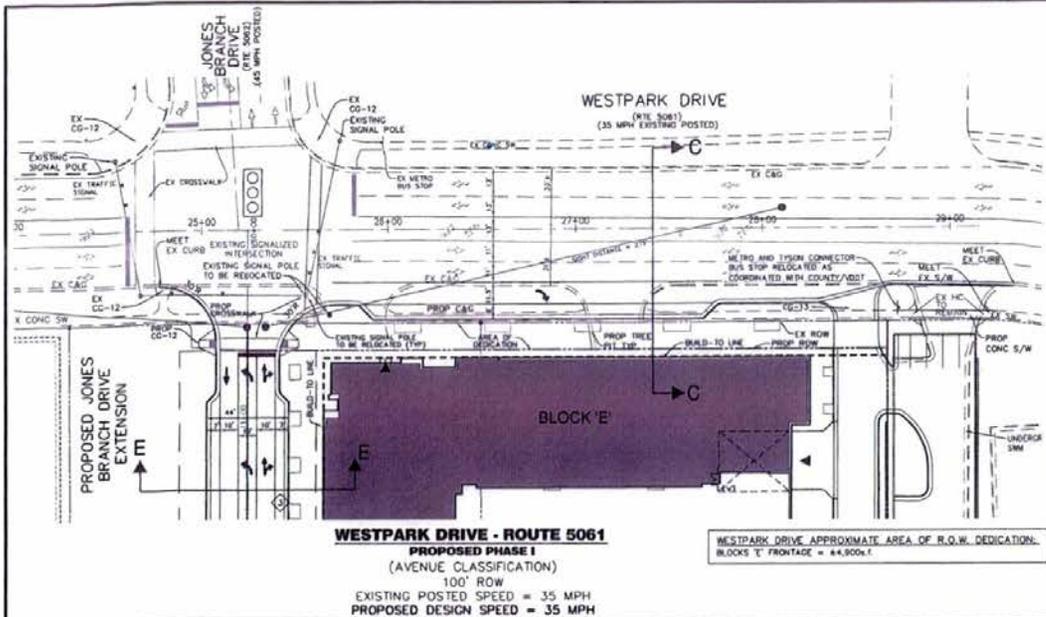
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**FINAL DEVELOPMENT PLAN
 PHASE II CONDITIONS
 ARBOR ROW - BLOCK 'E'
 FINAL DEVELOPMENT PLAN 2011-PR-023-03
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA**

DATE	DESCRIPTION
5/20/12	FOR COUNTY COMMENTS
7/23/12	FOR COUNTY COMMENTS
8/27/12	FOR COUNTY COMMENTS
10/29/12	FOR COUNTY COMMENTS

SCALE: H-T-03
 JOB No.
 DATE: February 24, 2018
 FILE No: 2403 10-001
 SHEET: C6.1



LEGEND:
 - - - - - EXISTING LANE DIRECTION
 - - - - - PROPOSED LANE DIRECTION

NOTES:
 1. FINAL ROAD, CURB, CROSSWALK AND MEDIAN ALIGNMENT (INCLUDING CURB CUT, TURN LANES, MEDIAN BREAKS, PARKING, ETC.) IS SUBJECT TO CHANGE WITH FINAL ENGINEERING SITE PLAN AND VDOT APPROVAL.
 2. REFER TO SHEET L1.01 FOR STREETSCAPE DESIGN ELEMENTS.
 3. AREA OF RIGHT OF WAY DEDICATION SHOWN ON THIS FDP IS APPROXIMATE. FINAL AREAS, LOCATION AND QUANTITIES OF STREET RIGHT OF WAY DEDICATION IS TO BE DETERMINED AT TIME OF FINAL SITE PLAN.
 4. REFER TO SHEET L2.01 FOR ILLUSTRATION OF NORTH SIDE WESTPARK DRIVE ULTIMATE ROAD DESIGN.
 5. EXISTING UTILITIES REPRESENTED HERE ARE APPROXIMATE IN LOCATION AND DESCRIPTION FOR REFERENCE ONLY. OF EXISTING CONDITIONS.
 6. PROPOSED UTILITY LOCATIONS SHOWN ARE FOR GENERAL REFERENCE ONLY AND SUBJECT TO CHANGE WITH FINAL SITE PLAN ENGINEERING DESIGN AND COORDINATION WITH UTILITY PROVIDERS.
 7. ON-STREET PARKING SHOWN FOR INFORMATION ONLY. SPACES SHALL NOT BE STRIPPED OR METELED.
 8. BUS STOP RELOCATION IS TO BE COORDINATED WITH COUNTY/VDOT AT TIME OF SITE PLAN APPLICATION.
 9. PROPOSED DRIVEWAY/ENTRANCE SHALL CONFORM TO THE TYSON T.O.S. AND ARE NOT SUBJECT TO THE P.F.A.

GRAPHIC SCALE
 1" = 20' FT.

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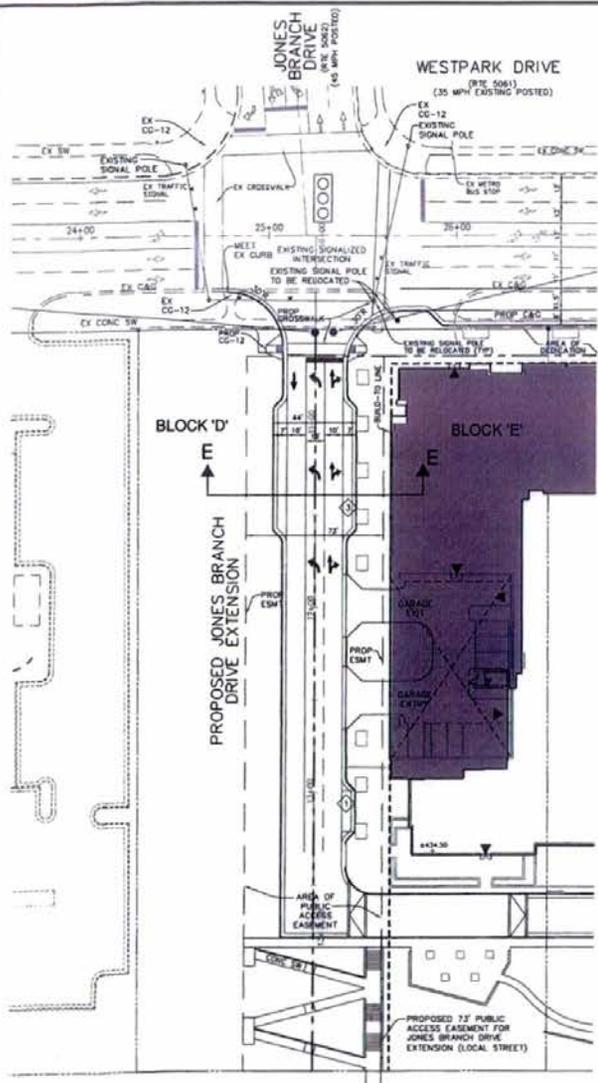
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WESTPARK DRIVE ROADWAY STRIPING AND CROSS SECTION ARBOR ROW - BLOCK E'
 FINAL DEVELOPMENT PLAN 2011-PR-02-03
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

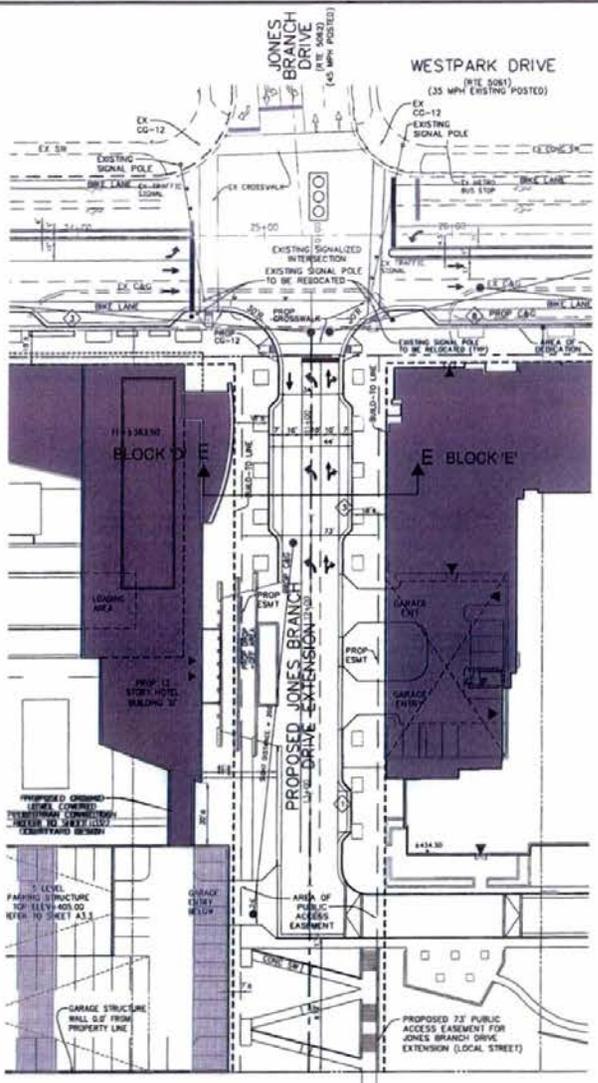
PLAN STATUS	DATE	FOR COUNTY COMMENTS
1.0/2.0	1/2/12	FOR COUNTY COMMENTS
2.0/2.1	1/2/12	FOR COUNTY COMMENTS
2.0/2.2	1/2/12	FOR COUNTY COMMENTS
2.0/2.3	1/2/12	FOR COUNTY COMMENTS

DATE	DESCRIPTION
1/2/12	SCALE: 1"=20'
1/2/12	JOB NO.
1/2/12	DATE: February 24, 2012
1/2/12	FILE NO: 7403-12-001

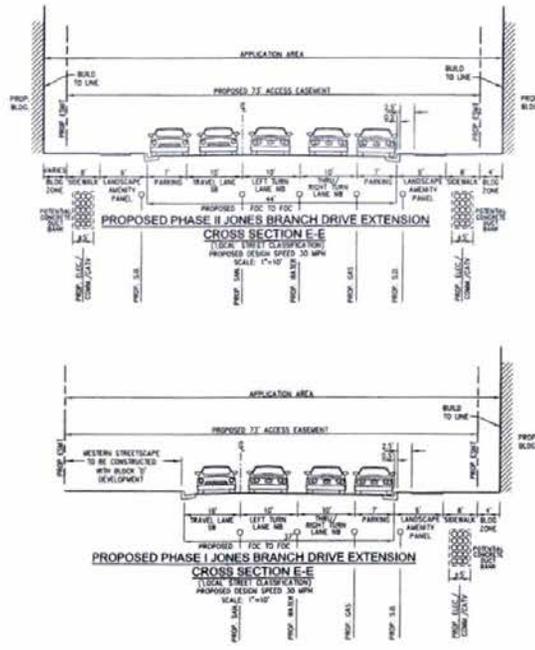
SHEET **C7.0**



JONES BRANCH DRIVE EXTENSION
PROPOSED PHASE I
 (LOCAL CLASSIFICATION)
 PROPOSED EASEMENT 73'
 PROPOSED DESIGN SPEED = 30 MPH

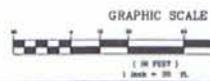


JONES BRANCH DRIVE EXTENSION
PROPOSED PHASE II
 (LOCAL CLASSIFICATION)
 PROPOSED EASEMENT 73'
 PROPOSED DESIGN SPEED = 30 MPH



LEGEND:
 - - - EXISTING LAKE DIRECTION
 - - - PROPOSED LAKE DIRECTION

- NOTES:**
1. FINAL ROAD, CURB, CROSSWALK AND MEDIAN ALIGNMENT (INCLUDING CURB CUT, TURN LANES, MEDIAN BREAKS, PARKING, ETC.) IS SUBJECT TO CHANGE WITH FINAL ENGINEERING SITE PLAN AND VDOT APPROVAL.
 2. REFER TO SHEET L1.01 FOR STREETSCAPE DESIGN ELEMENTS.
 3. AREA OF RIGHT OF WAY DEDICATION SHOWN ON THIS FOP IS APPROXIMATE FINAL AREAS, LOCATION AND QUANTITIES OF STREET RIGHT OF WAY DEDICATION IS TO BE DETERMINED AT TIME OF FINAL SITE PLAN.
 4. REFER TO SHEET L0.01 FOR ILLUSTRATION OF NORTH SIDE WESTPARK DRIVE ULTIMATE ROAD DESIGN.
 5. EXISTING UTILITIES REPRESENTED HERE ARE APPROXIMATE IN LOCATION AND DESCRIPTION FOR REFERENCE ONLY OF EXISTING CONDITIONS.
 6. PROPOSED UTILITY LOCATIONS SHOWN ARE FOR GENERAL REFERENCE ONLY AND SUBJECT TO CHANGE WITH FINAL SITE PLAN ENGINEERING DESIGN AND COORDINATION WITH UTILITY PROVIDERS.
 7. ON-STREET PARKING SHOWN FOR INFORMATION ONLY. SPACES SHALL NOT BE STRIPPED OR METERED.
 8. PROPOSED DRIVEWAY ENTRANCE SHALL CONFORM TO THE TYPICAL D.S. AND ARE NOT SUBJECT TO THE P.F.M.



