ARCHITECTURAL REVIEW BOARD STAFF REPORT

<table>
<thead>
<tr>
<th>Project #/Name</th>
<th>ARB-2020-35: W4 Development Car Wash</th>
</tr>
</thead>
<tbody>
<tr>
<td>Review Type</td>
<td>Review of a Final Site Plan and architectural design</td>
</tr>
<tr>
<td>Parcel Identification</td>
<td>045000000093C0</td>
</tr>
<tr>
<td>Location</td>
<td>2100 Rio Hill Center, at the southwest corner of Route 29 and Woodbrook Drive, (see Figure 1) south of Chick-fil-A and across Route 29 from Kohr Brothers.</td>
</tr>
<tr>
<td>Zoned</td>
<td>Planned Development Shopping Center (PDSC), Entrance Corridor (EC)</td>
</tr>
<tr>
<td>Owner/Applicant</td>
<td>Allen &amp; Allen Properties - Charlottesville LLC/WCWV, LLC (Greg DeBacker)</td>
</tr>
<tr>
<td>Magisterial District</td>
<td>Rio</td>
</tr>
<tr>
<td>Proposal</td>
<td>To construct a 3,739 sf car wash building and associated site improvements on approximately 1.05 acres.</td>
</tr>
<tr>
<td>Context</td>
<td>This portion of Route 29 is commercial in nature, with strip shopping centers, big box stores, the Rio Hill Shopping Center, and stand-alone fast food restaurants nearby. Most of the commercial buildings in the vicinity are one story tall.</td>
</tr>
<tr>
<td>Visibility</td>
<td>Three sides of the building and site will be clearly visible from the EC (Route 29). The proposed building is 25’ from the right-of-way and approximately 43’ from the Route 29 edge of pavement.</td>
</tr>
<tr>
<td>ARB Meeting Date</td>
<td>November 2, 2020</td>
</tr>
<tr>
<td>Staff Contact</td>
<td>Margaret Maliszewski</td>
</tr>
</tbody>
</table>

PROJECT HISTORY

<table>
<thead>
<tr>
<th>DATE</th>
<th>APPLICATION/REVIEW TYPE</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/16/2020</td>
<td>ARB-2020-35: W4 Car Wash Final Site Plan</td>
<td>The submittal originally received on March 9, 2020 was made complete on September 16, 2020 and was then scheduled for ARB review on November 2, 2020.</td>
</tr>
<tr>
<td>REF</td>
<td>GUIDELINE</td>
<td>RECOMMENDATIONS FROM 10/21/19 ARB MEETING</td>
</tr>
<tr>
<td>-----</td>
<td>-----------</td>
<td>-----------------------------------------</td>
</tr>
<tr>
<td>1</td>
<td>Purpose</td>
<td>Ensure that the site plan building footprint, renderings, and building elevations show the same design and details, including the depth of the bays. Provide material and color samples for all materials. Include material and color information for all materials and building components on the architectural elevation sheets (01-A1 and 01-A2).</td>
</tr>
<tr>
<td>2</td>
<td>Visitors to the significant historical sites in the Charlottesville and Albemarle area experience these sites as ensembles of buildings, land, and vegetation. In order to accomplish the integration of buildings, land, and vegetation characteristic of these sites, the Guidelines require attention to four primary factors: compatibility with significant historic sites in the area; the character of the Entrance Corridor; site development and layout; and landscaping.</td>
<td>Indicate on the drawings the material and color for the overhead door on the north side (exit) of the tunnel. Provide material and color samples for the canopies, vacuum equipment, and auto sentry and gate equipment.</td>
</tr>
<tr>
<td>3</td>
<td>New structures and substantial additions to existing structures should respect the traditions of the architecture of historically significant buildings in the Charlottesville and Albemarle area. Photographs of historic buildings in the area, as well as drawings of architectural features, which provide important examples of this tradition are contained in Appendix A.</td>
<td>Clearly specify if the large window area on the south end of the front of the building is an overhead door or a window. If it is an overhead door, then clearly specify the material and color.</td>
</tr>
</tbody>
</table>

Purpose

The goal of the regulation of the design of development within the designated Entrance Corridors is to insure that new development within the corridors reflects the traditional architecture of the area. Therefore, it is the purpose of ARB review and of these Guidelines, that proposed development within the designated Entrance Corridors reflect elements of design characteristic of the significant historical landmarks, buildings, and structures of the Charlottesville and Albemarle area, and to promote orderly and attractive development within these corridors. Applicants should note that replication of historic structures is neither required nor desired.

Visitors to the significant historical sites in the Charlottesville and Albemarle area experience these sites as ensembles of buildings, land, and vegetation. In order to accomplish the integration of buildings, land, and vegetation characteristic of these sites, the Guidelines require attention to four primary factors: compatibility with significant historic sites in the area; the character of the Entrance Corridor; site development and layout; and landscaping.

New structures and substantial additions to existing structures should respect the traditions of the architecture of historically significant buildings in the Charlottesville and Albemarle area. Photographs of historic buildings in the area, as well as drawings of architectural features, which provide important examples of this tradition are contained in Appendix A.
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>The examples contained in Appendix A should be used as a guide for building design: the standard of compatibility with the area’s historic structures is not intended to impose a rigid design solution for new development. Replication of the design of the important historic sites in the area is neither intended nor desired. The Guideline’s standard of compatibility can be met through building scale, materials, and forms which may be embodied in architecture which is contemporary as well as traditional. The Guidelines allow individuality in design to accommodate varying tastes as well as special functional requirements.</td>
</tr>
<tr>
<td></td>
<td>is an overhead door, it is preferred that it be glazed.</td>
</tr>
<tr>
<td></td>
<td>north tower has no detail to break up the wall area between the stringcourses, and this results in a top-heavy appearance.</td>
</tr>
<tr>
<td>9</td>
<td>Building forms and features, including roofs, windows, doors, materials, colors and textures should be compatible with the forms and features of the significant historic buildings in the area, exemplified by (but not limited to) the buildings described in Appendix A [of the design guidelines]. The standard of compatibility can be met through scale, materials, and forms which may be embodied in architecture which is contemporary as well as traditional. The replication of important historic sites in Albemarle County is not the objective of these guidelines.</td>
</tr>
<tr>
<td></td>
<td>It is also an important objective of the Guidelines to establish a pattern of compatible architectural characteristics throughout the Entrance Corridor in order to achieve unity and coherence. Building designs should demonstrate sensitivity to other nearby structures within the Entrance Corridor. Where a designated corridor is substantially developed, these Guidelines require striking a careful balance between harmonizing new development with the existing character of the corridor and achieving compatibility with the significant historic sites in the area.</td>
</tr>
<tr>
<td></td>
<td>Consider balancing the heights of the towers.</td>
</tr>
<tr>
<td>5</td>
<td>None.</td>
</tr>
<tr>
<td>10</td>
<td>Buildings should relate to their site and the surrounding context of buildings.</td>
</tr>
<tr>
<td>11</td>
<td>The overall design of buildings should have human scale. Scale should be integral to the building and site design.</td>
</tr>
<tr>
<td></td>
<td>The overall height of the taller tower has been reduced from 32’ to 28’ and the other two towers are now equal in height at 22’. Although a taller tower is appropriate to mark the entrance and establish hierarchy, the upper</td>
</tr>
<tr>
<td>12</td>
<td>Architecture proposed within the Entrance Corridor should use forms, shapes, scale, and materials to create a cohesive whole.</td>
</tr>
<tr>
<td>14</td>
<td>Arcades, colonnades, or other architectural connecting devices should be used to unify groups of buildings within a development.</td>
</tr>
<tr>
<td>13</td>
<td>Any appearance of “blankness” resulting from building design should be relieved using design detail or vegetation, or both.</td>
</tr>
<tr>
<td>15</td>
<td>Trademark buildings and related features should be modified to meet the requirements of the Guidelines.</td>
</tr>
<tr>
<td>16</td>
<td>Window glass in the Entrance Corridors should not be highly tinted or highly reflective. Window glass in the Entrance Corridors should meet the following criteria: Visible light</td>
</tr>
<tr>
<td><strong>transmittance (VLT)</strong> shall not drop below 40%. Visible light reflectance (VLR) shall not exceed 30%. Specifications on the proposed window glass should be submitted with the application for final review.</td>
<td>Add the standard window glass note to the drawings with the next submission.</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>Accessory structures and equipment</strong></td>
<td><strong>17</strong> Accessory structures and equipment should be integrated into the overall plan of development and shall, to the extent possible, be compatible with the building designs used on the site.</td>
</tr>
<tr>
<td><strong>Accessory structures and equipment</strong></td>
<td><strong>18</strong> The following should be located to eliminate visibility from the Entrance Corridor street. If, after appropriate siting, these features will still have a negative visual impact on the Entrance Corridor street, screening should be provided to eliminate visibility. a. Loading areas, b. Service areas, c. Refuse areas, d. Storage areas, e. Mechanical equipment, f. Above-ground utilities, and g. Chain link fence, barbed wire, razor wire, and similar security fencing devices.</td>
</tr>
<tr>
<td><strong>Accessory structures and equipment</strong></td>
<td><strong>19</strong> Screening devices should be compatible with the design of the buildings and surrounding natural vegetation and may consist of: a. Walls, b. Plantings, and c. Fencing.</td>
</tr>
</tbody>
</table>


