I	Introduced by		
First Reading		Second Reading	
Ordinance No		Council Bill No	<u>B 84-14</u>

AN ORDINANCE

authorizing a right of use permit with Columbia Properties II, LLC for construction, improvement, operation and maintenance of a private storm sewer system, stairs, tree grates and a modular block support system for transformers and switchgear within portions of the Fourth Street, Fifth Street and Conley Avenue rights-of-way (410 Conley Avenue); and fixing the time when this ordinance shall become effective.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. The City Manager is hereby authorized to execute a right of use permit with Columbia Properties II, LLC for construction, improvement, operation and maintenance of a private storm sewer system, stairs, tree grates and a modular block support system for transformers and switchgear within portions of the Fourth Street, Fifth Street and Conley Avenue rights-of-way (410 Conley Avenue). The form and content of the permit shall be substantially in the same form as set forth in "Attachment A" attached hereto.

SECTION 2. This ordinance shall be in full force and effect from and after its passage.

PASSED this _____ day of _____, 2014.

ATTEST:

City Clerk

Mayor and Presiding Officer

APPROVED AS TO FORM:

City Counselor

UNY.

RIGHT OF USE PERMIT

KNOW ALL MEN BY THESE PRESENT that on this ______ day of ______, 2014 the City of Columbia, a municipal corporation, in consideration of the sum of ten dollars (\$10.00) and other considerations to it paid, does hereby permit **Columbia Properties II, LLC**, their heirs and/or assigns (hereinafter referred to as "Permittee") to enter upon the following described lands owned by the City of Columbia and located as described below in, Columbia, County of Boone, State of Missouri, and more particularly described as follows, to wit:

The street right-of-way of 4th and 5th Street and Conley Avenue adjacent to Lot 1 of the Broadhead Place, Plat 2, further shown by Exhibit "A & B" attached to this right of use permit.

This permit is subject to the following conditions and stipulations:

1. This permit is for the exclusive purpose of construction, improvement, operation, and maintenance of a private storm sewer system, stairs, tree grates, modular block support system for transformers and swithgear.

2. This permit does not grant Permittee or any of its officers, agents or employees the right to cut, break, excavate or damage the sidewalk pavement adjacent to 4^{th} and 5^{th} Street and Conley Avenue without City consent.

3. Permittee will be responsible for the costs of any future repairs, maintenance or replacements which is the result from Permittee's use under this Right of Use Permit.

4. Prior to exercising its right granted herein, the Permittee shall present its construction plans or diagrams locating the proposed private storm sewer system, stairs, tree grates, modular block support system for transformers and swithgear to the City Public Works Department and City Water and Light Department and any existing utility company using facilities located within the limits of the Permit.

5. Prior to exercising its right granted hereunder, Permittee agrees to obtain all necessary permits required by the City of Columbia pertaining to the work being done in the right-of-way.

6. If the private storm sewer system, stairs, tree grates, modular block support system for transformers and swithgear is abandoned, all rights herein granted shall cease and terminate and Permittee shall have no further right of interest therein except that, upon abandonment, Permittee remains responsible for all of Permittee's underground utility facilities and structures left in place and any costs to remove them or store them or to otherwise clean up the right-of-way.

7. If at any time construction, repair, modification or relocation of the private storm sewer system, stairs, modular block support system for transformers and swithgear or of any utility existing in the right of way of 4th and 5th Street and Conley Avenue at the time this permit is granted, is necessary which would require the relocation of the removal of any portion of the private storm sewer system, stairs, tree grates, modular block support system for transformers and swithgear, the Permittee shall relocate the private storm sewer system, stairs, tree grates, modular block support system for transformers and swithgear, the removal of any system for transformers and swithgear, the shall relocate the private storm sewer system.

8. The Permittee agrees by exercising its rights under this permit that if the private storm sewer system, stairs, tree grates, modular block support system for transformers and swithgear, in anyway, whether negligently or intentionally by the construction, repair, modification or relocation of 4th and 5th Street and Conley Avenue or of any utility existing in the right-of-way of said city street at the time this permit is granted it will repair or replace the private storm sewer system, stairs, tree grates, modular block support system for transformers and swithgear at its own cost and hold the City of Columbia harmless for any of the costs associated with the repair or replacement or any other costs associated with the damage to the facilities.