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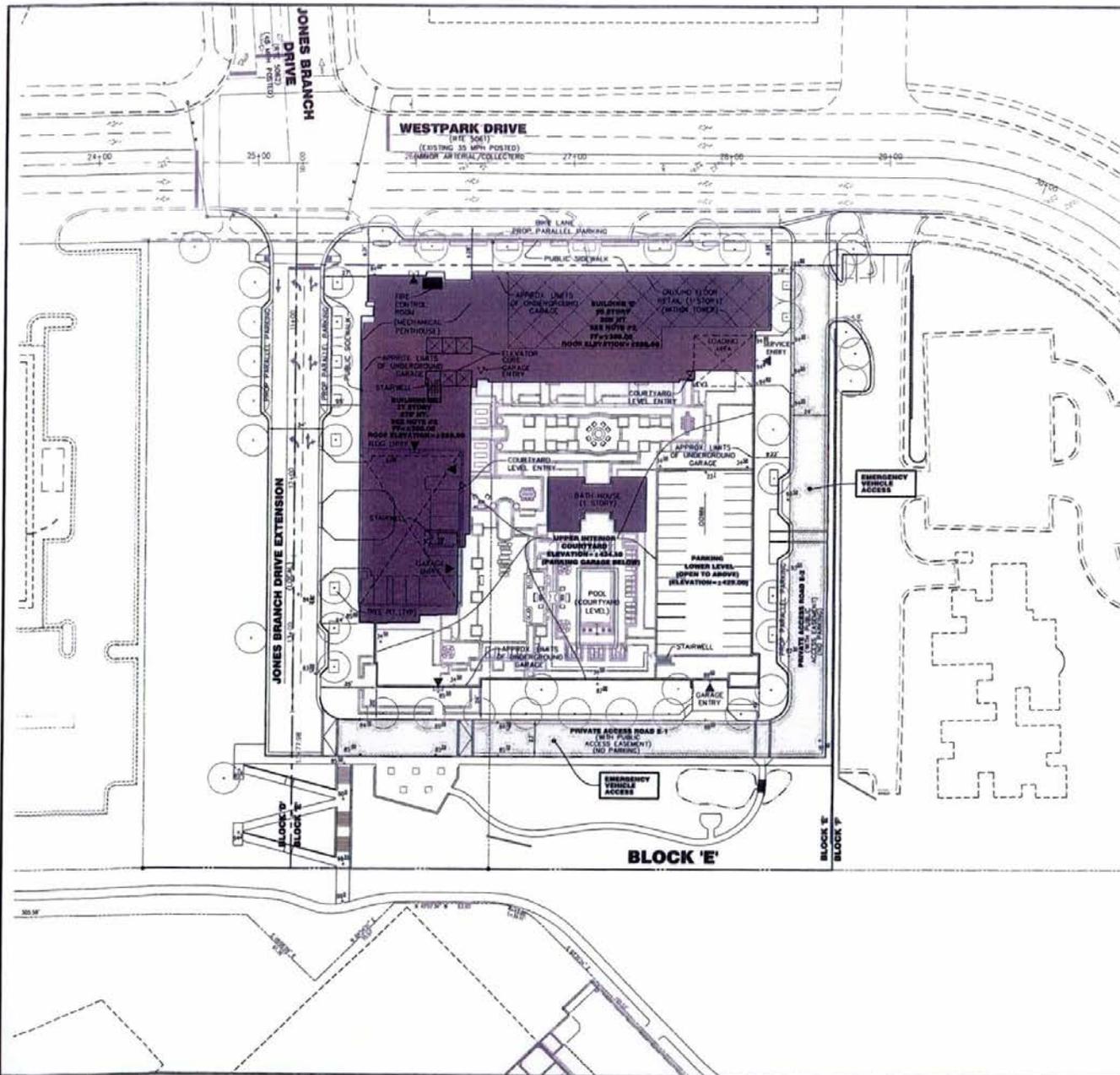
**JONES BRANCH DRIVE EXTENSION
 ROADWAY STRIPING AND CROSS SECTIONS
 ARBOR ROW - BLOCK 'E'**
 FINAL DEVELOPMENT PLAN 2011-PR-023-03
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
11/20/13	PER GRANT COMMENTS
12/23/13	PER GRANT COMMENTS
02/25/14	PER GRANT COMMENTS
03/03/14	PER GRANT COMMENTS

PLAN STATUS

DATE: February 24, 2014
 JOB No.: 1403-13-001
 FILE No.: 1403-13-001

SHEET **C7.1**

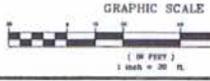


- LEGEND:**
- PEDESTRIAN ACCESS
 - ▶ PROPOSED EXTERIOR BUILDING ENTRY
 - ▷ PROPOSED INTERIOR BUILDING ENTRY
 - ▽ PROPOSED GARAGE LEVEL ENTRY
 - PROPOSED TREE
 - PROPOSED SPOT ELEVATION
 - ◻ PROPOSED GROUND FLOOR RETAIL (1 STORY WITHIN TOWER)
 - ◻ PROPOSED ELEVATOR CORE
 - ▭ PROPOSED STAIRWELL

- NOTE:**
1. BUILDING E CORRECTION TYPE: 1A MODIFIED TO 1B PER TABLE 601 (EXCEPTION 403.2.1.1)
 - USE GROUPS: R-2 (APARTMENTS) (PRIMARY)
A-3 (AMENITIES) (GROUND FLOOR AND LEVEL 5 COURTYARD)
B (LEASING)
S-2 (PARKING GARAGE)
S-1 (RESIDENTIAL STORAGE)
M (MERCANTILE/RETAIL)

- NOTES:**
1. THIS SHEET IS FOR GENERAL REPRESENTATION OF EMERGENCY AERIAL APPARATUS VEHICLE ACCESS ONLY.
 2. LOCATION OF BUILDING CORE ELEMENTS ARE SUBJECT TO REVISION WITH FINAL ARCHITECTURAL DESIGN.

NOTE:
THIS SHEET IS FOR INFORMATION ONLY. SUBSEQUENT ADJUSTMENTS TO PLAN BASED ON FIRE MARSHAL REVIEW OF SITE PLAN WILL NOT REQUIRE SUBMISSION OR APPROVAL OF FDP, CDPA, PCA ETC..



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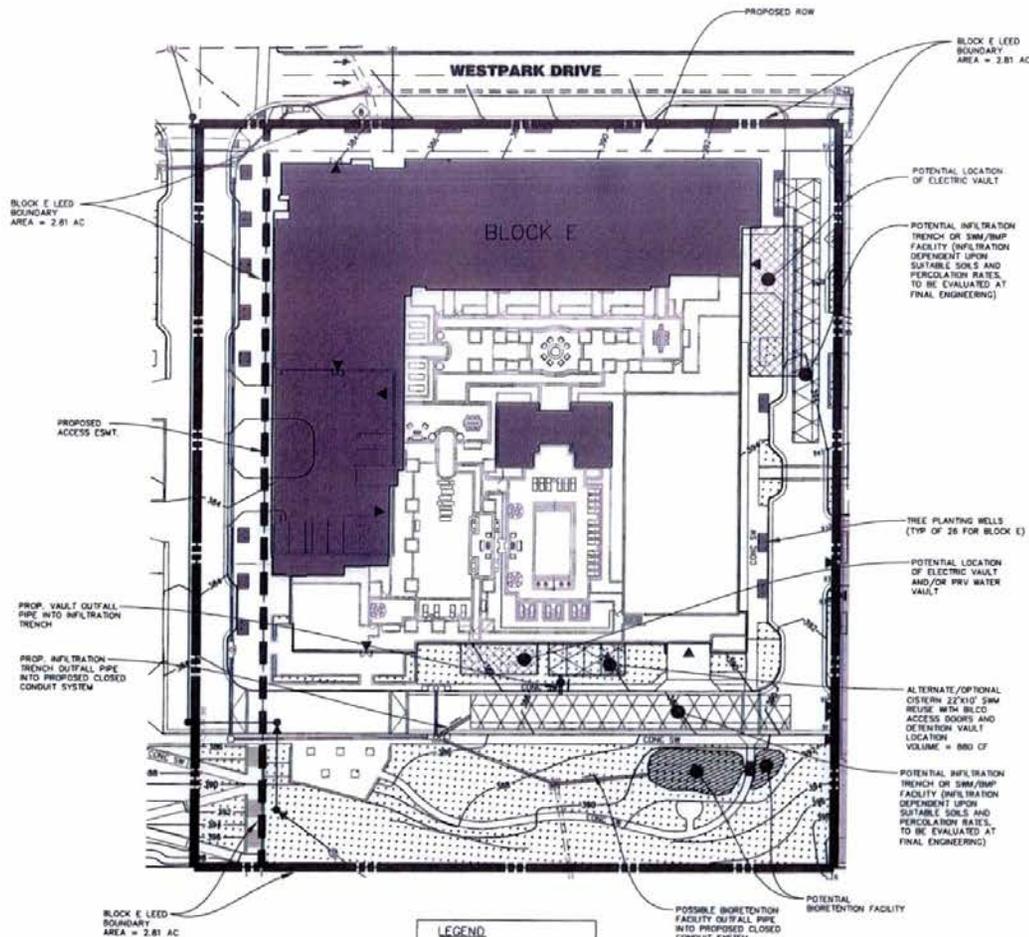
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FIRE VEHICULAR ACCESS EXHIBIT
ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN 2011-FR-022-03
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
3/29/11	FOR COUNTY COMMENTS
1/23/12	FOR COUNTY COMMENTS
08/29/12	FOR COUNTY COMMENTS
05/09/13	FOR COUNTY COMMENTS

SCALE: REVISION
JOB No.
DATE: February 24, 2011
FILE No: 7403-12-001
SHEET: C7.2



LEGEND

	LEED BOUNDARY (2.81 ACRES)
	APPLICATION LINE
	PERVIOUS AREA
	TREE PLANTING WELLS

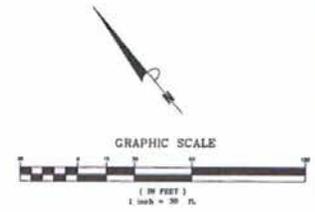
NOTE:

1. STORMWATER MANAGEMENT (SWM) AND BEST MANAGEMENT PRACTICES (BMP) ANALYSIS, NARRATIVES, AND PROPOSED DESIGN AND/OR FACILITIES PRESENTED HEREIN ARE PRELIMINARY BASED ON PROPOSED FDP APPLICATION AND ARE SUBJECT TO REVISION WITH FINAL SITE PLAN APPLICATIONS.
2. THE APPLICANT RESERVES THE RIGHT TO VARY THE NUMBER, SIZE, SHAPE, AND LOCATION OF THE LID PRACTICES WITH FINAL ENGINEERING.

Stormwater Management Design - PFM Deviation Narrative

In keeping with the Comprehensive Plan's policy and objectives of the 'Environmental Stewardship Guidelines' for stormwater management, and the acknowledgement that such goals will require a 'progressive approach' and 'innovative design techniques' for the redevelopment of land in the Tyson's Corner Urban Center, the following deviations from the strict adherence to the Public Facilities Manual (PFM) will be necessary in order to implement such objectives:

- Deviation of PFM Section 6-1304 A1 to allow utilization of infiltration rates less than 0.52 in./hr for field test rate of infiltration systems utilized to meet the Comprehensive Plan requirement for retention of the first 1" of runoff onsite.
- Deviation of PFM Section 6-1306.11 to allow for any detention facility located within a building or garage structure to be governed by building code requirements for access and maintenance.
- Deviation of PFM Section 6-1307.2C to allow for installation of bio-retention and infiltration facilities that utilize in-situ 18" material, provided field tests show adequate infiltration rates exist for in-situ material.
- Deviation of PFM Section 6-1307.2E to set the maximum horizontal setbacks from building foundations be reduced to zero (0) feet in order to facilitate installation of bio-retention and infiltration systems in an urban environment set forth in the Tyson's Corner Design Guidelines.
- Deviation of PFM Section 6-1307.2F to allow installation of bio-retention facilities in the vicinity of loading docks, vehicle maintenance areas or outdoor storage areas to accommodate the urban environment set forth in the Tyson's Corner Design Guidelines.
- Deviation of PFM Section 6-1307.2G to allow for the maximum drainage areas to bio-retention filters utilized for retention of the first 1" of runoff be eliminated in order to accommodate rooftop runoff pipes to proposed structures.
- Deviation of PFM Section 6-1309.2C to allow installation of tree box filters in the vicinity of loading docks, vehicle maintenance areas or outdoor storage areas to accommodate the urban environment set forth in the Tyson's Corner Design Guidelines.