locations, and show the equipment locations and heights on the elevation drawings. A dumpster screen detail has been provided. The materials are coordinated with the building materials. The dumpster location appears coordinated throughout the drawings. The submittal clarifies that all car wash building-related equipment is contained in the building. As illustrated in the “Equipment Sales” photos, the signage associated with the pay stations is not expected to have a significant impact on the EC street. No signs are illustrated with the vac stations.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>The following note should be added to the site plan and the architectural plan: “Visibility of all mechanical equipment from the Entrance Corridor shall be eliminated.” Add the standard mechanical equipment visibility note to the drawings with the next submission. The mechanical equipment note has been added to the site and architectural drawings. None.</td>
</tr>
<tr>
<td><strong>Lighting</strong></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Light should be contained on the site and not spill over onto adjacent properties or streets; Provide a complete lighting plan for review. Include all building- and ground-mounted lights in the lighting plan. Include specifications and manufacturer’s cut-sheets for all proposed light fixtures. A photometric plan has been provided for the site pole lights. It shows no excessive spillover. Revise the photometric plan to include the wall fixtures.</td>
</tr>
<tr>
<td>23</td>
<td>Light should be shielded, recessed or flush-mounted to eliminate glare. All fixtures with lamps emitting 3000 lumens or more must be full cutoff fixtures. Cut sheets have been submitted separate from the lighting plan. Cut sheets must be included in the site plan set. Limit wall-mounted lighting to that which is needed for safety/security. Eliminate the fixtures above the awnings on the east elevation. Revise the photometric plan to include the locations of all wall-mounted fixtures and all canopy fixtures, and the illumination from those fixtures. Limit illumination at the ground to 20 fc maximum. Include the cut sheets in</td>
</tr>
<tr>
<td>24</td>
<td>Light levels exceeding 30 footcandles are not appropriate for display lots in the Entrance Corridors. Lower light levels will apply to most other uses in the Entrance Corridors. Remove the light fixtures shown above the three awnings in the middle bay of the EC elevation. The lighting plan does not include the wall fixtures or canopy fixtures, so the photometrics are not complete. The color rendering shows the warehouse shade fixture above awnings on the EC side of the building. Illumination of this type has typically been considered inappropriate for the ECs. The ARB has typically limited building-mounted lights to those needed for safety and security. The lighting plan indicates the light loss factor is 1.0.</td>
</tr>
<tr>
<td>25</td>
<td>Light should have the appearance of white light with a warm soft glow; however, a consistent appearance throughout a site or development is required. Consequently, if existing lamps that emit non-white light are to remain, new lamps may be required to match them.</td>
</tr>
<tr>
<td>26</td>
<td>Dark brown, dark bronze, or black are appropriate colors for free-standing pole mounted light fixtures in the Entrance Corridors.</td>
</tr>
<tr>
<td>27</td>
<td>The height and scale of freestanding, pole-mounted light fixtures should be compatible with the height and scale of the buildings and the sites they are illuminating, and with the use of the site. Typically, the height of freestanding pole-mounted light fixtures in the Entrance Corridors should not exceed 20 feet, including the base. Fixtures that exceed 20 feet in height will typically require additional screening to achieve an appropriate appearance from the Entrance Corridor. Notes in the lighting schedule indicate: “20 ft. pole height w/ 3 ft. estimated concrete base”. The lighting plan notes a 23’ height.</td>
</tr>
<tr>
<td>28</td>
<td>In determining the appropriateness of lighting fixtures for the Entrance Corridors, the individual context of the site will be taken into consideration on a case by case basis. Eliminate the under-mounted LED lights contained in the vacuum equipment. Provide drawings that confirm the lack of illumination.</td>
</tr>
<tr>
<td>29</td>
<td>The following note should be included on the lighting plan: “Each outdoor luminaire equipped with a lamp that emits 3,000 or more initial lumens shall be a full cutoff luminaire and shall be arranged or shielded to reflect light away from adjoining residential districts and away from adjacent roads. The spillover of lighting from luminaires onto public roads and property in residential or rural areas zoning districts shall not exceed one half footcandle.” Include the standard lighting note on the lighting plan. The note has been added to the lighting plan. None.</td>
</tr>
<tr>
<td>30-31</td>
<td><strong>Guidelines for the Use of Decorative Landscape Lighting</strong> None.</td>
</tr>
<tr>
<td><strong>Landscaping</strong></td>
<td>None.</td>
</tr>
</tbody>
</table>
The requirements of the Guidelines regarding landscaping are intended to reflect the landscaping characteristic of many of the area’s significant historic sites which is characterized by large shade trees and lawns. Landscaping should promote visual order within the Entrance Corridor and help to integrate buildings into the existing environment of the corridor. 

Provide the required large shade trees along the EC. Locate these to be outside of the power easement.

Revise the plant schedule so that the shade trees along the EC are 3½” caliper at time of planting.

Provide flowering ornamental trees interspersed among the required large shade trees.

Small trees (Aeryn Trident Maple), instead of large trees, are still proposed along the EC frontage. Ornamentals (Crape Myrtle) have been added. Most of the trees are directly under the overhead lines. (No easement is shown along the overhead lines.) Planting area has not been increased to eliminate utility conflicts. Some trees are very close to an underground gas line. The power lines have a low clearance (see Figure 4) and are approximately 13 feet from the EC. There may be opportunities to shift some of the trees away from some of the lines, but additional utilities exist in the area. The trees that are proposed along the EC frontage are spaced closer together than 35’, but no trees are proposed at the northeast corner of the parcel. There are easements and utilities in this area, but there may be room for one or two carefully located trees.

Continuity within the Entrance Corridor should be obtained by planting different types of plant materials that share similar characteristics. Such common elements allow for more flexibility in the design of structures because common landscape features will help to harmonize the appearance of development as seen from the street upon which the Corridor is centered.

Shift trees to avoid utility conflicts.

Provide a complete landscape schedule on the landscape plan.

Add trees to the northeast corner of the site where utility conflicts don’t exist.

Remove the note from the landscape plan that reads, “Small to medium trees can be substituted for large trees if overhead utilities are present. See VDOT road design manual appendix B(1)-47.”

Provide a copy of ACSA’s approval of the landscape plan.

Provide trees 2 ½” caliper at planting, 40’ on center along Woodbrook Drive, clear of utilities and easements.

Landscaping along the frontage of Entrance Corridor streets should include the following:

- Large shade trees should be planted parallel to the Entrance Corridor Street. Such trees should be at least 3½ inches caliper (measured 6 inches above the ground) and should be of a plant species common to the area. Such trees should be located at least every 35 feet on center.
- Flowering ornamental trees of a species common to the area should be interspersed among the trees required by the preceding paragraph. The ornamental trees need not alternate one for one with the large shade trees. They may be planted among the large shade trees in a less regular spacing pattern.
- In situations where appropriate, a three or four board fence or low stone wall, typical of the area, should align the frontage of the Entrance Corridor street.
- An area of sufficient width to accommodate the foregoing plantings and fencing should be reserved parallel to the Entrance Corridor street, and exclusive of road right-of-way and utility easements.

Landscaping along interior roads:

- Large trees should be planted parallel to all interior roads. Such trees should be at least 2½ inches caliper (measured at planting so that the street trees proposed for Woodbrook Drive are 2 ½”.)