9. This permit shall remain in effect until canceled by the City of Columbia, which shall be obligated to notify Permittee six (6) months in advance of the cancellation.

IN WITNESS WHEREOF, the said Party of the First Part has caused these presents to be signed by its officers the day and year first written above.

City of Columbia, Missouri

By:___

Mike Matthes City Manager

Attest:

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By:

Sheela Amin City Clerk

Approved as to form:

By:_____

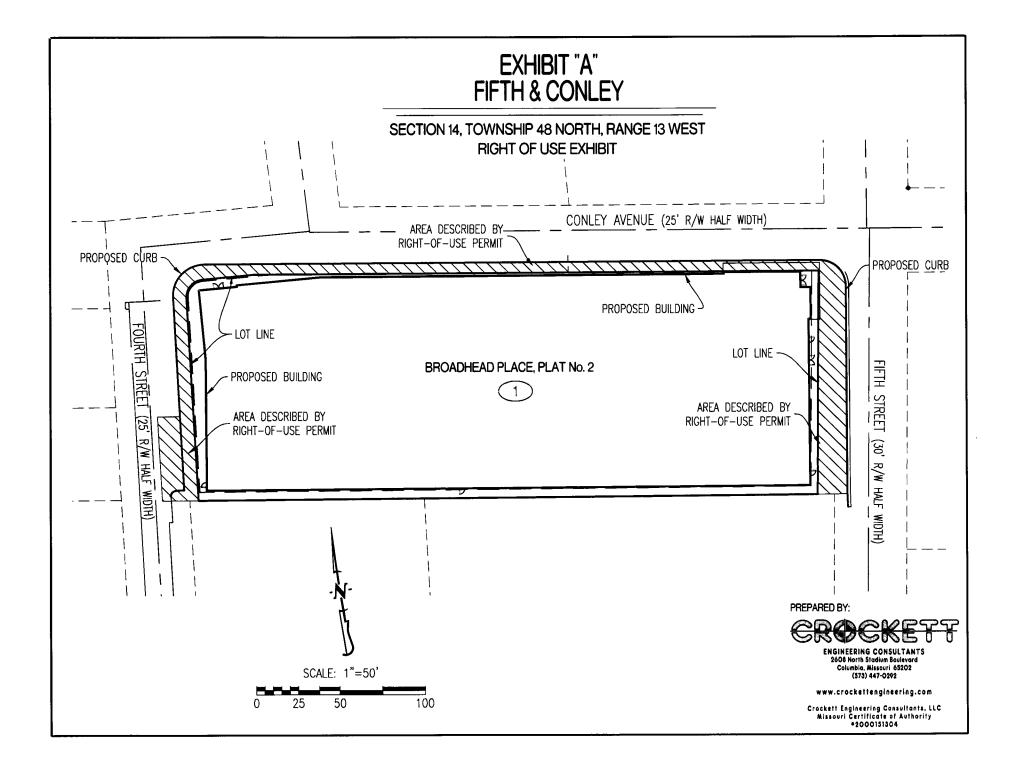
City Counselor

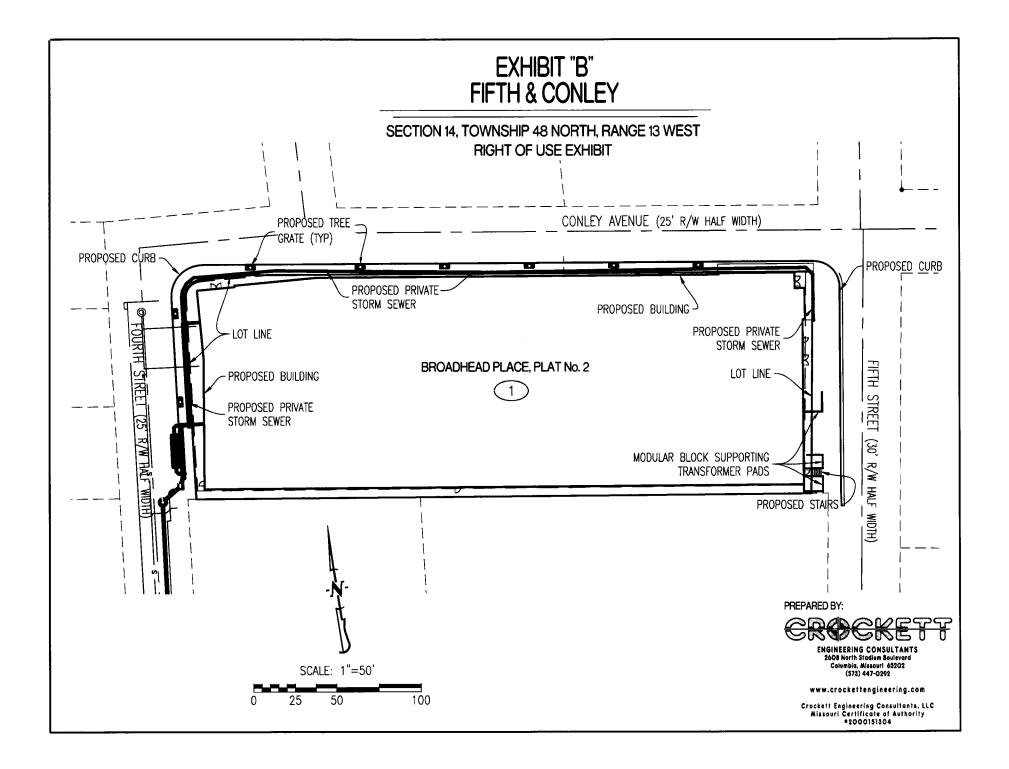
Columbia Properties II, LLC A Delaware Limited Liability Company