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CONCEPTUAL SWM PLAN
ARBOR ROW - BLOCK 'E'
 FINAL DEVELOPMENT PLAN 2011-PR-022-03
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
3/20/12	FOR COUNTY COMMENTS
3/23/12	FOR COUNTY COMMENTS
05/02/12	FOR COUNTY COMMENTS
05/09/12	FOR COUNTY COMMENTS

DATE: February 24, 2012
 FILE No: 7402-12-001
 SHEET: C9.0

BLOCK E LEED COMPUTATIONS:

NOTE:
SEE SHEET C9.0 FOR LIMITS OF
2.81 ACRES LEED BOUNDARY.

PROJECT: WESTPARK REDEVELOPMENT
COUNTY: FAIRFAX
SUBTITLE: EXISTING CONDITIONS BLOCK E

DATE: 02-01-2012
USER: 450
CHECKED: []
DATE: []

Storm Number	1	2	3
Frequency (YRS)	1	2	10
24-hr Rainfall (in)	2.7	3.2	5.1
Ia/I _r Ratio	0.11	0.11	0.07
Used	0.15	0.13	0.10
Runoff (in)	1.21	1.61	3.63
UNIT Peak Discharge (cfs/acre/in)	1.548	1.562	1.578
Pond and Swamp Factor	3.00	1.00	1.00
0.5% Ponds Used			
Peak Discharge (cfs)	5	7	18

TOTAL RUNOFF VOLUME (EXISTING CONDITIONS)

1 YR STORM: 2.81 AC X 1.21 (IN) X 117/120 X 43560 = 12,343 CU. FT.
2 YR STORM: 2.81 AC X 1.61 (IN) X 117/120 X 43560 = 16,423 CU. FT.

PROJECT: WESTPARK REDEVELOPMENT
COUNTY: FAIRFAX
SUBTITLE: PROPOSED CONDITIONS BLOCK E

DATE: 02-01-2012
USER: 450
CHECKED: []
DATE: []

Storm Number	1	2	3
Frequency (YRS)	1	2	10
24-hr Rainfall (in)	2.7	3.2	5.1
Ia/I _r Ratio	0.11	0.09	0.05
Used	0.11	0.10	0.10
Runoff (in)	1.48	1.91	4.04
UNIT Peak Discharge (cfs/acre/in)	1.572	1.578	1.578
Pond and Swamp Factor	3.00	1.00	1.00
0.5% Ponds Used			
Peak Discharge (cfs)	7	8	18

TOTAL RUNOFF VOLUME (PROPOSED CONDITIONS)

1 YR STORM: 2.81 AC X 1.48 (IN) X 117/120 X 43560 = 15,097 CU. FT.
2 YR STORM: 2.81 AC X 1.91 (IN) X 117/120 X 43560 = 19,483 CU. FT.

TOTAL RUNOFF VOLUME (ALLOWABLE RELEASE)

PER LEED, POST-DEVELOPED VOLUME FOR THE 1 YEAR AND 2 YEAR STORMS MUST NOT EXCEED 75% OF THE EXISTING CONDITIONS VOLUMES. THEREFORE ANY STORAGE REQUIRED SHALL BE MET WITH A REUSE VAULT.

1-YEAR STORM
15,097 CU. FT. - (0.75 X 12,343 CU. FT.) = 5,840 CU. FT.

2-YEAR STORM
19,483 CU. FT. - (0.75 X 16,423 CU. FT.) = 7,166 CU. FT.

SUMMARY
THE 2-YEAR STORM EVENT CONTROLS, AND 7,166 CU. FT. OF STORAGE IS NEEDED TO SATISFY THE LEED REQUIREMENT.

BLOCK E PFM COMPLIANCE:

ALLOWABLE RELEASE COMPUTATIONS (RATIONAL METHOD):

Q=CIA

1) PRE-DEVELOPMENT RUNOFF
TOTAL SITE AREA = 3.14 AC
C = 0.87
I_r = 5.45 IN/HR
I_a = 7.27 IN/HR
Q_{pre} = 11.47 CFS
Q_{max} = 15.29 CFS

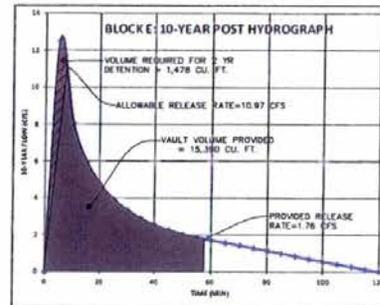
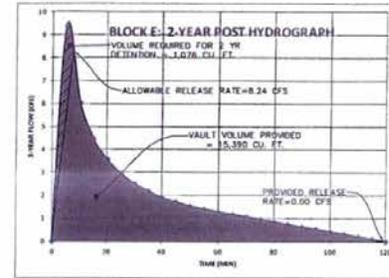
2) POST-DEVELOPMENT DETENTION FACILITY INFLOW
AREA = 2.358 AC
C = 0.33
I_r = 5.45 IN/HR
I_a = 7.27 IN/HR
Q_{post} = 9.29 CFS
Q_{max} = 12.52 CFS

3) POST-DEVELOPMENT ONSITE UNDETAINED
AREA = 0.781 AC
C = 0.36
I_r = 5.45 IN/HR
I_a = 7.27 IN/HR
Q_{und} = 3.23 CFS
Q_{max} = 4.32 CFS

4) ALLOWABLE RELEASE RATE COMPUTATION
Q(ALLOWABLE) = [PRE-DEVELOPED RUNOFF] - [ONSITE UNDETAINED]
Q(ALLOWABLE) = 11.47 CFS - 3.23 CFS = 8.24 CFS
Q(ALLOWABLE) = 15.29 CFS - 4.32 CFS = 10.97 CFS

5) SIMU VAULT RELEASE RATE
Q_{PEAK OUT} = 0.00 CFS
Q_{PEAK IN} = 1.76 CFS

THE RELEASE RATES FROM THE SIMU/REUSE VAULT SHALL BE LOWER THAN THE ALLOWABLE RELEASE RATES FOR THE 2-YR AND 10-YR STORM EVENTS, AS SUCH THE PFM DETENTION REQUIREMENTS HAVE BEEN MET.



BLOCK E OVERALL SWM SUMMARY:

	REQUIRED STORAGE
LEED:	7,166 CF
1" RUNOFF:	4,173 CF
PFM:	1,478 CF

← CONTROLS SWM VAULT STORAGE REQUIREMENT

TO ENSURE THAT THE STORAGE NECESSARY TO DETAIN THE 10-YEAR STORM (PER THE PFM) IS AVAILABLE WITHIN 48 HOURS OF A PREVIOUS STORM, THE VAULT HAS BEEN SIZED AS FOLLOWS:

MAX VOLUME FOR REUSE (LEED) = 7,166 CF
AMOUNT THAT CAN BE DRAINED IN 48 HOURS DURING THE WINTER = 0 CF (IRRIGATION DEMAND)
VOLUME FOR 10-YEAR STORM DETENTION (PFM) = 1,478 CF
7,166 - 0 + 1,478 = 8,644 => 8,750 CF OF STORAGE NEEDED

FINAL BLOCK E STORAGE REQUIREMENT = 8,750 CF
STORAGE PROVIDED THROUGH INFILTRATION: 15,380 CF

NOTE:

- STORMWATER MANAGEMENT (SWM) AND BEST MANAGEMENT PRACTICES (BMP) ANALYSIS, NARRATIVES, AND PROPOSED DESIGN AND/OR FACILITIES PRESENTED HEREIN ARE PRELIMINARY BASED ON PROPOSED FDP APPLICATION AND ARE SUBJECT TO REVISION WITH FINAL SITE PLAN APPLICATIONS.
- THE APPLICANT RESERVES THE RIGHT TO VARY THE NUMBER, SIZE, SHAPE, AND LOCATION OF THE LD PRACTICES WITH FINAL ENGINEERING.

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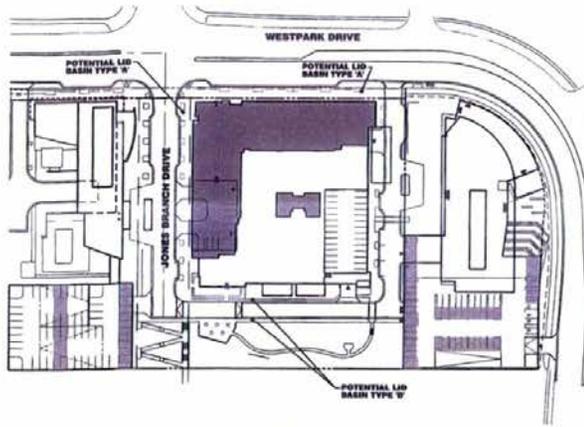
Cityline
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www.cityline.com

ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN 2011-PF-022-03
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

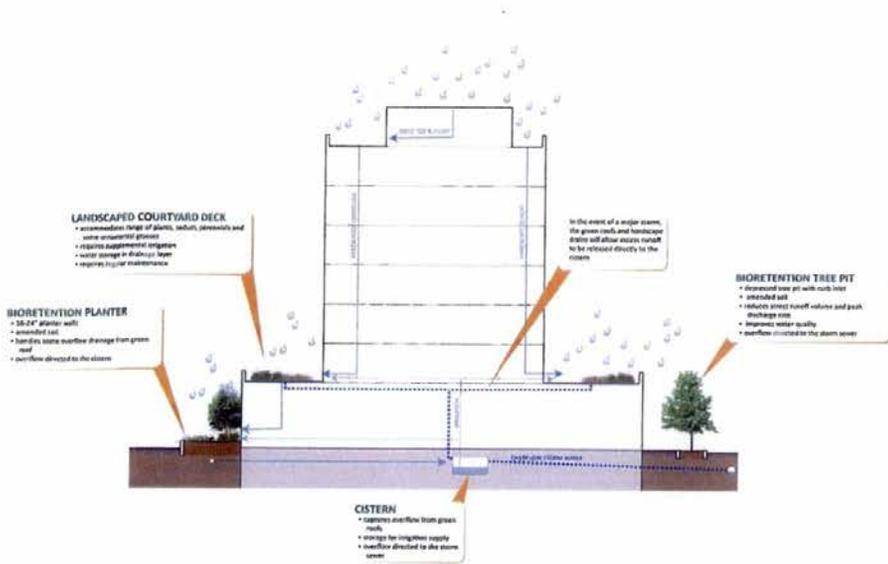
BLOCK E SWM COMPUTATIONS (2 OF 2)

DATE	DESCRIPTION
1/20/12	FOR COUNTY COMMENTS
1/24/12	FOR COUNTY COMMENTS
02/02/12	FOR COUNTY COMMENTS
02/08/12	FOR COUNTY COMMENTS

SCALE: 1/8" = 1'-0"
JOB No.:
DATE: February 24, 2012
FILE No.: 2403-12-001
SHEET: C9.2



1 LOW IMPACT DEVELOPMENT TECHNIQUES - CONCEPT PLAN
NTS



CONCEPTUAL BUILDING DIAGRAM FOR L.I.D. TECHNIQUES



BASIN TYPE 'A' & PERMEABLE PAVERS



BASIN TYPE 'B'



NOTE:
1. THIS PLAN IS INTENDED FOR INFORMATION ONLY TO DEMONSTRATE POTENTIAL L.I.D. METHODS OF RAINWATER REUSE. IN ACKNOWLEDGEMENT OF THE TYSON URBAN CENTER COMPREHENSIVE PLAN GUIDELINES FOR STORM WATER MANAGEMENT, FINAL METHODS, MEANS, LOCATIONS, SIZES AND SPECIFIC L.I.D. FACILITIES WILL VARY WITH FINAL ENGINEERING DESIGN.
2. REFER TO SHEET LS-02 FOR ADDITIONAL SUSTAINABILITY DESIGN INFORMATION.