Revise the plant schedule so that the street trees proposed for Woodbrook Drive are 2 ½”.

Four trees are proposed along Woodbrook Drive. They are spaced 35’ apart, but the row begins approximately 120’ from the EC street, and the trees range from approximately 3½” to 40’ on center along Woodbrook Drive.

47. Provide a complete landscape schedule on the landscape plan.

Add trees to the northeast corner of the site where utility conflicts don’t exist.

Remove the note from the landscape plan that reads, “Small to medium trees can be substituted for large trees if overhead utilities are present. See VDOT road design manual appendix B(1)-47.”

Provide a copy of ACSA’s approval of the landscape plan.

Provide trees 2 ½” caliper at planting, 40’ on center along Woodbrook Drive, clear of utilities and easements.
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>six inches above the ground) and should be of a plant species common to the area. Such trees should be located at least every 40 feet on center.</td>
<td>caliper at time of planting.</td>
<td>1’ to 6’ from a water line.</td>
</tr>
<tr>
<td>34</td>
<td>Landscaping along interior pedestrian ways:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. Medium trees should be planted parallel to all interior pedestrian ways. Such trees should be at least 2½ inches caliper (measured six inches above the ground) and should be of a species common to the area. Such trees should be located at least every 25 feet on center.</td>
<td>Add one more medium or large shade tree 2½ caliper at planting to the planting area adjacent to the sidewalk on the west side of the building, near the southern entrance.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Note that two versions of the landscape plan with the same revision date of 6/22/20 show different planting along the carwash exit travelway. The version with significant planting in this area should move forward with future reviews.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Landscaping of parking areas:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. Large trees should align the perimeter of parking areas, located 40 feet on center. Trees should be planted in the interior of parking areas at the rate of one tree for every 10 parking spaces provided and should be evenly distributed throughout the interior of the parking area.</td>
<td>Provide at least four large trees along the west, and one more large tree along the north, perimeters of the parking area. These trees must be at least 2 ½” caliper at time of planting.</td>
</tr>
<tr>
<td></td>
<td>b. Trees required by the preceding paragraph should measure 2½ inches caliper (measured six inches above the ground); should be evenly spaced; and should be of a species common to the area. Such trees should be planted in planters or medians sufficiently large to maintain the health of the tree and shall be protected by curbing.</td>
<td>Provide screening for the vacuum stations, the auto sentry and gate, and all associated equipment.</td>
</tr>
<tr>
<td></td>
<td>c. Shrub should be provided as necessary to minimize the parking area’s impact on Entrance Corridor streets. Shrub should measure 24 inches in height.</td>
<td>Provide screening shrubs along the southern and northern borders of the property and along portions of the EC frontage that are not screened by the building. The screening shrubs must be of a species, spacing, and height that will provide the screening of all mechanical equipment at the time of planting. (See #17-19)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Consider shifting the travel lane to the south to create additional planting area for screening in the planting island.

Provide large shade trees, 2½” caliper at planting, in the planting island between the entrance drive aisle and the parking spaces to help screen the vacuum equipment.

Revise the planting height for the Inkberry and Yaupon Hollies to be at least a minimum of 24”.

If screening of mechanical equipment is provided elsewhere then provide screening shrubs to the south, along the stormwater management basin, at a minimum planting height of 24” to minimize the impact of the stacking area.

| 36 | Landscaping of buildings and other structures:  
|    | a. Trees or other vegetation should be planted along the front of long buildings as necessary to soften the appearance of exterior walls. The spacing, size, and type of such trees or vegetation should be determined by the length, height, and blankness of such walls.  
|    | b. Shrubs should be used to integrate the site, buildings, and other structures; dumpsters, accessory buildings and structures; “drive thru” windows; service areas; and signs. Shrubs should measure at least 24 inches in height.  
|    | Provide shrubs or other vegetation along the front of the building.  
|    | See #35.  
|    | A variety of shrubs has been provided along the EC front of the building. The shrubs extend to meet those proposed along the north and south perimeters of the site.  
|    | None.  

| 37 | Plant species:  
|    | a. Plant species required should be as approved by the Staff based upon but not limited to the Generic Landscape Plan Recommended Species List and Native Plants for Virginia Landscapes (Appendix D).  
|    | See #35.  
|    | The plants are on the various lists.  
|    | None.  

None.
<table>
<thead>
<tr>
<th>38</th>
<th>Plant health: The following note should be added to the landscape plan: “All site plantings of trees and shrubs shall be allowed to reach, and be maintained at, mature height; the topping of trees is prohibited. Shrubs and trees shall be pruned minimally and only to support the overall health of the plant.”</th>
<th>Add the standard plant health note to the landscape plan.</th>
<th>The note is on the landscape plan.</th>
<th>None.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Development pattern</strong></td>
<td><strong>Development pattern</strong></td>
<td><strong>Development pattern</strong></td>
<td><strong>Development pattern</strong></td>
<td><strong>Development pattern</strong></td>
</tr>
<tr>
<td>6</td>
<td>Site development should be sensitive to the existing natural landscape and should contribute to the creation of an organized development plan. This may be accomplished, to the extent practical, by preserving the trees and rolling terrain typical of the area; planting new trees along streets and pedestrian ways and choosing species that reflect native forest elements; insuring that any grading will blend into the surrounding topography thereby creating a continuous landscape; preserving, to the extent practical, existing significant river and stream valleys which may be located on the site and integrating these features into the design of surrounding development; and limiting the building mass and height to a scale that does not overpower the natural settings of the site, or the Entrance Corridor.</td>
<td>Consider moving the building further away from the EC, while maintaining parking and equipment behind the building (as viewed from EC). Provide a pedestrian connection between the internal sidewalk and the sidewalk along the edge of the EC.</td>
<td>The site has already been developed. The building location has not changed. A crosswalk is shown connecting the sidewalk at the building to the sidewalk on Woodbrook.</td>
<td>None.</td>
</tr>
<tr>
<td>39</td>
<td>The relationship of buildings and other structures to the Entrance Corridor street and to other development within the corridor should be as follows: a. An organized pattern of roads, service lanes, bike paths, and pedestrian walks should guide the layout of the site. b. In general, buildings fronting the Entrance Corridor street should be parallel to the street. Building groupings should be arranged to parallel the Entrance Corridor street. c. Provisions should be made for connections to adjacent pedestrian and vehicular circulation systems. d. Open spaces should be tied into surrounding areas to provide continuity within the Entrance Corridor. e. If significant natural features exist on the site (including creek valleys, steep slopes, significant trees or rock outcroppings), to the extent practical, then such natural features should be reflected in the site layout. If the provisions of Section 32.5.2.n of the Albemarle County</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zoning Ordinance</td>
<td>apply, then improvements required by that section should be located so as to maximize the use of existing features in screening such improvements from Entrance Corridor streets. f. The placement of structures on the site should respect existing views and vistas on and around the site.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site Grading</td>
<td>Site grading should maintain the basic relationship of the site to surrounding conditions by limiting the use of retaining walls and by shaping the terrain through the use of smooth, rounded land forms that blend with the existing terrain. Steep cut or fill sections are generally unacceptable. Proposed contours on the grading plan shall be rounded with a ten foot minimum radius where they meet the adjacent condition. Final grading should achieve a natural, rather than engineered, appearance. Retaining walls 6 feet in height and taller, when necessary, shall be terraced and planted to blend with the landscape.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Provide a label specifying the maximum height of the proposed retaining wall.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Revise the proposed contours such that they appear natural, rounded and do not have less than a ten-foot radius throughout the site and where they blend with the existing topography.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wall heights do not exceed 3’. The grading along the western half of the northern side of the site is generally not rounded.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Round proposed contours with a ten-foot minimum radius where they meet the adjacent condition.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>No grading, trenching, or tunneling should occur within the drip line of any trees or other existing features designated for preservation in the final Certificate of Appropriateness. Adequate tree protection fencing should be shown on, and coordinated throughout, the grading, landscaping and erosion and sediment control plans.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Provide the conservation checklist in the site plan.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Provide a tree protection fencing detail in the site plan.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>No existing trees are proposed to remain.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>None.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Areas designated for preservation in the final Certificate of Appropriateness should be clearly delineated and protected on the site prior to any grading activity on the site. This protection should remain in place until completion of the development of the site.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Show the tree protection fencing in the Grading and Draining Plan sheet.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>None.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Preservation areas should be protected from storage or movement of heavy equipment within this area.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>None.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The site was previously developed. No new above-ground stormwater facilities are proposed.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>None.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Natural drainage patterns (or to the extent required, new drainage patterns) should be incorporated into the finished site to the extent possible.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signs</td>
<td>Sign applications are required for all proposed signs. Eliminate cabinet style signs or limit them to secondary signs. All cabinet type signs must have opaque backgrounds. Reduce the number of colors used in the sign to be no more than three (including white). Eliminate overly intense colors from the sign proposal.</td>
<td>Signage is reviewed and approved by separate submission. However, the following preliminary comments are provided. Wall sign design has changed since the last review. Wall sign type is still illustrated as cabinet signs, but colors have been changed to black and white. Cabinet signs are not the preferred sign type in the ECs. If illuminated, the background portion of cabinet style signs must be opaque.</td>
<td>Signage is reviewed and approved by separate submission. However, the following preliminary comments are provided: Wall sign design has changed since the last review. Wall sign type is still illustrated as cabinet signs, but colors have been changed to black and white. Cabinet signs are not the preferred sign type in the ECs. If illuminated, the background portion of cabinet style signs must be opaque.</td>
<td></td>
</tr>
</tbody>
</table>