By: CHP Investments #1, LLC a Missouri Limited Liability Company

By:_

Charles E. Gillum – Member







Accent

A slimmed-down version of the Standard wall unit, Accent units measure 4 inches tall by 12 inches wide. They're lighter than Standard units, but engineered with the same high-strength, low-absorption concrete. Easily installed, Accent units draw minimal attention to the wall, saving the spotlight for pools, gardens, and other features of the surrounding landscape.

Units



Accent Unit

Width (face):	12" (304.8mm)	
Width (rear):	8" (203.2mm)	
Height:	4" (101.6mm)	Т
Depth:	12" (304.8mm)	h
Face Area:	0.33ft ² (0.015m ²)	e
Weight:	36lbs (16.33kg)	m
Weight / Face Area:	109lbs/ft ² (1089kg/m ²)	
Setback:	3/4" or 1/4" per unit	а
Batter/Cant:	10.6 or 3.6 degrees	xi
# Versa-Tuff Snap-off Pins:	2 per unit	m
Minimum Radius:	3 ft	u
Max Unreinforced Height:	4 ft*	m
Max Geogrid Reinforced	50+ ft	st
Height:		

able, unreinforced VERSA-LOK wall

height in best conditions, may be lower depending on soil, site and loading conditions (including terraces). Taller walls need geogrid soil reinforcement, designed by a qualified engineer. Check your local building code requirements. Please contact your supplier or VERSA-LOK representative for assistance.



Accent unit (weathered)

Specifications

versa-lok accent units - guide specifications.bt (http://www.versa-lok.com/sites/default/files/products/versa-

lok accent units - guide specifications.txt)

versa-lok accent units - quide specifications.doc (http://www.versa-lok.com/sites/default/files/products/versa-

lok accent units - quide specifications.doc)

versa-lok accent units - weathered - guide specifications.txt (http://www.versa-lok.com/sites/default/files/products/versa-

lok accent units - weathered - guide specifications.txt)

versa-lok accent units - weathered - guide specifications.doc (http://www.versa-

lok.com/sites/default/files/products/versa-lok_accent_units - weathered - guide_specifications.doc)