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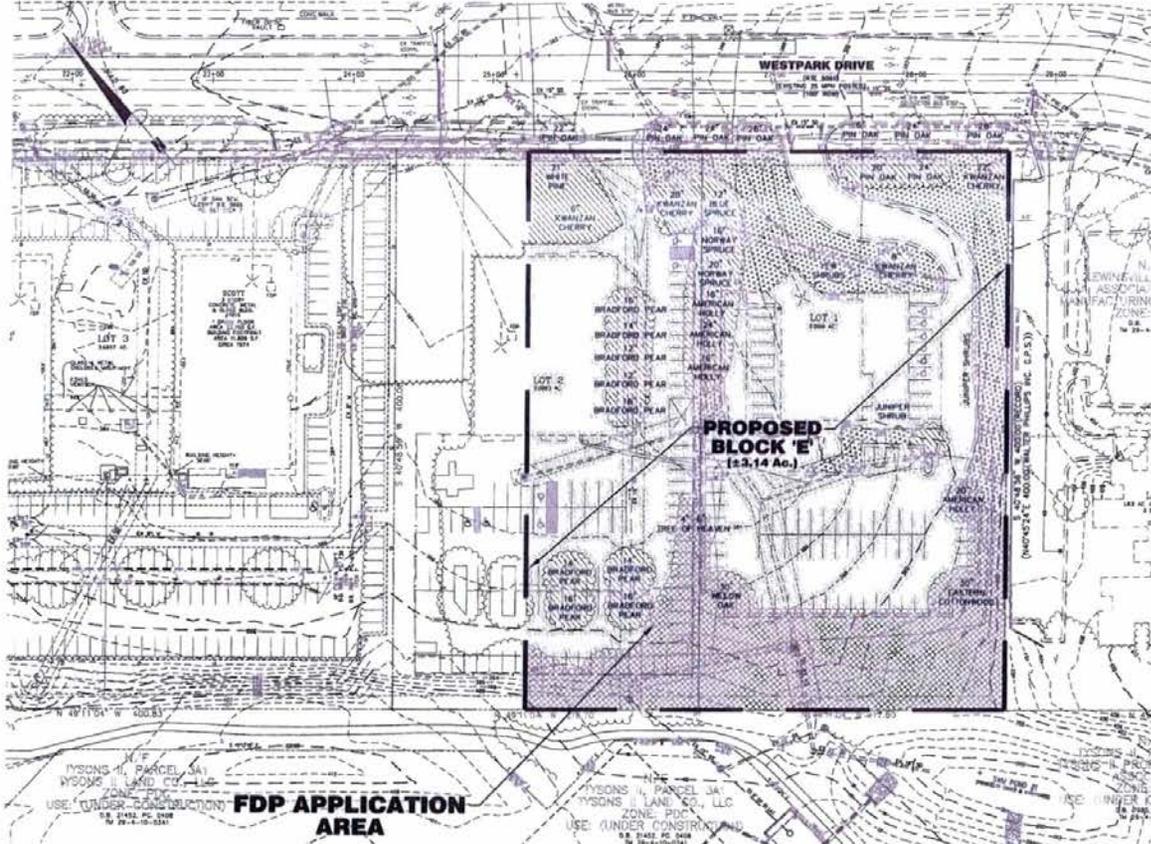
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LOW IMPACT DEVELOPMENT CONCEPT PLAN
ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN 2011-PR-020-03
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
1/20/12	FOR COUNTY COMMENTS
1/23/12	FOR COUNTY COMMENTS
2/2/12	FOR COUNTY COMMENTS
2/15/12	FOR COUNTY COMMENTS

DATE: February 24, 2012
FILE NO: 7002-12-001
SHEET: C10.0



FDP APPLICATION AREA

Table 12-6 Tree Preservation Target Calculations and Metrics

A	Tree Preservation Area of existing tree canopy from existing Vegetation Map.	1.61 AC.
B	Percentage of area site area covered by existing tree canopy.	32%
C	Percentage of 10-year canopy required for site (see Table 12-6) if the Comprehensive Plan Goal - 30%	129.03 (29.4 AC.)
D	Percentage of the 20-year tree canopy requirement that should be met through tree preservation.	126.03 (29.4 AC.)
E	Projected amount of canopy requirement that will be met through tree preservation.	126.03 (29.4 AC.)
F	Was the Tree Preservation Target minimum met?	NO
G	If No for line F, then amount to preserve from the Tree Preservation Target shall be provided on the plan that either is in place at the time of the land disturbance or in 12 months if a plan with a narrative that provides a clear and specific explanation of why the Tree Preservation Target cannot be met. Provide exact metrics where applicable and include:	
H	If 12-6 G is "NO" or "N/A", it shall be assessed in accordance with 12-608.4	OK
I	If 12-6 G is "NO" or "N/A", it shall be assessed in accordance with 12-608.4	OK
J	Please provide information on the 10-year Tree Canopy Calculations as per instructions in Table 12-6	N/A

NOTE: A DEVIATION FROM THE TREE PRESERVATION TARGET HAS BEEN REQUESTED AS SHOWN ON ATTACHED REQUEST LETTER.

'BLOCK E' COVER TYPE

KEY	COVER TYPE	SPECIES TYPE	SUCCESSION STAGE	CONDITION	TOTAL AREA
[Pattern]	FOREST	ORANGE, BLACK LOCUST, BLACK CHERRY, NORWAY SPRUCE, PIN OAK, WHITE PINE, TULIP POPLAR	EARLY	FAIR TO POOR	.42 AC.
[Pattern]	DEVELOPED LAND	N/A	N/A	N/A	1.68 AC.
[Pattern]	LANDSCAPE TREE CANOPY	SEE EIM	MD-LATE	FAIR TO GOOD	.40 AC.
[Pattern]	MISC SHRUB AND GROUND COVER	N/A	N/A	FAIR TO GOOD	.44 AC.

'DOMINANT TREE SPECIES'
 TOTAL SITE AREA = 3.14 AC.
 EXISTING TREE CANOPY = 44,516 S.F. OR 1.02 AC.
 (.40 AC. OR 17,472 S.F. LANDSCAPE TREE CANOPY = .62 AC. OR 27,044 S.F. FOREST)

Bowman CONSULTING

July 23, 2012
 Mike Knapp - Director
 Fairfax County Urban Forest Management Division
 13090 Government Center Parkway
 Fairfax, VA 22035

Re: Arbor Row Block 'E' Tree Preservation Target Deviation Request
 FDP 2011-PR-023-03

Dear Mr. Knapp,

This letter is to request a deviation to the Tree Preservation Target requirements for the above referenced site. Fairfax County tax assessment map number 0204-07-0001 and a portion (47 acres) of 0204-07-0002. The subject property lies within Sub-Area Two (South West) of the South Sub-Chapter of the Tysons Corner Urban Center Planning (Tysons) within Area II of the Fairfax County Comprehensive Plan. The subject property is part of a successful rezoning application KZCDP-2011-26-02 with proposed zoning category of PTC, and is subject of partial PCA-88-D-005-7.

According to the Existing Vegetation Map, prepared by Bowman Consulting Group, the property (0.14 acres) is currently covered by approximately 1.63 acres or 37% tree/canopy cover. The final development plan proposes to clear 1.63 acres for proposed grading and site preparation improvements. For the Comprehensive Plan 10-year tree canopy goal, 10% (3.14 acres) tree cover is required for the site. This can be satisfied by tree preservation, tree planting or a combination of both. According to these numbers, the site has a tree preservation target of 18 acres (314 acres x 37%). Since no preservation credits will be taken, a tree preservation target deviation is hereby requested.

The deviation is based on the following three allowable deviation conditions as outlined in the Fairfax County Public Facilities Manual (PFM). They are as follows:

- Section 12-608.3A(1): Meeting the Tree Preservation Target would preclude the development of uses or densities otherwise allowed by the Zoning Ordinance.
- Section 12-608.3A(2): Meeting the tree preservation Target would require the preservation of trees that do not meet standards for health and condition and other vegetation and risk management requirements of 12-608.4(a).
- Section 12-608.3A(3): Construction activities could be reasonably expected to impact existing trees or forest areas used to meet the Tree Preservation Target to the extent that would not likely persist in a healthy and structurally sound manner for a minimum of 10-years in accordance with the post-development standards for tree and forested areas provided in 12-608.4 and 12-604.

Significant portions of the existing vegetation on the referenced site had been planted with the previous development of the property while other portions of the existing vegetation on the site are mature wooded areas that were not cleared during the previous development process. Anticipating to care any of these mature trees would adversely impact development potential as envisioned by the Comprehensive Plan/PTC Initiative and would result in unnecessary and unnecessary hardship to the developer.

Per field observation, many of the existing trees and shrubs proposed to be removed are in fair/poor condition, displaying unstable health and/or structural conditions that may be hazardous to either life or property, including unstable canopies, overgrown limbs, insect/disease infestations, girdling, etc. Per Section 12-608.3-A, trees that do not meet pre-development standards for structural integrity and health shall not be afforded tree canopy credit and shall be subject to removal.

In addition, proposed grading and construction improvements (roads, structures, utility infrastructure, etc.) will significantly impact existing trees and shrubs specified to be removed. Proposed construction will cause direct physical damage to root systems and above ground portions of trees that could result in or predispose trees to structural failure and health problems. Per FPM Section 12-608.3B, trees determined to be dead, declining, hazardous or a maintenance issue due to impacts from construction or environmental changes resulting from construction shall be subject to removal.

The basis for this deviation is warranted as a result of the site engineering necessary within the portion of the Tysons Corner Urban Center redevelopment. The Tree Preservation Target vegetation requirements cannot be satisfied with this redevelopment. Therefore, it is requested that UPFMD deem the tree preservation requirement will be hereby satisfied with the planting of the 10-year tree canopy requirements that shall be planted with the redevelopment. Please refer to the project landscape plans.

Thank you for your assistance and cooperation in this matter. Please contact me at 703-464-1000 if you should have any questions regarding this matter.

Sincerely,

 Greg Elford, Project Representative
 P.E., I.A., C.E., C.E.M., N.A., N.R.S.A.
 Bowman Consulting Group

LEGEND

- [Symbol] EXISTING INDIVIDUAL TREE LINE
- [Symbol] EXISTING TREE CANOPY LINE
- [Symbol] AREA OF FDP APPLICATION

GRAPHIC SCALE



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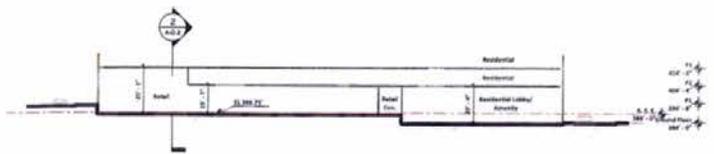
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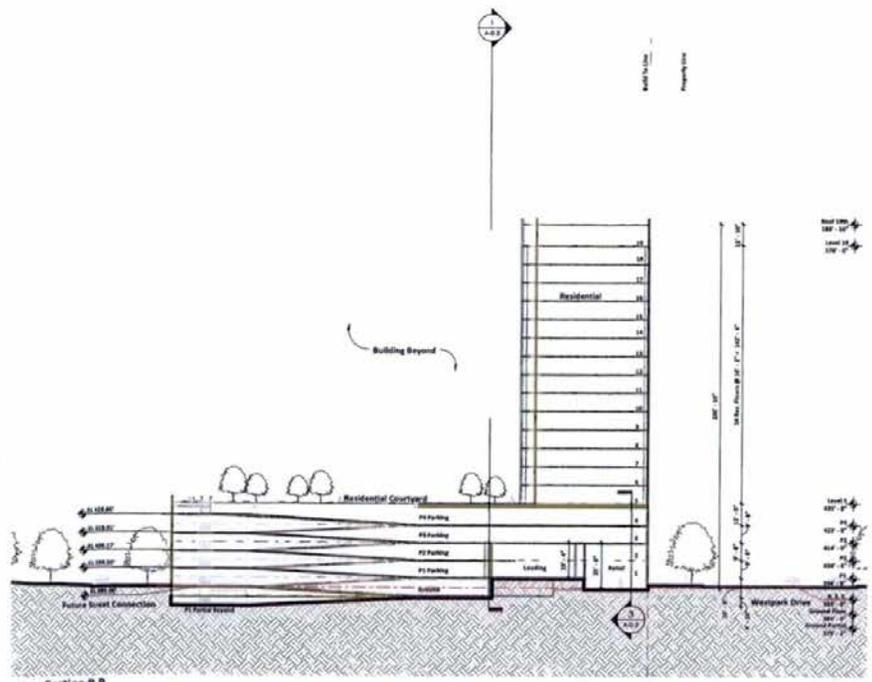
EXISTING VEGETATION MAP
ARBOR ROW - BLOCK 'E'
 FINAL DEVELOPMENT PLAN 2011-PR-023-03
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

IN ALL STATES
 3/23/12 FOR COUNTY COMMENTS
 1/24/12 FOR CITY COMMENTS
 08/29/12 FOR COUNTY COMMENTS
 04/26/12 FOR CITY COMMENTS

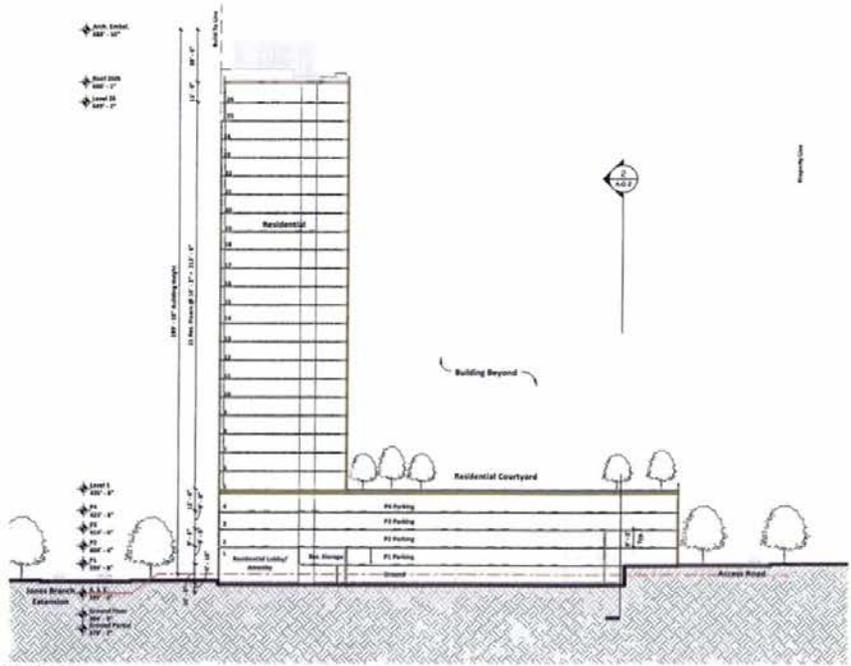
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 JOB No.
 DATE February 24, 2012
 FILE No. 7402-10-001
 SHEET C11.0



3 Section C-C
Scale: 1" = 8'-0"



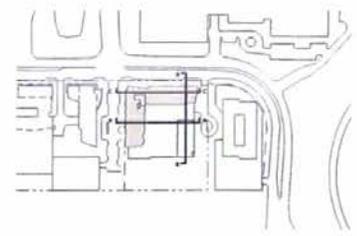
2 Section B-B
Scale: 1" = 8'-0"



1 Section A-A
Scale: 1" = 8'-0"

NOTES:

- Maximum building heights include penthouses and architectural features.
- Refer to landscape drawings for the extent of design for the roof area and site/structure.
- Refer to Civil drawings for the site design, street design and utilities.
- Underground pipes and utilities always are subject to adjustments at the time of site plan approval.
- Site sections presented on sheet A-2 are provided to aid in the understanding of grade change across the subject property and the relationship of proposed buildings and other uses. Building design and the final grading are subject to change with final engineering and architectural design.
- For information only.