**ATTACHMENTS**

A - W4 Car Wash site and architectural plans (See below)
**SUMMARY OF RECOMMENDATIONS**

Staff recommends the following as the primary points of discussion:

1. The building materials and colors; the tinted glass; the proportions of the northernmost building bay.
2. The vacuum and pay station equipment: visibility, character, appropriate treatment, screening.
3. The character of the proposed canopies and whether they will be integrated into the overall plan of development.
4. The landscaping proposed along the EC.
5. The lack of perimeter trees.

**Regarding the site plan and architectural design, Staff recommends approval with the following revisions:**

1. Revise the design of the upper half of the north tower to break up the wall area between the stringcourses, and to relieve the top-heavy appearance (without increasing the size of the wall sign).
2. Clarify the relative heights of the vacuums and the vac canopies.
3. Add the standard window glass note to the drawings: \textit{Visible light transmittance (VLT) will not drop below 40. Visible light reflectance (VLR) will not exceed 30%.}
4. Eliminate the vac canopies to reduce visual impacts. Alternatively, reduce the vac canopy fascia height to appear more proportional with the 10’ posts.
5. Confirm that there is no equipment visible above the vac canopy fascias.
6. Revise the photometric plan to include the wall fixtures.
7. Limit wall-mounted lighting to that which is needed for safety/security. Eliminate the fixtures above the awnings on the east elevation.
8. Revise the photometric plan to include the locations of all wall-mounted fixtures and all canopy fixtures, and the illumination from those fixtures. Limit illumination at the ground to 20 fc maximum.
9. Include the cut sheets in the site plan set.
10. Revise the lighting plan to show that the color temperature of all proposed light fixtures is the same level between 2000 and 3000K.
11. Revise the lighting plan to show that site light poles and fixtures have a bronze finish.
12. Revise the lighting plan to clearly state that site pole light height will not exceed 20’, including any bases. Revise the photometrics to account for this change.
13. Shift trees to avoid utility conflicts.
14. Provide a complete landscape schedule on the landscape plan.
15. Add trees to the northeast corner of the site where utility conflicts don’t exist.
16. Remove the note from the landscape plan that reads, “Small to medium trees can be substituted for large trees if overhead utilities are present. See VDOT road design manual appendix B(1)-47.”
17. Provide a copy of ACSA’s approval of the landscape plan.
18. Provide trees 2 ½” caliper at planting, 40’ on center along Woodbrook Drive, clear of utilities and easements.
19. Ensure that the landscape plan includes the shrub planting along the carwash exit travelway.
20. Increase planting area to meet landscape requirements along the north, south and western perimeters.
21. Round proposed contours with a ten-foot minimum radius where they meet the adjacent condition.
22. Signage is reviewed and approved by separate submission. However, the following preliminary comments are provided: Wall sign design has changed since the last review. Walls sign type is still illustrated as cabinet signs, but colors have been changed to black and white. Cabinet signs are not the preferred sign type in the ECs. If illuminated, the background portion of cabinet style signs must be opaque.
TABLE A  This report is based on the following submittal items:

<table>
<thead>
<tr>
<th>Sheet #</th>
<th>Drawing Name</th>
<th>Revision Date</th>
<th>Sheet #</th>
<th>Drawing Name</th>
<th>Revision Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Site Development Plans</td>
<td></td>
<td>9.1</td>
<td>Car Wash Plans</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cover Sheet</td>
<td>6/22/20</td>
<td>9.2</td>
<td>ADA Access Plan</td>
<td>6/22/20</td>
</tr>
<tr>
<td>3</td>
<td>Existing Conditions &amp; Demo Plan</td>
<td>6/22/20</td>
<td>10.1</td>
<td>ADA Details</td>
<td>6/22/20</td>
</tr>
<tr>
<td>4</td>
<td>Site Plan</td>
<td>6/22/20</td>
<td>10.2</td>
<td>Landscape Plan</td>
<td>6/22/20</td>
</tr>
<tr>
<td>5</td>
<td>Utility Plan</td>
<td>6/22/20</td>
<td>11.1</td>
<td>Landscape Details</td>
<td>6/22/20</td>
</tr>
<tr>
<td>6</td>
<td>Erosion Control Plan</td>
<td>6/22/20</td>
<td>11.2</td>
<td>Outdoor Lighting Plan</td>
<td>6/22/20</td>
</tr>
<tr>
<td>7</td>
<td>Erosion Control Details</td>
<td>6/22/20</td>
<td>11.3</td>
<td>Equipment Sales</td>
<td>6/22/20</td>
</tr>
<tr>
<td>8</td>
<td>Stormwater Calculations and Profiles</td>
<td>6/22/20</td>
<td>11.4</td>
<td>Equipment Sales</td>
<td>6/22/20</td>
</tr>
<tr>
<td>9</td>
<td>Standard Details</td>
<td>6/22/20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>ADA Access Plan</td>
<td>6/22/20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>ADA Details</td>
<td>6/22/20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Landscape Plan</td>
<td>6/22/20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Landscape Details</td>
<td>6/22/20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Outdoor Lighting Plan</td>
<td>6/22/20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-</td>
<td></td>
<td>14.1</td>
<td></td>
<td>6/22/20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>14.2</td>
<td></td>
<td>6/22/20</td>
</tr>
</tbody>
</table>
Figure 1: Vicinity Map.
Figure 2: View of site from across Route 29.

Figure 3: View of area between EC and building.

Figure 4: View of overhead utilities.
SITE DEVELOPMENT PLANS
FOR
W4 DEVELOPMENT
CAR WASH

SITE PLAN NUMBER: SDP20200021

CLIENT
W4 DEVELOPMENT
PROJECT LOCATION
2100 RIO HILL CENTER
CHARLOTTESVILLE, ALBEMARLE COUNTY
VIRGINIA 22901

TAX MAP AND PARCEL NUMBER: 04500-00-00-093C0
INITIAL SITE PLAN NUMBER: SDP2019000052

VSMP PLAN # WPPO2019000067
RIO MAGISTERIAL DISTRICT

JANUARY 30, 2020

LOCATION MAP
SCALE: R.T.S.

24-HOUR CONTACT: Greg DeBacker (703) 548-1151

1200 RIO HILL CENTER

 VSMP PLAN # WPPO2019000067
RIO MAGISTERIAL DISTRICT

JANUARY 30, 2020

LOCATION MAP
SCALE: R.T.S.