Additional available literature

Mail Download

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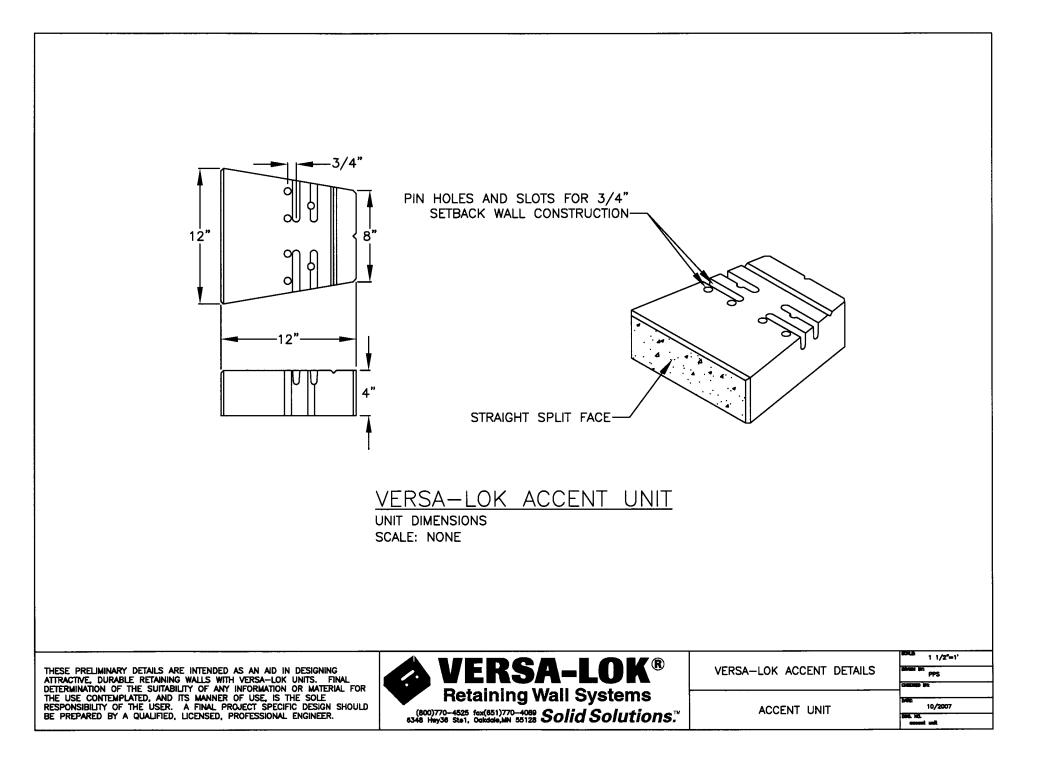
Technical Bulletin #1-Shorelines, Waterways, and Retention Pond Protection

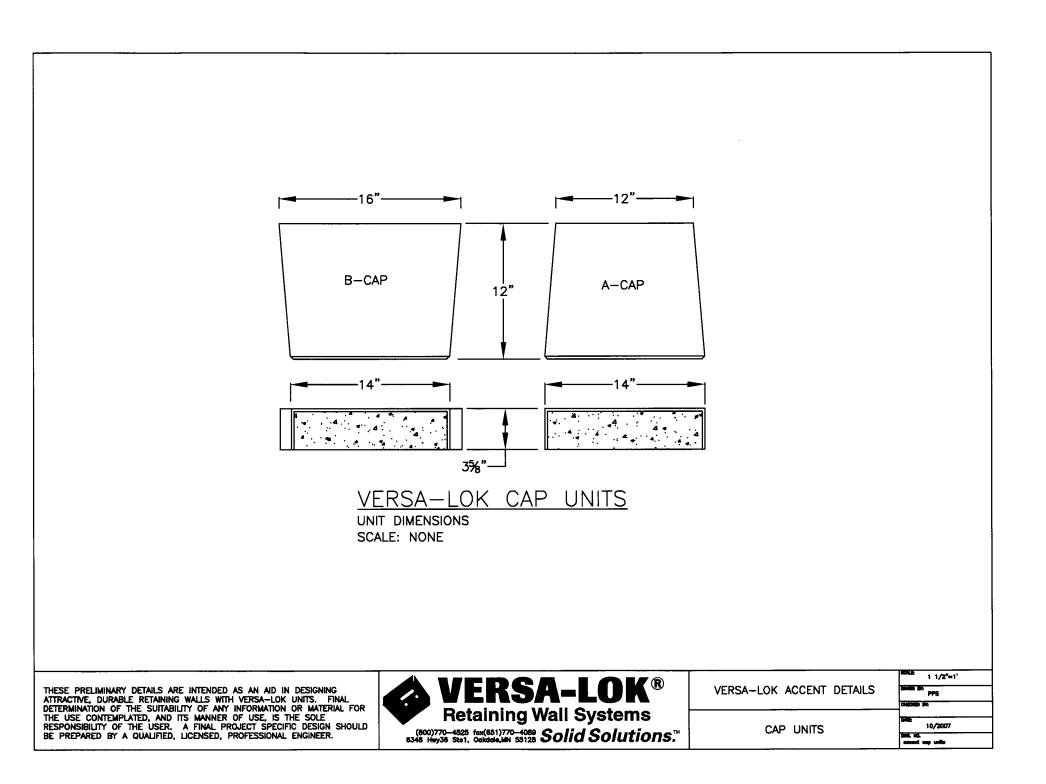
Jxlgholqhv#iru#xvlqj#YHUVD00RN#Uhwdlqlqj#Zda#V |vwhpv#lq#d# z dwhuthqylrqp hqwlffrxqgdwlrqtvwlhqjwk/trxu/tk | gurvwdwlf# exkg#ks/#dgg#llghv#p ljudwhrg#duh#dgguhvvhg1#