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 FAIRBERG & BOBENZ, INC.
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SECTIONS A-A, B-B, C-C
ARBOR ROW - BLOCK 'E'
 1100 S. BELMONT ST., ARLINGTON, VA 22204
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
10/12/12	Per County Comments
10/23/12	Per County Comments
10/29/12	Per County Comments
10/29/12	Per County Comments

SCALE: As Indicated
 JOB No.: WA11041
 DATE: 10/12/12
 FILE No.: 1403-12-001

SHEET **A-0.2**



A



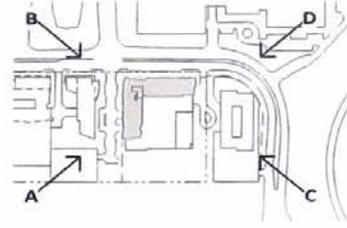
B



C



D



NOTE:
For information only. With eyes closed, existing site conditions, and do not represent the optimum alternative building height proposed for each building.

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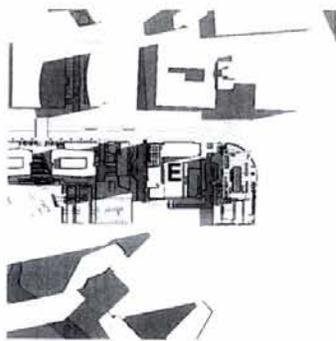
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Raleigh, NC 27603
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277 Pine Grove Circle, Perkasie, PA 19372

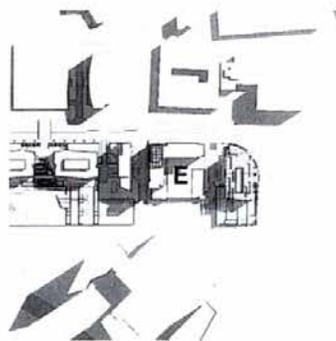
PROPOSED DEVELOPMENT WITH PROPOSED
NEIGHBORING PROPERTIES
ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN 2014.09.03
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	
10/14/12	Per County Comments
11/15/12	Per County Comments
12/17/12	Per County Comments
12/20/12	Per County Comments
DATE	DESCRIPTION
	SCALE: As Indicated
	JOB No: WA11041
	DATE: 2012.03.09
	FILE No: 7420-12-011

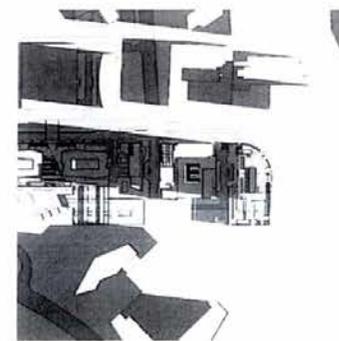
SHEET **A-0.3**



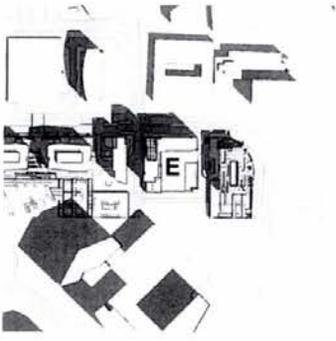
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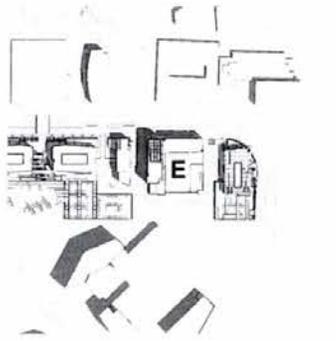
June 21 - 9:00 am



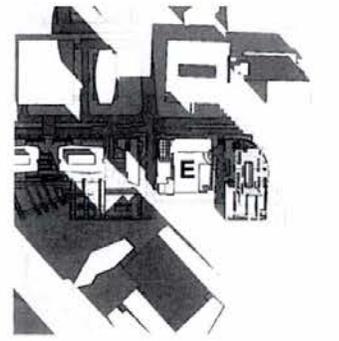
December 21 - 9:00 am



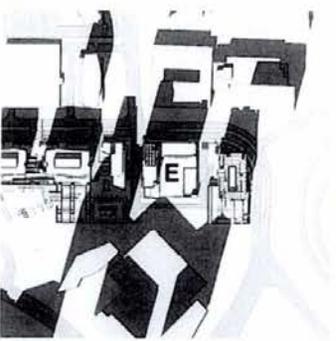
March 21, September 21 - 12:00 pm



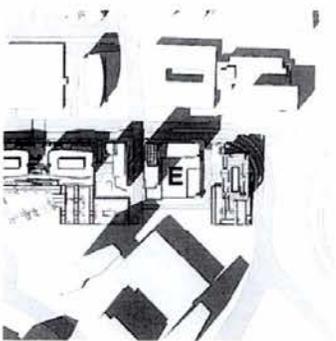
June 21 - 12:00 pm



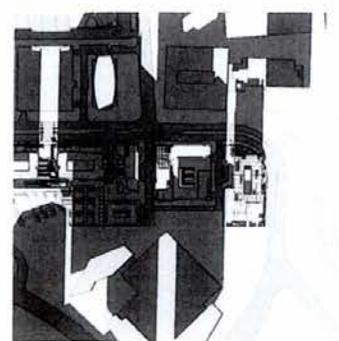
December 21 - 12:00 pm



March 21, September 21 - 3:00 pm



June 21 - 3:00 pm



December 21 - 3:00 pm

NSCL
For Information Only

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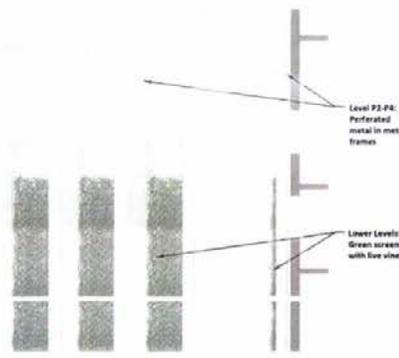
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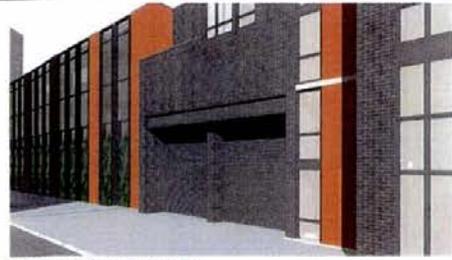
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SHADOW STUDY
ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN 2011-PR-003
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

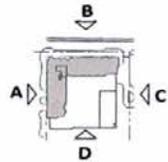
PLAN STATUS	
1/20/11	Per County Comments
1/24/12	Per County Comments
8/28/12	Per County Comments
12/09/12	Per County Comments
DATE	DESCRIPTION
SCALE:	
JOB No:	WA11041
DATE:	2012.03.08
FILE No.:	7403-12-001
SHEET	A-0.4



Green Screen Detail
NOT TO SCALE

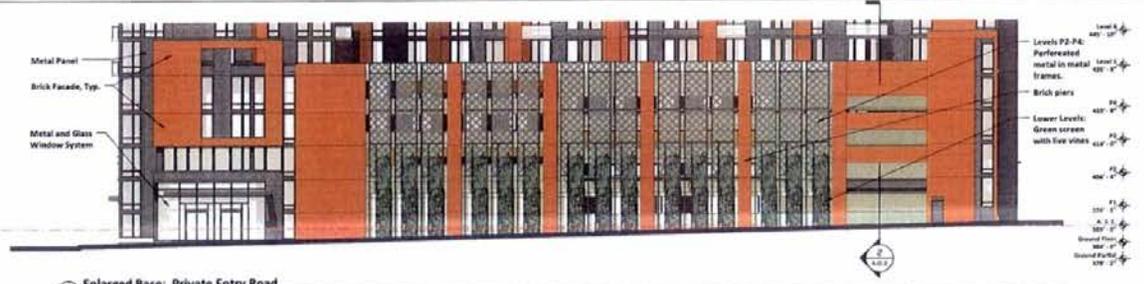


OVERHEAD DOORS DETAIL
NOT TO SCALE

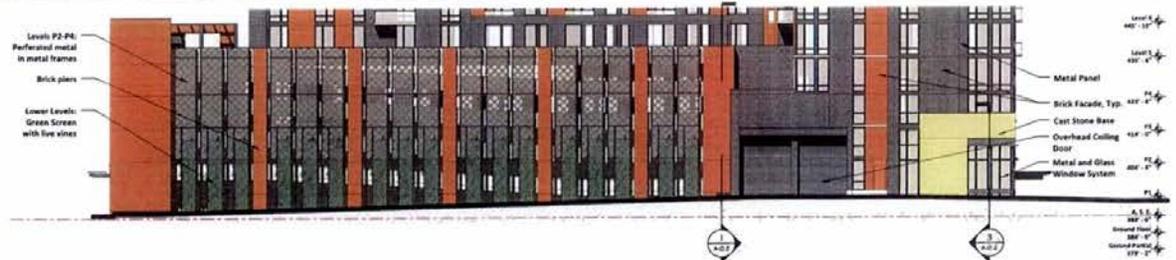


NOTED LEVELS/CONTROLS
 WALLS - Cast Stone & Brick
 ROADWAY - Precast Panels
 CEILING - Custom Panel with LED's and decorative lighting

NOTES
 For information only. All building materials are subject to change provided they do not affect the general quality and character of the building.



(D) Enlarged Base: Private Entry Road
Scale: 1/8" = 1'-0"



(C) Enlarged Base: Private Entry Road
Scale: 1/8" = 1'-0"



(B) Enlarged Base: Westpark Drive
Scale: 1/8" = 1'-0"



(A) Enlarged Base: Jones Branch Drive Extension
Scale: 1/8" = 1'-0"

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 Fax: 703.737.2288

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ELEVATIONS - BASE
ARBOR ROW - BLOCK 'E'
 FINAL DEVELOPMENT PLAN (201) - PENDING
 PROVIDENCE DR (R61) - FREDERICK COUNTY, VIRGINIA

DATE	DESCRIPTION
12/12/12	Final County Comments

DATE	DESCRIPTION
12/12/12	As indicated

SHEET **A-0.6**

NOTES:
For information only. These views are illustrative examples and are subject to final engineering and design.



Overall View Looking at Entrance



Enlarged View at Base of Building Looking at Entrance

Bowman
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Bowman Consulting Group, Ltd.
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PARBERBRODSTICHEL, INC.
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PARTNERS
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10000

VIEW - ENTRANCE
ARBOR ROW - BLOCK 'E'
FINAL REDEVELOPMENT PLAN (2014) - PR. 033
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	DATE	DESCRIPTION
8/20/12	Per County Comments	
7/23/12	Per County Comments	
6/29/12	Per County Comments	
5/09/12	Per County Comments	

DATE	DESCRIPTION
SCALE:	1/2" = 1'-0"
JOB No.:	WA11041
DATE:	2012.03.08
FILE No.:	1405-12-001

SHEET **A-0.7**

NOTE:
For information only. These views are illustrative in nature and are subject to final engineering and design.



Overall View from Westpark Drive East



Enlarged View at Base of Building from Westpark Drive East

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20254-1214
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Landscape Architecture

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VIEWS - WESTPARK DRIVE EAST
ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN 2011-18-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS
2012/12 Plan County Comments
2012/12 Plan County Comments
2012/12 Plan County Comments
2012/12 Plan County Comments

DATE	DESCRIPTION
SCALE	1/2" = 1'-0"
JOB No.	WA11041
DATE	2012.03.08
FILE No.	7403-12-001

SHEET **A-0.8**



Rooftop View: North



Rooftop View: South

NOTES:
For information only. These views are illustrative examples and are subject to final engineering and design.