24-HOUR CONTACT: Greg DeBacker (703) 548-1151
<table>
<thead>
<tr>
<th>WALL LOCATION</th>
<th>STATION</th>
<th>TOP OF WALL (FEET)</th>
<th>BOTTOM OF WALL (FEET)</th>
<th>WALL HEIGHT (FEET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3000</td>
<td>420.39</td>
<td>410.39</td>
<td>10</td>
</tr>
<tr>
<td>B</td>
<td>7000</td>
<td>420.39</td>
<td>410.39</td>
<td>10</td>
</tr>
<tr>
<td>C</td>
<td>11000</td>
<td>420.39</td>
<td>410.39</td>
<td>10</td>
</tr>
<tr>
<td>D</td>
<td>15000</td>
<td>420.39</td>
<td>410.39</td>
<td>10</td>
</tr>
</tbody>
</table>

**Retaining Wall “B”**

<table>
<thead>
<tr>
<th>WALL LOCATION</th>
<th>STATION</th>
<th>TOP OF WALL (FEET)</th>
<th>BOTTOM OF WALL (FEET)</th>
<th>WALL HEIGHT (FEET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>3000</td>
<td>420.39</td>
<td>410.39</td>
<td>10</td>
</tr>
<tr>
<td>B2</td>
<td>7000</td>
<td>420.39</td>
<td>410.39</td>
<td>10</td>
</tr>
</tbody>
</table>

**Retaining Wall “C”**

<table>
<thead>
<tr>
<th>WALL LOCATION</th>
<th>STATION</th>
<th>TOP OF WALL (FEET)</th>
<th>BOTTOM OF WALL (FEET)</th>
<th>WALL HEIGHT (FEET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>3000</td>
<td>420.39</td>
<td>410.39</td>
<td>10</td>
</tr>
<tr>
<td>C2</td>
<td>7000</td>
<td>420.39</td>
<td>410.39</td>
<td>10</td>
</tr>
</tbody>
</table>

BOTTOM OF WALL EQUALS FINISHED GRADE
SECTION A - A

MTX BUFFER

SECTION B - B

i

r.w.

NOTE

1. Handicap ramp construction shall conform to all federal, state and city codes and specifications.
2. Surfaces shall meet the requirements of 2010 ADA and the 2004 ADAAG.
3. The slope of the gutter must not exceed 1:20 adjacent to the ramp.

Standard Construction Detail

Handicap Ramp Type

CROSS WALK STRIPING

PAINTED HANDICAPPED PARKING SPACE & SYMBOL

NOT TO SCALE
### Statistics

<table>
<thead>
<tr>
<th>Description</th>
<th>Symbol</th>
<th>Avg</th>
<th>Max</th>
<th>Min</th>
<th>Avg/Min</th>
<th>Max/Min</th>
<th>Avg/Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light each House</td>
<td>0.81</td>
<td>0.4</td>
<td>0.6</td>
<td>0.6</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Parking lot light</td>
<td>3.5</td>
<td>0.3</td>
<td>1.5</td>
<td>1.5</td>
<td>3.5</td>
<td>1.5</td>
<td>3.5</td>
</tr>
<tr>
<td>Property line</td>
<td>0.6</td>
<td>2.1</td>
<td>0.8</td>
<td>0.8</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Schedule

| Symbol | Label | Qty | Catalog 
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>P5</td>
<td>2</td>
<td>Hitachi LED</td>
<td>Single head single luminaire, power 150W, 3000K (neutral), high height, 110-277V, (standard)</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Hitachi LED</td>
<td>Single head single luminaire, power 150W, 3000K (neutral), high height, 110-277V, (standard)</td>
</tr>
<tr>
<td>P6</td>
<td>2</td>
<td>OSRAM LED</td>
<td>Double head single luminaire, power 150W, 3000K (neutral), high height, 110-277V, (standard)</td>
</tr>
</tbody>
</table>

Each outdoor luminaire equipped with a lamp that emits 3,000 or more initial lumens shall be a full cutoff luminaire and shall be arranged or shielded to reflect light away from adjoining residential district and adjacent roads. The spillover of lighting from luminaires onto public roads and property in residential or rural areas zoning districts shall not exceed one-half footcandle.

**Carwash - Chesterfield County, VA - Site Lighting Photometric**

**Engineers:**
- James A. Carter
- Eric M. Bland
- Karl A. Vossen

**Prepared by:**
- Carter Engineering Consultants
- 13000 Madison Avenue, Virginia

**Date:**
- 06/22/20
DESCRIPTION
The SCP-R recessed canopy is a low-profile 16” square canopy with a variety of precision engineered optics for application flexibility. This canopy optimizes optical performance and long-life with superior thermal management in an attractive and durable die-formed aluminum enclosure with premium PMMA optical lenses that do not yellow over time. This product can be easily recess mounted to ceilings or overhead canopies with only 1.2” thickness below the ceiling plane. The SCP-R is the ideal energy-saving solution for applications including, but not limited to, parking garages, schools, office complexes, light commercial development, apartments, walkways, entryways and stairwells.

CONSTRUCTION
• Precision die-formed aluminum enclosure with stainless steel hardware
• White powder coat finish, custom colors available upon request
• IP65 rated light engine compartment

OPTICS/LEDs
• UV-stabilized polymethyl methacrylate (PMMA) optics that will not yellow over time
• Garage optics provides a type V short symmetric square distribution with light focused in the 60° to 80° zones to optimize spacing with even light distribution
• Performance optic provides a type VS (square) very short distribution and offers more light in the 30° to 60° zones, ideal for higher mounting heights over 12’
• Low glare optic provides excellent Type VS (square) short distribution with exceptional glare control
• From 20W to 67W with up to 9016 lumens for maximum project flexibility
• Efficacies up to 134 LPW maximize energy savings and utility rebates
• 4000K CCT and 5000K CCT
• L70 of 190,000 hours
• CRI ≥71

ELECTRICAL
• 120-277VAC, 50/60Hz
• 0-10V Dimming driver

INSTALLATION
• Fixture attaches to canopy surface and can cover up to 15” holes
• A safety cable and a wireway cover are provided for ease of wiring

TESTING & COMPLIANCE
• cETLus Listed to UL1598 for Wet Locations for covered canopy applications
• DesignLights Consortium® (DLC) PREMIUM Qualified
• Operating temperatures: -40°C to 40°C (-40°F to 104°F)

WARRANTY
• Five year warranty (terms and conditions apply)

Specs At A Glance*
| Wattage (W) | 20 | 36 | 50 | 67 |
| Lumens (lm) | 2670 | 4815 | 6586 | 8940 |
| Efficacy (LPW) | 130 | 133 | 131 | 133 |
| Equivalency (HID) | 70W | 100W | 150W | 250W |
| Distribution | Garage (G) - Type VS Square Short | Low Glare (LG) - Type VS Square Short | Performance (P) - Type VS Square Very Short |
| CCT | 4000K, 5000K |
| CRI | ≥71 |
| Input Voltage | 120-277VAC, 50/60Hz, 0-10V Dimmable |
| Operating Temp | -40°C to 40°C (-40°F to 104°F) |
| Certifications | cETLus Listed, Wet Locations Covered Canopy, DLC PREMIUM |
| Warranty | 5 Years |
| Weight | 7.0 lbs |

*Nominal Wattage (4000K CCT)

Note: Environment and application will affect actual performance. Typical values and 25°C used for testing. Specifications subject to change without notice.

ORDERING INFORMATION

Example: SCP-R-20-P-VS-4K-WH

<table>
<thead>
<tr>
<th>Series</th>
<th>Wattage</th>
<th>Optics</th>
<th>Input Voltage</th>
<th>CCT</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCP-R</td>
<td>20 = 20 Watts</td>
<td>G = Garage</td>
<td>VS = 120-277V</td>
<td>4K = 4000K</td>
<td>WH = White</td>
</tr>
<tr>
<td></td>
<td>36 = 36 Watts</td>
<td>LG = Low Glare</td>
<td>5K¹ = 5000K</td>
<td>CC² = Custom Color</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50 = 50 Watts</td>
<td>P = Performance</td>
<td>CC² = Custom Color</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>67 = 67 Watts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes
1 Non-stocked item, longer lead times apply, consult factory for details
2 Consult factory for details
### PERFORMANCE DATA