Technical Bulletin #4-Caps

Wlsv#cq#Edsslqj#vwudljkw#dqg#Exuyhg#zdav1#Lqfoxghv# glun fwir qv#iru#xvlqj#fdsv#dv#whdgv#zkhq#lqvwdoxiqj#YHUVD0 OR N #whsv1





SPECIFICATION FOR SEGMENTAL RETAINING WALL SYSTEMS

PART 1: GENERAL

1.01 Description

A. Work shall consist of furnishing materials, labor, equipment and supervision to install a segmental retaining wall system in accordance with plans and specifications and in reasonably close conformity with the lines, grades, design and dimensions shown on plans or established by Owner or Owner's engineer.

1.02 Reference Standards

- A. Segmental Retaining Wall Units
 - 1. ASTM C 140 Sampling and Testing Concrete Masonry Units
 - 2. ASTM C 1372 Standard Specification for Dry-Cast Segmental Retaining Wall Units

B. Geosynthetic Reinforcement

- 1. ASTM D 4595 Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method
- 2. ASTM D 5262 Standard Test Method for Evaluating the Unconfined Tension Creep and Creep Rupture Behavior of Geosynthetics
- 3. ASTM D 5321 Standard Test Method For Determining the Coefficient of Soil and Geosynthetic or Geosynthetic and Geosynthetic by Direct Shear Method
- 4. **ASTM D 5818** Standard Practice for Exposure and Retrieval of Samples to Evaluate Installation Damage of Geosynthetics
- 5. ASTM D 6706 Standard Test Method for Measuring Geosynthetic Pullout Resistance in Soil
- C. Soils
 - 1. ASTM D 698 Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort
 - 2. ASTM D 2487 Standard Practice for Classification of Soils for Engineering Purposes
 - 3. ASTM D 422 Standard Test Method for Particle-Size Analysis of Soils
 - 4. ASTM D 4318 Standard Test Method for Liquid Limit, Plastic Limit and Plasticity Index of Soils
 - 5. ASTM G 51 Standard Test Method for Measuring pH of Soil for Use in Corrosion Testing
- D. Drainage Pipe

- 1. **ASTM F 758** Standard Specification for Smooth-Wall Polyvinyl Chloride (PVC) Plastic Underdrain Systems for Highway, Airport or Similar Drainage
- 2. ASTM F 405 Standard Specification for Corrugated Polyethylene (PE) Pipe and Fittings
- E. Engineering Design
 - 1. "NCMA Design Manual for Segmental Retaining Walls," Third Edition
- F. Where specifications and reference documents conflict, the Wall Design Engineer shall make the final determination of applicable document.

1.03 Submittals

- A. Materials Submittals: The Contractor shall submit manufacturers' certifications two weeks prior to start of work stating that the SRW units and geosynthetic reinforcement meet the requirements of Section 2 of this specification.
- B. Design Submittal: The Contractor shall submit two sets of detailed design calculations and final retaining wall plans for approval at least two weeks prior to the beginning of wall construction. All calculations and drawings shall be prepared and sealed by a professional Civil Engineer (P.E.) (Wall Design Engineer) experienced in SRW design and licensed in the state where the wall is to be built.

1.04 Delivery, Storage and Handling

- A. Contractor shall check materials upon delivery to ensure that the specified type and grade of materials have been received and proper color and texture of SRW units have been received.
- B. Contractor shall store and handle materials in accordance with manufacturer's recommendations and in a manner to prevent deterioration or damage due to moisture, temperature changes, contaminants, corrosion, breaking, chipping or other causes.
- C. Contractor shall prevent excessive mud, wet concrete, epoxies and similar materials that may affix themselves from coming in contact with materials.
- D. Contractor shall protect materials from damage; no damaged material shall be incorporated into the segmental wall.
- E. Geosynthetic shall be protected from UV exposure and the protective covering on geosynthetic shall remain until immediately before installation and shall be stored at temperatures above -10 degrees F.