ROOF VIEWS

ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN 2011-PR-023
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE	DESCRIPTION
2011.12.01	Per County Comments
2012.01.01	Per County Comments
2012.03.01	Per County Comments
2012.03.01	Per County Comments

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 Cityline Capital Partners

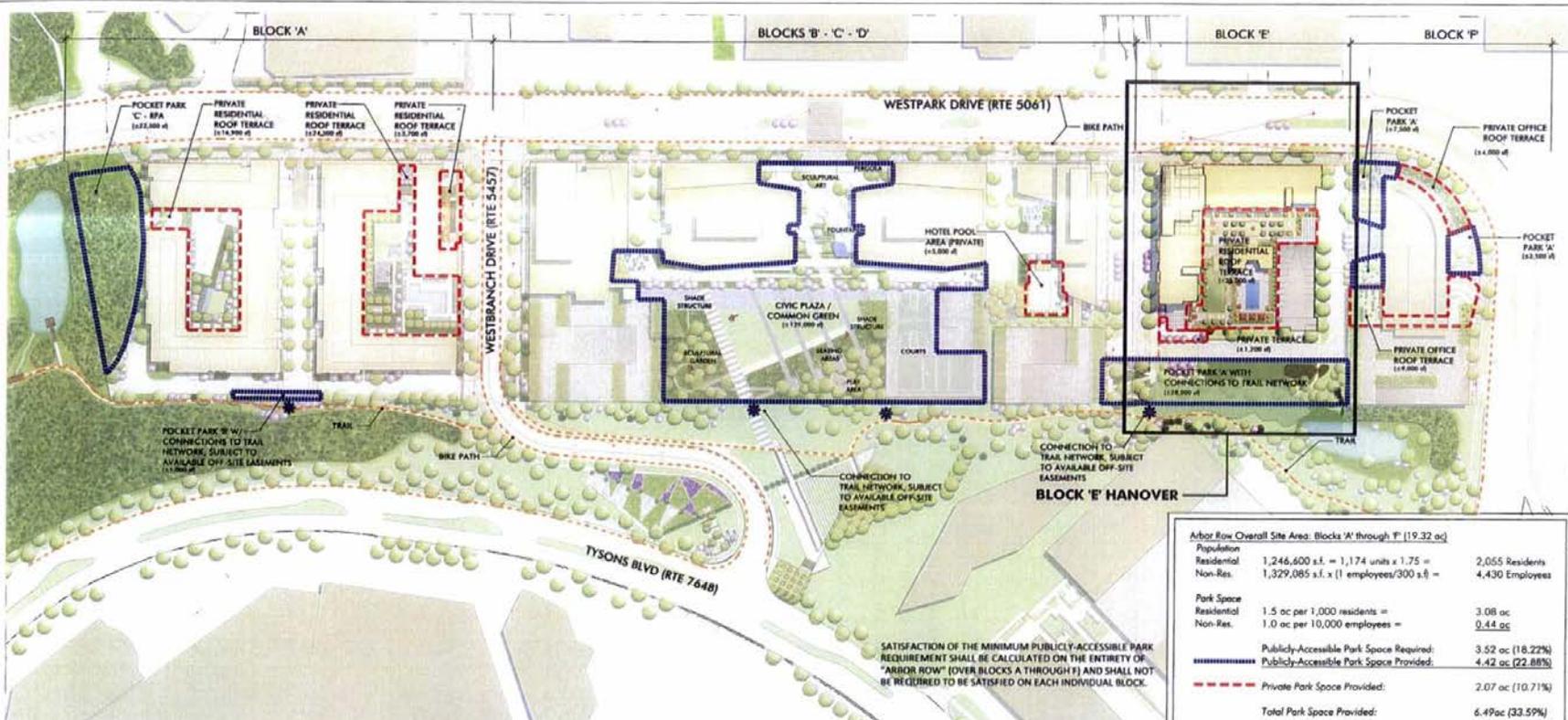
The Hanover Company
 3000 N. 1st Street
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 Fax: 703.586.2200

WDC
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 Fax: 703.586.2200

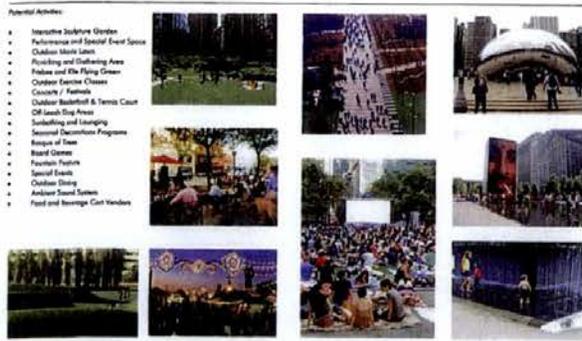
PAISERRO FIGUEROA, INC.
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Boyman
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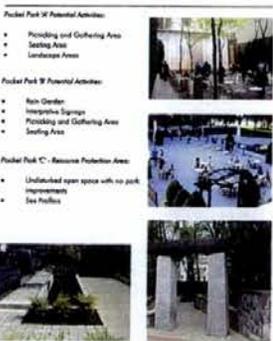
SHEET **A-0.9**



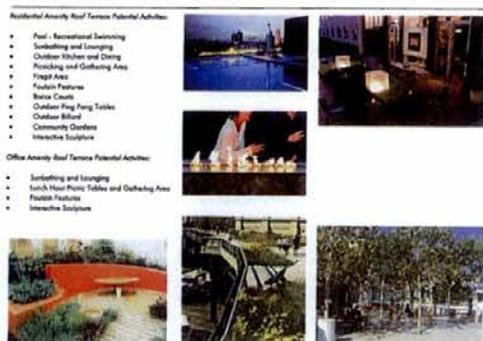
COMMON GREEN / CIVIC PLAZA - a flexible open space with open lawn areas, serving as the recreation and social focus of a neighborhood or larger area. Typically located along gathering places including public art and large enough to support casual programmed use as well as community events. Serves as a focal point and unique place-making plan for civic purposes and commercial supporting activities.



POCKET PARKS - small scale open spaces designed for casual use by people working and living in the immediate area.



PRIVATE AMENITY ROOF TERRACES - provides outdoor amenity space for residents and workers of residential building and office complexes.



BLOCK 'E' FOP CALCULATIONS

Overall Site Area 136,788 sf (3.14 ac)

Population

- Residential: ±509,800 sf
- Retail: ±7,000 sf
- Office: 0

Publicly-Accessible Park Space: ±28,000 sf (0.64 ac)

Private Park Space Provided: ±27,200 sf (0.62 ac)

Total Park Space Provided*: ±55,200 sf (1.27 ac)

*For reference only.

PUBLICLY-ACCESSIBLE PARK SPACE PROVIDED WITHIN BLOCK 'E' SHALL CONTRIBUTE TO THE OVERALL PUBLICLY-ACCESSIBLE PARK SPACE OF THE ARBOR ROW CDP



THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

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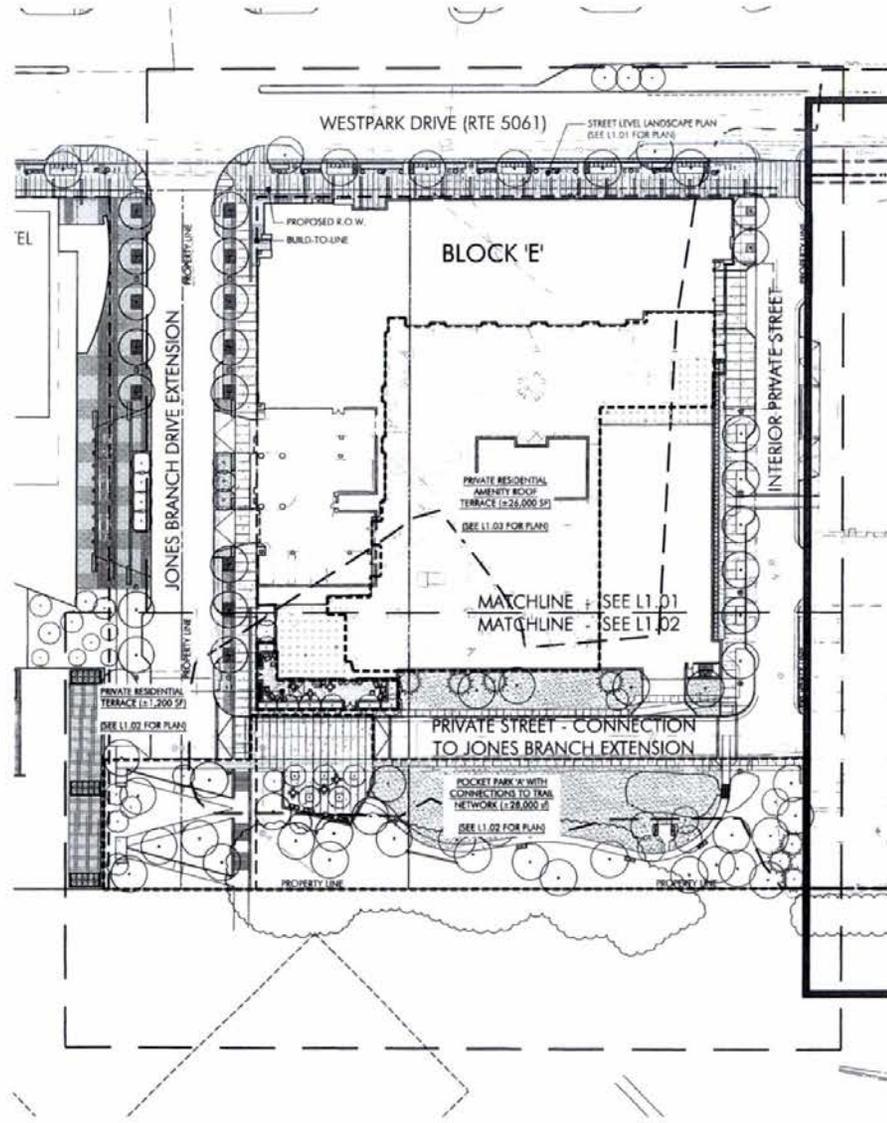
URBAN PARKS PLAN
ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN 2011-PRD-01
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS
 8/9/12 COUNTY COMMENTS
 7/19/12 COUNTY COMMENTS
 8/9/12 COUNTY COMMENTS
 8/9/12 COUNTY COMMENTS

SCALE: 1" = 80'-0"

DATE: February 24, 2012
 FILE No. 7403-12-001

SHEET **L0.01**



LANDSCAPE NOTES

1. THE PROPOSED LANDSCAPE WILL BE USED TO MEET THE MINIMUM TREE COVER REQUIREMENTS. LOCATIONS, SPECIES AND QUANTITIES MAY BE ADJUSTED WITH FINAL DESIGN.
2. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED AT SITE PLAN.
3. REFER TO SHEET L3.01 FOR PLANT SPECIES SCHEDULE

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.



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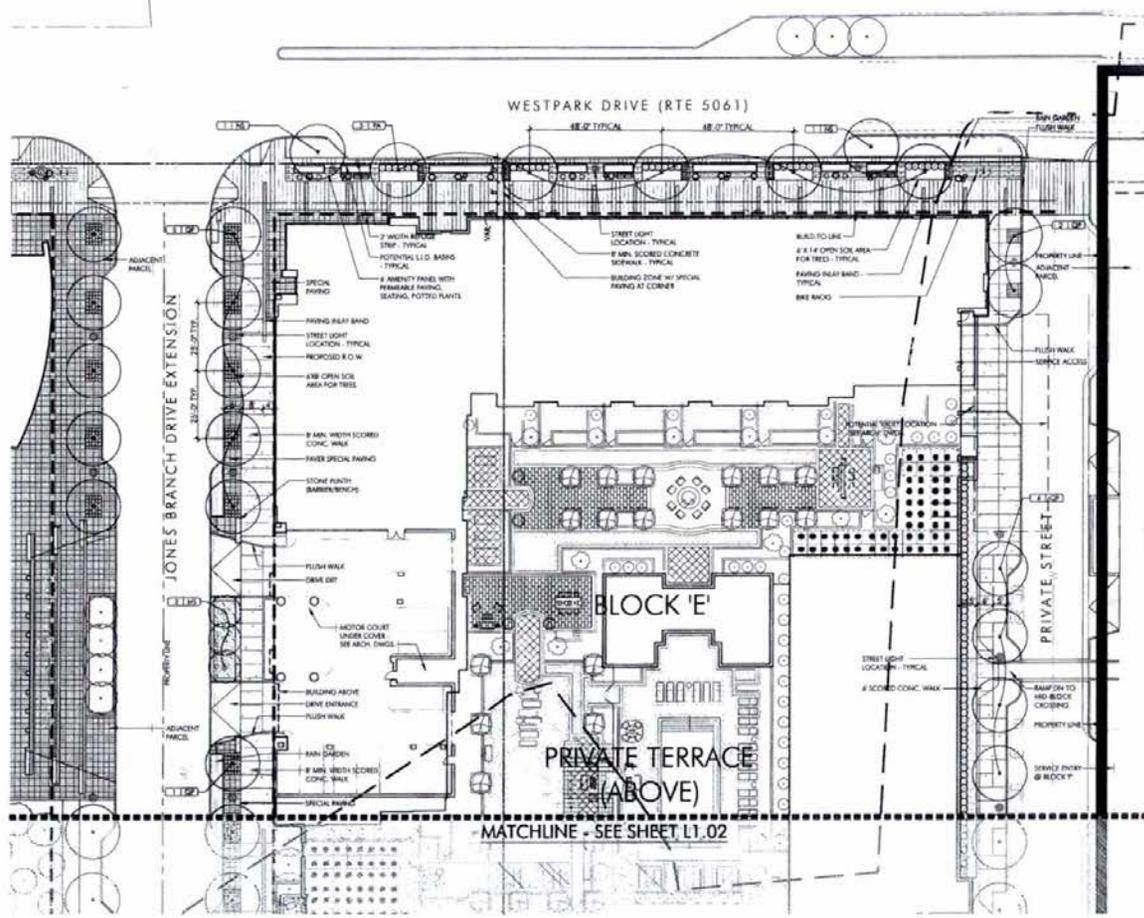
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REFERENCE LANDSCAPE PLAN
ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN 2011-PR-001-1
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	DATE	DESCRIPTION
10/2012	10/2012	COUNTY COMMENTS