<table>
<thead>
<tr>
<th>MODEL</th>
<th>STOCK/MTO*</th>
<th>WATTAGE (W)</th>
<th>CCT</th>
<th>LUMENS</th>
<th>EFFICACY</th>
<th>CRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCP-R-20-LG-VS-4K</td>
<td>STOCK</td>
<td>20</td>
<td>4000K</td>
<td>2352</td>
<td>115</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-20-G-VS-4K</td>
<td>MTO</td>
<td>20</td>
<td>4000K</td>
<td>2543</td>
<td>124</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-20-P-VS-4K</td>
<td>STOCK</td>
<td>20</td>
<td>4000K</td>
<td>2670</td>
<td>130</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-20-LG-VS-5K</td>
<td>MTO</td>
<td>20</td>
<td>5000K</td>
<td>2350</td>
<td>114</td>
<td>73</td>
</tr>
<tr>
<td>SCP-R-20-G-VS-5K</td>
<td>MTO</td>
<td>20</td>
<td>5000K</td>
<td>2533</td>
<td>123</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-20-P-VS-5K</td>
<td>MTO</td>
<td>20</td>
<td>5000K</td>
<td>2670</td>
<td>129</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-36-LG-VS-4K</td>
<td>STOCK</td>
<td>36</td>
<td>4000K</td>
<td>4227</td>
<td>117</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-36-G-VS-4K</td>
<td>MTO</td>
<td>36</td>
<td>4000K</td>
<td>4582</td>
<td>126</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-36-P-VS-4K</td>
<td>STOCK</td>
<td>36</td>
<td>4000K</td>
<td>4815</td>
<td>133</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-36-LG-VS-5K</td>
<td>MTO</td>
<td>36</td>
<td>5000K</td>
<td>4282</td>
<td>118</td>
<td>73</td>
</tr>
<tr>
<td>SCP-R-36-G-VS-5K</td>
<td>MTO</td>
<td>36</td>
<td>5000K</td>
<td>4601</td>
<td>126</td>
<td>73</td>
</tr>
<tr>
<td>SCP-R-36-P-VS-5K</td>
<td>MTO</td>
<td>36</td>
<td>5000K</td>
<td>4839</td>
<td>133</td>
<td>73</td>
</tr>
<tr>
<td>SCP-R-50-LG-VS-4K</td>
<td>MTO</td>
<td>50</td>
<td>4000K</td>
<td>5702</td>
<td>114</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-50-G-VS-4K</td>
<td>MTO</td>
<td>50</td>
<td>4000K</td>
<td>6306</td>
<td>125</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-50-P-VS-4K</td>
<td>MTO</td>
<td>50</td>
<td>4000K</td>
<td>6586</td>
<td>131</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-50-LG-VS-5K</td>
<td>MTO</td>
<td>50</td>
<td>5000K</td>
<td>5590</td>
<td>112</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-50-G-VS-5K</td>
<td>MTO</td>
<td>50</td>
<td>5000K</td>
<td>6168</td>
<td>123</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-50-P-VS-5K</td>
<td>MTO</td>
<td>50</td>
<td>5000K</td>
<td>6472</td>
<td>130</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-67-LG-VS-4K</td>
<td>MTO</td>
<td>67</td>
<td>4000K</td>
<td>7829</td>
<td>117</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-67-G-VS-4K</td>
<td>MTO</td>
<td>67</td>
<td>4000K</td>
<td>8466</td>
<td>126</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-67-P-VS-4K</td>
<td>MTO</td>
<td>67</td>
<td>4000K</td>
<td>8940</td>
<td>133</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-67-LG-VS-5K</td>
<td>MTO</td>
<td>67</td>
<td>5000K</td>
<td>7887</td>
<td>118</td>
<td>72</td>
</tr>
<tr>
<td>SCP-R-67-G-VS-5K</td>
<td>MTO</td>
<td>67</td>
<td>5000K</td>
<td>8589</td>
<td>128</td>
<td>71</td>
</tr>
<tr>
<td>SCP-R-67-P-VS-5K</td>
<td>MTO</td>
<td>67</td>
<td>5000K</td>
<td>9016</td>
<td>134</td>
<td>72</td>
</tr>
</tbody>
</table>

*MTO = Made to order (subject to change, consult factory for lead times)

### DIMENSIONS

![Dimension Diagrams]

### SAMPLE PHOTOMETRICS

**SCP-R-36-P-VS-4K**

IES: Type VS Square Very Short  
MOUNTING HEIGHT: 10'  
HORIZONTAL SPACING CRITERIA: 1.78
Quick Facts
- Lumen packages range from 7,100 - 48,600 lumens (50W - 350W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 148 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Dimensional Details

Preval

Preval XL


Lumark
PRV / PRV-XL Prevail LED
Area / Site Luminaire

Typical Applications
Outdoor • Parking Lots • Walkways • Roadways • Building Areas

Product Certifications

Product Features

Interactive Menu
- Ordering Information page 2
- Mounting Details page 3
- Optical Configurations page 3
- Product Specifications page 3
- Energy and Performance Data page 4
- Control Options page 5
**Ordering Information**

**SAMPLE NUMBER: PRV-XL-C75-D-UNV-T4-SA-BZ**

<table>
<thead>
<tr>
<th>Product Family ¹ ²</th>
<th>Light Engine ²</th>
<th>Driver Volt.</th>
<th>Voltage Distribution</th>
<th>Mounting (Included)</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRV / PRV-XL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Options (Add as Suffix)**

- **Universal (120-277V)**
- **Dimming (0-10V)**
- **UNV** = Universal (120-277V)
- **SA** = Standard Versatile Arm
- **MA** = Mast Arm
- **WM** = Wall Mount Arm

<table>
<thead>
<tr>
<th>Driver Voltage Distribution Mounting</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNV / Universal (120-277V)</td>
<td></td>
</tr>
<tr>
<td>347 / 347V</td>
<td></td>
</tr>
<tr>
<td>480 / 480V</td>
<td></td>
</tr>
<tr>
<td>T2 / Type II</td>
<td></td>
</tr>
<tr>
<td>T3 / Type III</td>
<td></td>
</tr>
<tr>
<td>T4 / Type IV</td>
<td></td>
</tr>
</tbody>
</table>

**Accessories (Order Separately)³**

- **PRV-WH-XX** = Wall Mount Kit X³
- **PRVMA-XX** = Mast Arm Mounting Kit X³
- **PRVSA-XX** = Standard Arm Mounting Kit X³
- **PRVXLMA-XX** = Standard Arm Mounting Kit (for PRV XL) X³
- **PRVXLSA-XX** = Mast Arm Mounting Kit (for PRV XL) X³
- **PRVXL-WM-XX** = Standard Arm Mounting Kit (for PRV XL) X³
- **PRVA1010-XX** = Single Tenon Adapter for 3 / 20 D.O. Tenon
- **PRVA1011-XX** = Single Tenon Adapter for 3 / 20 D.O. Tenon
- **PRVA1012-XX** = Single Tenon Adapter for 3 / 20 D.O. Tenon
- **PRVSA1-XX** = Mast Arm Mounting Kit
- **PRVWM-XX** = Wall Mount Kit
- **PRVMA-XX** = Mast Arm Mounting Kit
- **PRVXL-WM-XX** = Standard Arm Mounting Kit
- **PRVXLMA-XX** = Standard Arm Mounting Kit

**NOTES:**

2. Customer is responsible for engineering analysis to confirm code and future compatibility for applications. Refer to installation instructions and pole wire white paper WP101010 for additional support information.
3. Standard 4000K CCT and 7000K CCT.
4. Not available with 347V, 480V, or HA options. Consult LumenSafe system pages for additional details and compatibility information.
5. Not available with C60 lumen package.
6. Option will come factory-installed. House Side Shield not suitable with T5 distribution or C60 lumen package.
7. Not available with C60 lumen package.
8. Only available in PRV configurations C75, C150, C100 or C60.
9. Controls system is not available with photocell-receptacle (PER or PER7) or other control systems (MS, MSP, ZW or LWR).
10. Utilizes the Wattstopper sensor FSP-211.
11. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
12. Not available with C60 lumen package.
13. Wall Mount Arm Kit (for PRV XL) X³

---

**Stock Ordering Information**

**Product Family ¹ | Light Engine ² | Voltage Distribution | Options (Add as Suffix) | Color**

<table>
<thead>
<tr>
<th>Product Family ¹</th>
<th>Light Engine ²</th>
<th>Voltage Distribution</th>
<th>Options (Add as Suffix)</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRV / PRV-XL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**

1. All stock configurations are standard 4000K/75CRI bronze finish, and include the standard versatile mounting arm.
2. Only available in PRV configurations C75, C150, C100 or C60.
### Mounting Details

**Pole Mount Arm (PRV)**
- 4-15/16" (126mm)
- 6-1/16" (153mm)
- 3-3/4" (96mm)

**Wall Mount (PRV)**
- 2-3/8" (60mm)
- 7-1/8" (181mm)
- 3-1/4" (83mm)

**Mast Arm Mount (PRV)**
- 2-1/2" (64mm)
- 3-1/4" (83mm)

**Pole Mount Arm (PRV-XL)**
- 4-7/8" (124mm)
- 1-7/16" (34mm)
- 6-7/8" (124mm)

**Wall Mount (PRV-XL)**
- 7-1/8" (181mm)
- 5-11/16" (144mm)
- 3-1/8" (78mm)

**Mast Arm Mount (PRV-XL)**
- 3" (76mm)
- 5" (127mm)
- 13/32" (11mm)

### Mounting Configurations and EPAs

**NOTE:** For 2 PRV’s mounted at 90°, requires minimum 3” square or 4” round pole for fixture clearance. For 2 PRV-XL’s mounted at 90°, requires minimum 4” square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications.