DATE: February 24, 2012
JOB No.: 7493-12-001
FILE No.: 7493-12-001

SHEET **L0.02**



LANDSCAPE NOTES:

1. THE PROPOSED LANDSCAPE WILL BE USED TO MEET THE MINIMUM TREE COVER REQUIREMENTS. LOCATIONS, SPECIES AND QUANTITIES MAY BE ADJUSTED WITH FINAL DESIGN.
2. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED AT SITE PLAN.
3. ALL STREET LEVEL TREES ARE PLANTED ON GRADE UNLESS OTHERWISE NOTED.
4. REFER TO SHEET L3.01 FOR PLANT SPECIES SCHEDULE.
5. REFER TO SHEETS L5.01/2 FOR REPRESENTATIVE FURNISHINGS AND DESIGN DETAILS.
6. REFER TO L3.01/L3.02 FOR TYPICAL STREET TREE PLANTING DETAILS TO ACCOMMODATE 400-700 CUFT OF SOIL VOLUME.

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL ENGINEERING QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.



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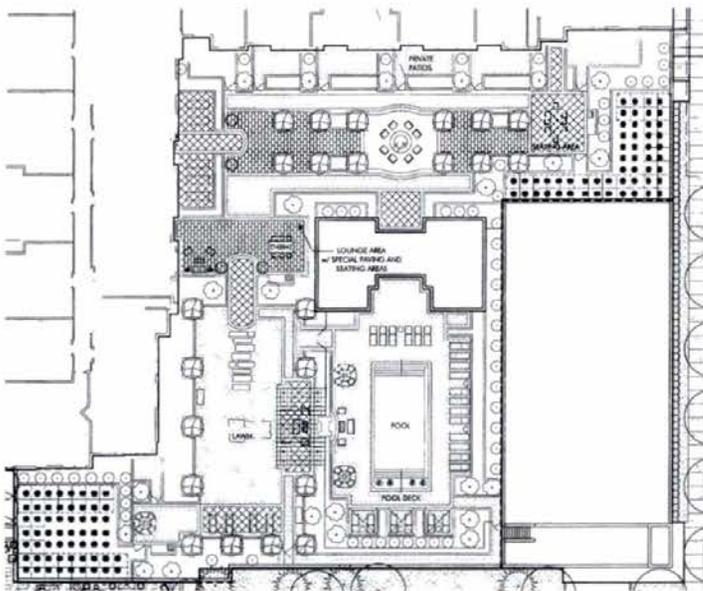
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LANDSCAPE PLAN - STREET LEVEL
ARBOR ROW - BLOCK 'E'
 FINAL DEVELOPMENT PLAN 2011-PR-023-1
 PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

PLAN STATUS	COUNTY COMMENTS
1999/3	COUNTY COMMENTS
1999/2	COUNTY COMMENTS
1999/1	COUNTY COMMENTS
1999/0	COUNTY COMMENTS

DATE	DESCRIPTION
02/24/12	02/24/12

JOB No. February 24, 2012
 FILE No. 7400-12-001
 SHEET **L1.01**



01 LANDSCAPE PLAN: PRIVATE ROOF TERRACE
SCALE: 1" = 20'-0"

LANDSCAPE NOTES

1. THE PROPOSED LANDSCAPE WILL BE USED TO MEET THE MINIMUM TREE COVER REQUIREMENTS. LOCATIONS, SPECIES AND QUANTITIES MAY BE ADJUSTED WITH FINAL DESIGN.
2. THE LANDSCAPE TREATMENT, DESIGN FEATURES, AND DETAILS MAY CHANGE WITH FINAL DESIGN PROVIDED THAT THE USE OF THE SPACE AND THE CHARACTER AND QUALITY OF THE FEATURES AND PLANTINGS REMAIN IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.
3. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED AT SITE PLAN.
4. REFER TO SHEET L3.01 FOR PLANT SPECIES SCHEDULE.

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.



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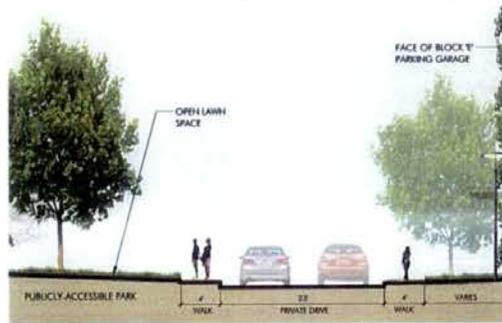
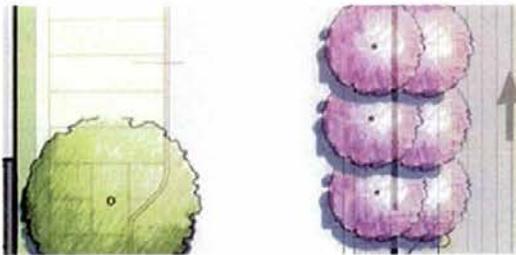
Cityline
PARTNERS
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LANDSCAPE PLAN - ROOF TERRACES
ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN (01-PR-023)
PROVIDENCE DISTRICT - FAYETTE COUNTY, VIRGINIA

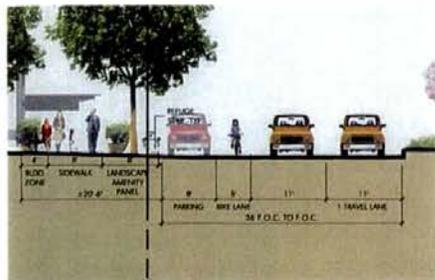
PLAN STATUS	
08/21/12	COUNTY COMMENTS
DATE	DESCRIPTION
JOB NO.	SCALE: 1" = 20'-0"
DATE: February 24, 2010	
FILE No. 7403-12-001	
SHEET	L1.03



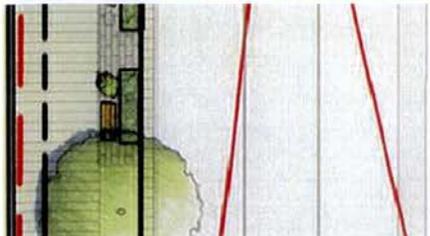
01 PRIVATE DRIVE - STREET SECTION
SCALE: 1/8" = 1'-0"



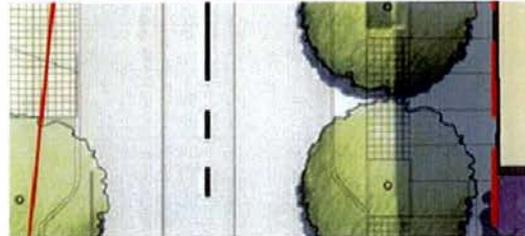
03 PRIVATE DRIVE (JONES BRANCH CONNECTION) - SECTION
SCALE: 1/8" = 1'-0"



02 WESTPARK DRIVE - STREET SECTION (AVENUE)
SCALE: 1/8" = 10'-0"



04 JONES BRANCH EXTENSION - STREET SECTION (LOCAL)
SCALE: 1/8" = 10'-0"



KEY PLAN

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

SITE SECTIONS PRESENTED ON THIS SHEET ARE PROVIDED TO AID IN THE UNDERSTANDING OF GRADE CHANGE ACROSS THE SUBJECT PROPERTY AND THE RELATIONSHIP OF PROPOSED BUILDINGS AND OTHER USES. BUILDING DESIGN AND THE FINAL GRADING ARE SUBJECT TO CHANGE WITH FINAL ENGINEERING AND ARCHITECTURAL DESIGN.



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www.hanovercompany.com

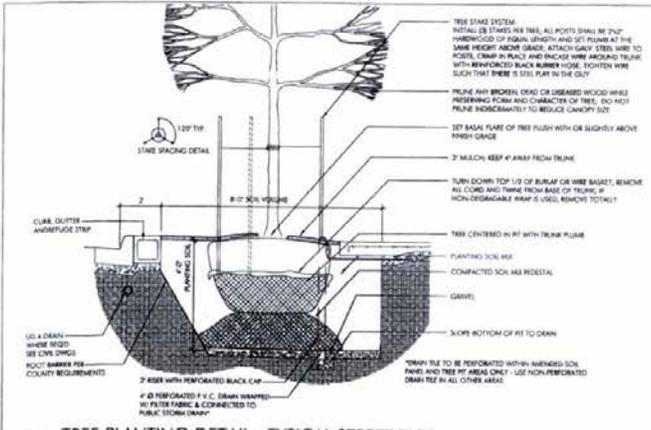
Cityline
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217 River Estate Corporate Park Drive
Charleston, Virginia 22802

ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN 2011-PR-023-1
PRINCEDRICE DISTRICT - FAIRFAX COUNTY, VIRGINIA

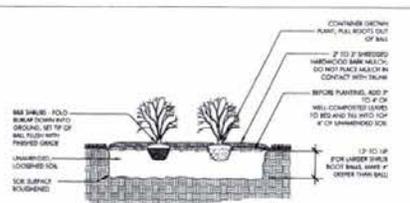
STREET SECTIONS

NO.	DATE	DESCRIPTION
1	1/24/12	ISSUED FOR PERMITS
2	2/24/12	REVISED
3	3/24/12	REVISED
4	4/24/12	REVISED
5	5/24/12	REVISED
6	6/24/12	REVISED
7	7/24/12	REVISED
8	8/24/12	REVISED
9	9/24/12	REVISED
10	10/24/12	REVISED
11	11/24/12	REVISED
12	12/24/12	REVISED

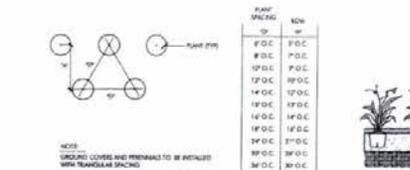
SHEET 12.02



01 TREE PLANTING DETAIL - TYPICAL STREET TREE
SCALE: 1/2"=1'-0"



04 SHRUB PLANTING DETAIL
SCALE: 1/2"=1'-0"



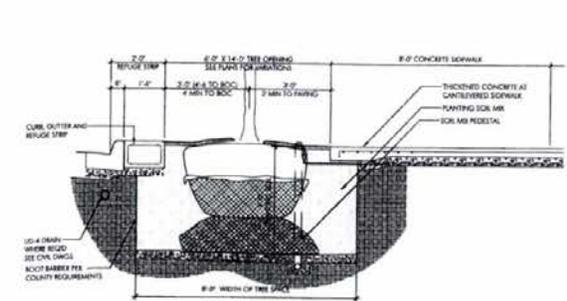
05 GROUNDCOVER / PERENNIAL PLANTING DETAIL
SCALE: 1/2"=1'-0"

LANDSCAPE NOTES:

1. THE PROPOSED LANDSCAPE WILL BE USED TO MEET THE MINIMUM TREE COVER REQUIREMENTS. LOCATIONS, SPECIES AND QUANTITIES MAY BE ADJUSTED WITH FINAL DESIGN.
2. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED AT SITE PLAN.
3. ALL STREET TREE TREES ARE PLANTED ON GRADE UNLESS OTHERWISE NOTED.

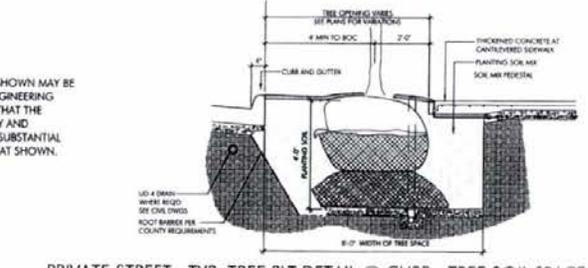
LANDSCAPE COMPUTATIONS - ARBOR ROW - BLOCK 'E'

13-011 INTERIOR PARKING LOT LANDSCAPE CALCULATIONS		6,800	340
Total Parking Area (sq ft)		6,800	
1% Percent Required		340	
Ratio to CDP 10-2011 PRG 023 C-6 Ratio			
13-002 PERIPHERAL PARKING LOT LANDSCAPE CALCULATIONS			
No Surface Parking Lots			
Peripheral Parking Lot Landscaping Not Required			
13-011 TRANSITIONAL SCREENING AND BARRIERS			
Priority zoning District: PTC			
Adjacent zoning Districts: 15, C-7, PDC, PFC-1C			
Transitional Screening and Barriers are Not Required			
13-011 TREE COVER CALCULATIONS			
Table 12.10 10 Year Tree Canopy Calculation Worksheet			
Year	Target	Actual	Reference
A. Tree Preservation Target and Statement			
Place the Tree Preservation target calculations and statement here preceding the 10 year tree canopy calculation.			
A1			
B. Tree Canopy Requirements			
B1	Identify gross site area	135,788	12-08-11 14
B2	Subtract area dedicated to parking, walkways, and	19,882	12-08-11 18
B3	Subtract area of excavation	0	12-08-11 12(1)
B4	Adjusted Gross Site Area (B1 - B2)	117,136	
B5	Identify street frontage and/or use	0	12-08-10 14(1)
B6	Percentage of 10-year Tree Canopy Required	10%	Table 12.4
B7	Area of 10 year Tree Canopy Requirements required*	11,714	
B8	Multiplication of 10-year tree canopy requirements required* if 0.8 or less, then the plan sheet where calculation request is targeted	0	10 Year or No
B9	Street number		
C. Tree Preservation			
C1	Tree Preservation Target Area	0	
C2	Total canopy area meeting standards of 12.08-11	0	
C3	C2 x 1.25	0	12-08-10 20
C4	Total canopy area provided by various or suitable trees or non-suitable trees	0	
C5	C4 x 1.5	0	12-08-10 20(1)
C6	Total of canopy area provided by "High-Quality," "Medium-Quality," or "Low-Quality" trees	0	
C7	C6 x 1.5 to 2.0	0	12-08-10 20(2)
C8	Canopy area of trees within Resource Protection Areas and 100' year Bufferzone	0	
C9	C8 x 1.0	0	
C10	Total of C3, C7 and C9	0	12-08-10 20(1)
D. Tree Planting			
D1	Area of canopy to be met through tree planting (B7-C10)	11,714	
D2	Area of canopy provided for air quality benefits	0	
D3	X 1.5	0	12-08-10 48(1)
D4	Area of canopy provided for water quality benefits	0	
D5	X 1.5	0	12-08-10 48(2)
D6	Area of canopy provided for wildlife benefits	0	
D7	X 1.25	0	12-08-10 48(3)
D8	Area of canopy provided for shade benefits	0	
D9	X 1.5	0	12-08-10 48(4)
D10	Area of canopy provided by native trees	0	
D11	X 1.5	0	12-08-10 48(5)
D12	Area of canopy provided by improved cultivars and varieties	0	
D13	X 1.25	0	12-08-10 48(6)
D14	Area of canopy provided through native shrubs + X 1.0	0	12-08-10 42(1)
D15	Must not exceed 32%		
D16	Percent of D14 represented by D 15	0	
D17	Total of canopy area provided through tree planting	0	
D18	Is an offset planting method required?	No Yes or No	
D19	Tree bank or Tree Fund?	0	12-08-12
D20	Amount to be deposited into the Tree Preservation and Planting Fund	0	
D21	Amount to be deposited into the Tree Preservation and Planting Fund	0	
E. Total of 10-year Tree Canopy Provided			
E1	Total of Canopy Provided through tree preservation (C10)	0	
E2	Total of canopy area provided through tree planting (D17)	0	12-08-12
E3	Total of canopy area provided through offset mechanisms (D19)	0	
Total of E1 through E3. Area shown offset or in excess is required by B7			
E4	Total of 10-year Tree Canopy Provided = (E1+E2+E3)	0	12-08-12



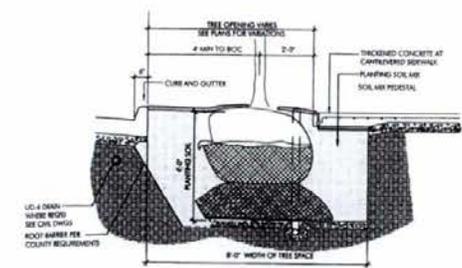
02 WESTPARK DRIVE - TYP. TREE PLT DETAIL @ REFUGE STRIP - TREE SOIL SPACE
SCALE: 1/2"=1'-0"

THE PLAN AND IMAGERY SHOWN MAY BE MODIFIED WITH FINAL ENGINEERING AND DESIGN, PROVIDED THAT THE GENERAL DESIGN QUALITY AND CHARACTERISTICS ARE IN SUBSTANTIAL CONFORMANCE WITH THAT SHOWN.

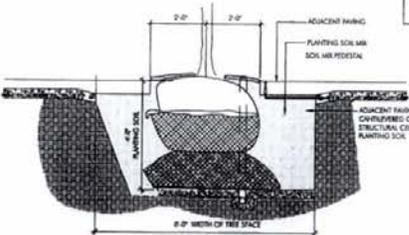


06 PRIVATE STREET - TYP. TREE PLT DETAIL @ CURB - TREE SOIL SPACE
SCALE: 1/2"=1'-0"

ARBOR ROW OVERALL CDP - CANOPY COVERAGE	
TOTAL 10-YEAR TREE CANOPY REQ'D	83,798 sq ft
TOTAL 10-YEAR TREE CANOPY PROVIDED	83,876 sq ft
ARBOR ROW BLOCK 'E' & 'A' - CONTRIBUTION TO CANOPY COVERAGE	
BLOCK 'E' 10-YEAR TREE CANOPY PROVIDED	15,800 sq ft
BLOCK 'E' 10-YEAR TREE CANOPY PREVIOUSLY PROVIDED	41,880 sq ft
SUBTOTAL	57,680 sq ft
ARBOR ROW BLOCK 'B', 'C', 'D' - CONTRIBUTION TO CANOPY COVERAGE	
BLOCK 'B', 'C', 'D' 10-YEAR TREE CANOPY TO BE PROVIDED	26,197 sq ft



03 JONES BRANCH DRIVE - TYP. TREE PLT DETAIL @ CURB
SCALE: 1/2"=1'-0"



07 TYP. TREE PLT DETAIL @ PLAZA - TREE SOIL SPACE
SCALE: 1/2"=1'-0"

ARBOR ROW BLOCK 'E' (MANOVER SITE) - PLANTING LIST & CANOPY COVERAGE							
KEY	BOTANICAL NAME	COMMON NAME	QTY	STOCK SIZE	STOCK TYPE	10-YR TREE CANOPY FT ²	TREE CANOPY REMARKS
Category 1: Deciduous Trees							
C1	Colony Red Maple	Colony Red Maple	9	2" cal	BA8	75	0 single leader
Category 2: Deciduous Trees							
A0	Ash	Ash	5	2" cal	BA8	100	500
A1	American Elm	Alphara Secondary	13	2" cal	BA8	100	1,300
A2	Hopbush	Sea Magnolia	8	2" cal	BA8	100	800
Category 3: Deciduous Trees							
A3	Hopbush	Sea Magnolia	3	2" cal	BA8	175	300
Category 4: Deciduous Trees							
A4	Ash	Ash	8	2" cal	BA8	250	2,250
A5	Platanus	Swamp White Birch	3	2" cal	BA8	250	1,200
A6	Quercus	Red Oak	15	2" cal	BA8	250	2,250
A7	Quercus	Red Oak	20	2" cal	BA8	250	5,000
A8	Quercus	Red Oak	4	2" cal	BA8	250	1,500
Category 5: Evergreen Trees							
A9	Red Cedar	Red Cedar	7	2" cal	BA8	50	300
TOTAL 10-YEAR TREE CANOPY PROVIDED BY PLANTING: 15,800							

Note: Plant species are provided to indicate a general idea of tree size. Final species selection may vary from this list but will meet tree canopy goals.

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PLANTING DETAILS AND SCHEDULE
ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN 2011-PRG-2-1
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

DATE: February 14, 2012
SCALE: HAS NOTED
JOB No: 7403-12-001
DATE: February 14, 2012
FILE No: 7403-12-001

SHEET: L3.01

FURNITURE - TABLES AND CHAIRS



OPT 1
MAKE: THOMAS-STEEL
MODEL: U-POD
SIZE: D-30" H-30"



OPT 2
MAKE: FORBIS + SURFACES
MODEL: WAVE TABLE
SIZE: D-36" H-28"

BIKE RACKS



OPT 1
MAKE: LANDSCAPE FORMS
MODEL: RING
SIZE: 1-3" x 25" x 27"



OPT 2
MAKE: LANDSCAPE FORMS
MODEL: KEY
SIZE: 9" x 23" x 32"

BENCHES



OPT 1
MAKE: LANDSCAPE FORMS
MODEL: NEOCOMBO
ALUMINUM
SIZE: 27" x 31" x 39"
*SINGLE SEAT TO MATCH BENCH



OPT 2
MAKE: LANDSCAPE FORMS
MODEL: NEOCOMBO
ALUMINUM AND HARDWOOD
SIZE: 27" x 31" x 48"
*SINGLE SEAT TO MATCH BENCH



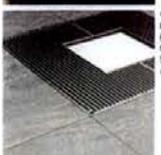
OPT 3
MAKE: LANDSCAPE FORMS
MODEL: REST
SIZE: 26 1/2" x 33 1/2" x 60"

OPT 4
MAKE: LANDSCAPE FORMS
MODEL: NJ
STEEL & HARDWOOD
SIZE: 8' 0" Length

METAL TREE GRATE

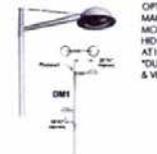


OPT 1
MAKE: IRONSMT
MODEL: MARKET STREET
SIZE: 60"



OPT 2
MAKE: HEB
MODEL: S304 TREE GRATE
SIZE: 1050mm x 1050mm x 35mm

STREET LIGHTS - PER TYSON'S URBAN DESIGN GUIDELINES



OPT 1
MAKE: SELLIX
MODEL: ARC / ARC MINI
HID OR LED
AT 104 POLE WITH AT335 BASE COVER
*DUAL ARMS MOUNTED AT PEDESTRIAN & VEHICULAR HEIGHTS



OPT 2
MAKE: ARCHITECTURAL AREA LIGHTING
MODEL: FLEX
HID MODEL: FH3-400SPM-11A-1750-B
LED MODEL: FH-73-PR1D-BW-11A-1834
*DUAL ARMS MOUNTED AT PEDESTRIAN & VEHICULAR HEIGHTS

PLANTERS



TBD BY TENANT

TBD BY TENANT

TBD BY TENANT

TRASH RECEPTACLES



OPT 1
MAKE: VICTOR STANLEY, INC
MODEL: 30C-24
SIZE: 24-gallon



OPT 2
MAKE: LANDSCAPE FORMS
MODEL: LANDSCAPE - GRASS
SIZE: 24-gallon

L.I.D. BASINS



VEHICULAR BOLLARDS



OPT 2 (RIGHT)
MAKE: BRCA
MODEL: STAINLESS BOLLARD WITH LOUVER
SIZE: 41 1/2"

OPT 1 (LEFT)
MAKE: FORBIS AND SURFACES
MODEL: LIGHT COLUMN BOLLARD
LBCO-604
SCREEN: KENTE OR SCAPE
SIZE: 48"

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Cityline PARTNERS
A subsidiary of
Cityline Capital Partners

STREETSCAPE ELEMENTS
ARBOR ROW - BLOCK 'E'
FINAL DEVELOPMENT PLAN 2011-PR-023-1
PROVIDENCE DISTRICT - FAIRFAX COUNTY, VIRGINIA

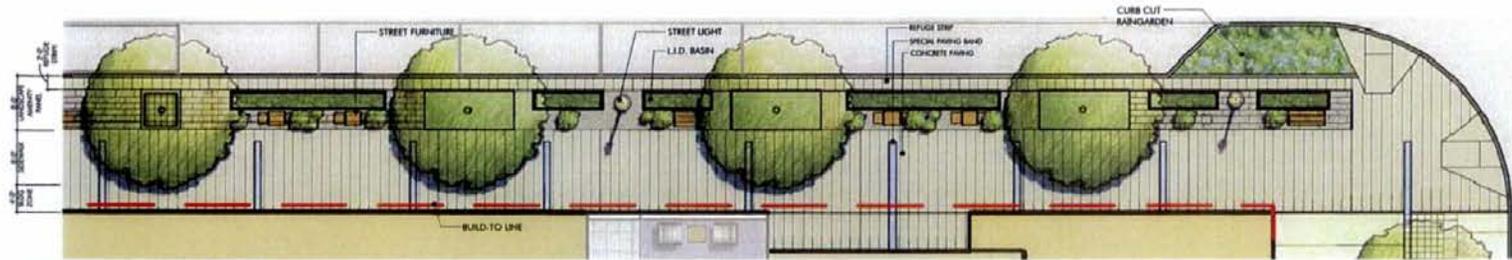
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02 SITE FURNISHING EXHIBITS

SCALE: NTS

01 WESTPARK DRIVE - ENLARGED PLAN, TYPICAL

SCALE: 1/8" = 1'-0"



SHEET **L5.01**