**Wall Mount**
- Arm Mount Single
  - EPA 0.92 (PRV)
  - EPA 1.12 (PRV-XL)
- Arm Mount 2 @ 180°
  - EPA 1.35 (PRV)
  - EPA 2.25 (PRV-XL)
- Arm Mount 2 @ 90°
  - EPA 1.42 (PRV)
  - EPA 2.13 (PRV-XL)
- Arm Mount 3 @ 90°
  - EPA 1.63 (PRV)
  - EPA 2.52 (PRV-XL)
- Arm Mount 4 @ 90°
  - EPA 1.83 (PRV)
  - EPA 2.52 (PRV-XL)

### Optical Configurations

**PRV-C15**
- (7,100 Nominal Lumens)

**PRV-C25/C40/C60**
- (13,100/17,100/20,000 Nominal Lumens)

**PRV-XL-C75/C100/C125**
- (26,100/31,000/36,300 Nominal Lumens)

**PRV-XL-C150/C175**
- (41,100/46,600 Nominal Lumens)

### Product Specifications

**Construction**
- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door

**Optics**
- Dark Sky Approved (3000K CCT and warmer only)
- Precision molded polycarbonate optics

**Electrical**
- -40°C minimum operating temperature
- 40°C maximum operating temperature
- > 5 power factor
- <20% total harmonic distortion

**Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate**

**0-10V dimming driver is standard with leads external to the fixture**

**Mounting**
- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8"
- A knock-out on the standard mounting arm enables round pole mounting
- Preval: 3G vibration rated
- Preval XL: Mast Arm: 3G vibration rated
- Preval XL: Standard Arm: 1.5G vibration rated

**Finish**
- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness

**Shipping Data**
- Preval: 20 lbs. (9.09 kgs.)
- Preval XL: 45 lbs. (20.41 kgs.)
## Energy and Performance Data

### Power and Lumens (PRV)

<table>
<thead>
<tr>
<th>Light Engine</th>
<th>C15</th>
<th>C25</th>
<th>C40</th>
<th>C60</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>52</td>
<td>96</td>
<td>131</td>
<td>153</td>
</tr>
<tr>
<td>Power (Watts)</td>
<td>52</td>
<td>96</td>
<td>131</td>
<td>153</td>
</tr>
<tr>
<td>Input Current @ 120V (A)</td>
<td>0.43</td>
<td>0.80</td>
<td>1.09</td>
<td>1.32</td>
</tr>
<tr>
<td>Input Current @ 277V (A)</td>
<td>0.19</td>
<td>0.35</td>
<td>0.48</td>
<td>0.57</td>
</tr>
<tr>
<td>Input Current @ 347V (A)</td>
<td>0.17</td>
<td>0.30</td>
<td>0.41</td>
<td>0.48</td>
</tr>
<tr>
<td>Input Current @ 480V (A)</td>
<td>0.12</td>
<td>0.22</td>
<td>0.30</td>
<td>0.35</td>
</tr>
</tbody>
</table>

### Distribution

**Type II**
- 4000K Lumens: 7,123, 13,205, 17,172, 20,083
- 3000K Lumens: 6,994, 12,965, 16,860, 19,718

**Type III**
- 4000K Lumens: 7,111, 13,183, 17,144, 20,050

**Type IV**
- 4000K Lumens: 7,088, 13,140, 17,087, 19,984

**Type V**
- 4000K Lumens: 7,576, 14,045, 18,264, 21,360

### Power and Lumens (PRV-XL)

<table>
<thead>
<tr>
<th>Light Engine</th>
<th>C75</th>
<th>C100</th>
<th>C125</th>
<th>C150</th>
<th>C175</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>176</td>
<td>217</td>
<td>264</td>
<td>285</td>
<td>346</td>
</tr>
<tr>
<td>Power (Watts)</td>
<td>176</td>
<td>217</td>
<td>264</td>
<td>285</td>
<td>346</td>
</tr>
<tr>
<td>Input Current @ 120V (A)</td>
<td>1.50</td>
<td>1.84</td>
<td>2.21</td>
<td>2.38</td>
<td>2.92</td>
</tr>
<tr>
<td>Input Current @ 277V (A)</td>
<td>0.66</td>
<td>0.82</td>
<td>0.97</td>
<td>1.04</td>
<td>1.25</td>
</tr>
<tr>
<td>Input Current @ 347V (A)</td>
<td>0.54</td>
<td>0.66</td>
<td>0.79</td>
<td>0.84</td>
<td>1.02</td>
</tr>
<tr>
<td>Input Current @ 480V (A)</td>
<td>0.40</td>
<td>0.48</td>
<td>0.57</td>
<td>0.62</td>
<td>0.74</td>
</tr>
</tbody>
</table>

### Lumen Maintenance

<table>
<thead>
<tr>
<th>Configuration</th>
<th>TM-21 Lumen Maintenance (50,000 Hours)</th>
<th>Theoretical L70 (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to PRV-C60 at 25ºC</td>
<td>91.30%</td>
<td>194,000</td>
</tr>
<tr>
<td>Up to PRV-C60 at 40ºC</td>
<td>87.59%</td>
<td>134,000</td>
</tr>
<tr>
<td>Up to PRV-XL-C175 at 25ºC</td>
<td>91.40%</td>
<td>204,000</td>
</tr>
<tr>
<td>Up to PRV-XL-C175 at 40ºC</td>
<td>89.41%</td>
<td>158,000</td>
</tr>
</tbody>
</table>

### Lumen Multiplier

<table>
<thead>
<tr>
<th>Ambient Temperature</th>
<th>Lumen Multiplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>10ºC</td>
<td>1.02</td>
</tr>
<tr>
<td>15ºC</td>
<td>1.01</td>
</tr>
<tr>
<td>25ºC</td>
<td>1.00</td>
</tr>
<tr>
<td>40ºC</td>
<td>0.99</td>
</tr>
</tbody>
</table>

---

---
Control Options

0-10V (D) The dimming option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PER and PER7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

Dimming Occupancy Sensor (MSP and MS) These sensors are factory installed in the luminaire housing. When a sensor for dimming operation (DIM) option is selected, the luminaire will dim down to approximately 50 percent power after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. When a sensor for ON/OFF operation is selected, the luminaire will turn off after five minutes of no activity.

These occupancy sensors include an integral photocell that can be activated or inactivated with the programming remote / configuration tool for "dusk-to-dawn" control or "daylight harvesting". Note: For MSP sensors, the factory preset is ON (Enabled), and for MS sensors, the factory preset is OFF (Disabled). The programming remote / tool is a wireless tool that can be utilized to change the dimming level, time delay, sensitivity and other parameters. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 8'-40'.

WaveLinx Wireless Control and Monitoring System: Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinx Mobile application for setup and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinx Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 8'-40'.

LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.

LumenSafe (LD) The LumenSafe integrated network camera is a streamlined, outdoor-ready camera that provides high definition video surveillance. This IP camera solution is optimally designed to integrate into virtually any video management system or security software platform of choice. No additional wiring is needed beyond providing line power to the luminaire. LumenSafe features factory-installed power and networking gear in a variety of networking options allowing security integrators to design the optimal solution for active surveillance.
**Cylinder 7.75” 1-Light Wall Light Architectural Bronze**

9236AZ (Architectural Bronze)

<table>
<thead>
<tr>
<th>Location</th>
<th>Qty.</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Certifications/Qualifications**

- Dark Sky Compliant: Yes
- Location Rating: Wet

**Dimensions**

<table>
<thead>
<tr>
<th>Detail</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Backplate</td>
<td>5.00 x 4.75</td>
</tr>
<tr>
<td>Extension</td>
<td>8.50&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>1.25 LBS</td>
</tr>
<tr>
<td>Height from center of Wall opening (Spec. Sheet)</td>
<td>4.00”</td>
</tr>
<tr>
<td>Height</td>
<td>7.75&quot;</td>
</tr>
<tr>
<td>Width</td>
<td>6.00”</td>
</tr>
</tbody>
</table>

**Mounting/Installation**

- Interior/Exterior: Exterior
- Mounting Style: Wall Mount

**Primary Lamping**

- Lamp Included: Not Included
- Lamp Type: BR40
- Light Source: Incandescent
- Max or Nominal Watt: 120W
- # of Bulbs/LED Modules: 1
- Sockets Type: Medium
- Socket Wires: 150

**Product/Ordering Information**

<table>
<thead>
<tr>
<th>Detail</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKU</td>
<td>9236AZ</td>
</tr>
<tr>
<td>Finish</td>
<td>Bronze</td>
</tr>
<tr>
<td>Style</td>
<td>Contemporary</td>
</tr>
<tr>
<td>UPC</td>
<td>783927923644</td>
</tr>
</tbody>
</table>

**Specifications**

- Material: ALUMINUM

**Additional Finishes**

- Architectural Bronze

---

Notes:

1) Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.

2) Incandescent Equivalent: The incandescent equivalent as presented is an approximate number and is for reference only.
**RWH517 - R SERIES 17” WAREHOUSE SHADE**

This item can be converted to a pendant or wall sconce with purchase of separate compatible downrod or goose neck. Please see compatible downrods and arms below:

- Compatible downrods: RS1, RS2, and RS3
- Compatible with arms: RGN10, RGN12, RGN13, RGN15, RGN22, RGN23, RGN24, RGN30, and RGN41
- Compatible with wire guard: RWG17

**Dimensions**
- Width: 9¾”
- Height: 17”
- Wire: 100”

**Finish & Material**
- **Finishes**
  - ABR - Architectural Bronze
  - BP - Black Porcelain
  - GA - Galvanized
  - GY - Gray
  - NB - Navy Blue
  - NC - Natural Copper
  - SB - Satin Black
  - SFP - Sea Foam Porcelain
  - SG - Satin Green
  - SR - Satin Red
  - WH - White
  - WP - White Porcelain
- **Material:** Metal

**Wattage**
- Bulbs: 1-Medium A21
- Watts per Bulb: 200W
- Voltage: 120V
- Bulbs included: Yes

**Certification**
- UL Listed: Wet Location

**Item Number**
- SKU: RWH517

---

**RWH514 - R SERIES 14” WAREHOUSE SHADE**

This item can be converted to a pendant or wall sconce with purchase of separate compatible downrod or goose neck. Please see compatible downrods and arms below:

- Compatible downrods: RS1, RS2, and RS3
- Compatible with arms: RGN10, RGN12, RGN13, RGN15, RGN22, RGN23, RGN24, RGN30, and RGN41
- Compatible with wire guard: RWG14

**Dimensions**
- Width: 8½”
- Height: 14”
- Wire: 100”

**Finish & Material**
- **Finishes**
  - ABR - Architectural Bronze
  - BP - Black Porcelain
  - GA - Galvanized
  - GY - Gray
  - NB - Navy Blue
  - NC - Natural Copper
  - SB - Satin Black
  - SFP - Sea Foam Porcelain
  - SG - Satin Green
  - SR - Satin Red
  - WH - White
  - WP - White Porcelain
- **Material:** Metal

**Wattage**
- Bulbs: 1-Medium A21
- Watts per Bulb: 200W
- Voltage: 120V
- Bulbs included: Yes

**Certification**
- UL Listed: Wet Location

**Item Number**
- SKU: RWH514

---

*Note: All finishes on outdoor lighting must be properly maintained and treated. Therefore, we suggest cleaning with a regular application of finish preserving & renewing products such as Rejuvenate.*
**R SERIES OPTIONS**

**GOOSE NECKS - (WALL MOUNT)**

- **RGN10**
- **RGN12**
- **RGN3**
- **RGN15**
- **RGN22**
- **RGN23**
- **RGN24**
- **RGN30**
- **RGN41**

**FINISHES**
- ABR - Architectural Bronze
- AL - Aluminum
- ASB - Aluminum Painted Satin Black
- BP - Black Porcelain
- GA - Galvanized
- GY - Gray
- NB - Navy Blue
- NC - Natural Copper
- SB - Satin Black
- SFP - Sea Foam Porcelain
- SG - Satin Green
- SR - Satin Red
- WH - White

**STEM CONNECTORS**

- **RC**
  - Accepts 3/4" stem

**FINISHES**
- ABR - Architectural Bronze
- AL - Aluminum
- CP - Copper
- GA - Galvanized
- GY - Gray
- NB - Navy Blue
- SB - Satin Black
- SG - Satin Green
- SR - Satin Red
- WH - White

**WALL MOUNT SWIVELS**

- **RSW**
  - FINISHES
    - ABR - Architectural Bronze
    - CP - Copper
    - GA - Galvanized
    - SB - Satin Black
    - SG - Satin Green
    - SR - Satin Red
    - WH - White

**WIRE GUARDS**

- **RWG17**
- **RWG14**
- **RWG12**
- **RWG10**

**LED MODULE**

- **RLED24W**
  - This accessory is only compatible for the Warehouse Shade (i.e. RWH4574 & RWH377).
  - 1930 Lumens
  - 3000K
  - CRI 90
  - Dimmable

---

"Making the Desirable Affordable"
EXTERIOR FINISH LEGEND

- **EF-1**: EIFS system finish sand pebble
  - Color: Sherwin Williams SW 6016 Marshmallow
  - Color: Frosted White

- **BM-1**: Belden brick company, 5/16" thick modular thin brick
  - Color: Black

- **STN-1**: Stone - Handcrafted
  - Color: Smokey Mountain - Handcrafted

- **STN-2**: Horizons stone ledge cap
  - Color: Marquis Smoky Mountain

- **ACM-1**: Reynobond (or equal)
  - Color: Black

- **MTL-1**: Metal shade awning
  - Color: Sherwin Williams SW 6258 Tricorn Black

- **MTL-2**: MBC lock seam deck, 12" x 22 ga.
  - Color: Striated Supersanded Slate

- **ALMG/AL-1**: Aluminum and glass
  - Color: Dark Bronze: Glass Color: Gray

- **HOLLO-VRT**: Metal door and frame
  - Color: Sherwin Williams SW 6258 Black Bean

- **GLOPRY METAL OVERHEAD DOOR SERIES, MOSES 9820X2D**
  - Color: Smoky Mountain - Handcrafted

- **ALUM COLOR**: Dark Bronze: Glass Color: Gray

**NOTE**: All metal roof equipment is planned for this project. If any mechanical equipment is installed, it must be specified from survey so that visibility of all mechanical equipment shall be eliminated.
BRICK VENEER TO MATCH BLDG
6" DIA. STEEL BOLLARDS W/ CONC. FILL (TYP.)

8" A301
4"
8" 10'-8"
8"
2' - 10"
5'-0"
2' - 10"
714

Z6" CONC. SLAB W/ 6" x 6" 10/10 WWM ON 6 MIL VAPOR 8" C. M. U. WALL — BARRIER OVER CLEAN, WELL COMPACTED FILL 3500 P. S. I. CONC.) — 7" DUMPSTER ENCLOSURE PLAN

A301

DUMPSTER ENCLOSURE ELEVATION

A

DUMPSTER ENCLOSURE ELEVATION

B

DUMPSTER ENCLOSURE ELEVATION

C

DUMPSTER ENCLOSURE ELEVATION

D
Hardware Installation Detail

3/4" hex nut
3/4" flat washer
3/8" x 1" bolt washer

Vacuum Boom Foundation

Notes:
* 16" foot plate dim to run parallel to vehicle travel

Vacuum Boom Foot Plate Dim

Foundation

P105 F18 Concrete with Steel Reinforcement

16"
12"
Facing Car

NOT FOR CONSTRUCTION UNTIL APPROVED BELOW

APPROVED BY.
DATE

19410-D6-WCWV ALEXANDRIA KY

SCALE: N.T.S.
LOCATION: KY
EQUIPMENT PLAN

NOTE: ALL EQUIPMENT LOCATED WITHIN THE BUILDING