PART 2: MATERIALS

2.01 Segmental Retaining Wall Units

A. SRW units shall be machine formed, Portland cement concrete blocks specifically designed for retaining wall applications. SRW units currently approved for this project are:

VERSA-LOK Accent Retaining Wall Units as manufactured by ______.

- B. Color of SRW units shall be _____.
- C. Finish of SRW units shall be split-face.
- D. SRW unit faces shall be of straight geometry.
- E. SRW unit height shall be 4 inches.
- F. SRW units shall provide a minimum weight of 115 psf wall face area.
- G. SRW units shall be solid through the full depth of the unit.
- H. SRW units shall have a depth (front face to rear) to height ratio of 2:1, minimum.
- I. SRW units shall be capable of being erected with the horizontal gap between adjacent units not exceeding 1/8 inch.
- J. SRW units shall be interlocked with connection pins that provide ³/₄-inch setback or ¹/₄-inch setback from unit below (yielding a 10.6-degree or 3.6-degree cant from vertical).
- K. SRW units shall be sound and free of cracks or other defects that would interfere with the proper placing of the unit or significantly impair the strength or permanence of the structure. Any cracks or chips observed during construction shall fall within the guidelines outlined in ASTM C 1372.
- L. Concrete SRW units shall conform to the requirements of ASTM 1372 and have a minimum net average 28 days compressive strength of 3000 psi. Compressive strength test specimens shall conform to the saw-cut coupon provisions of ASTM C140.
- M. SRW units' molded dimensions shall not differ more than $\pm 1/8$ inch from that specified, as measured in accordance with ASTM C 140. This tolerance does not apply to architectural surfaces, such as split faces.

2.02 Segmental Retaining Wall Unit Connection Pins

A. SRW units shall be interlocked with VERSA-Tuff connection pins. The pins shall consist of glass-reinforced nylon made for the expressed use with the SRW units supplied.

2.03 Geosynthetic Reinforcement

A. Geosynthetic reinforcement shall consist of high-tenacity PET geogrids, HDPE geogrids, or geotextiles manufactured for soil reinforcement applications. The type, strength and placement of the geosynthetic reinforcement shall be determined by procedures outlined in this specification and the NCMA Design Manual for Segmental Retaining Walls (3rd Edition 2009) and materials shall be specified by Wall Design Engineer in their final wall plans and specifications. The manufacturers/suppliers of the geosynthetic reinforcement shall have demonstrated construction of similar size and types of segmental retaining walls on previous projects.

The geosynthetic type must be approved one week prior to bid opening. Geosynthetic types currently approved for this project are:

VERSA-Grid Geogrids

B. The type, strength and placement of the reinforcing geosynthetic shall be as determined by the Wall Design Engineer, as shown on the final, P.E.-stamped retaining wall plans.

2.04 Leveling Pad

A. Material for leveling pad shall consist of compacted sand, gravel, or combination thereof (USCS soil types GP,GW, SP, & SW) and shall be a minimum of 6 inches in depth. Lean concrete with a strength of 200-300 psi and 3 inches thick maximum may also be used as a leveling pad material. The leveling pad should extend laterally at least a distance of 6 inches from the toe and heel of the lowermost SRW unit.

2.05 Drainage Aggregate

A. Drainage aggregate shall be angular, clean stone or granular fill meeting the following gradation as determined in accordance with ASTM D422:

Sieve Size	Percent Passing
1 inch	100
3/4 inch	75-100
No. 4	0-60
No. 40	0-50
No. 200	0-5

2.06 Drainage Pipe

- A. The drainage collection pipe shall be a perforated or slotted PVC, or corrugated HDPE pipe. The drainage pipe may be wrapped with a geotextile to function as a filter.
- B. Drainage pipe shall be manufactured in accordance with ASTM F 405 or ASTM F 758.

2.07 Reinforced Backfill Soil

A. The reinforced soil material shall be free of debris. Unless otherwise noted on the final, P.E.-sealed, retaining wall plans prepared by the Wall Design Engineer, the reinforced material shall consist of the inorganic USCS soil types GP, GW, SW, SP, SM, meeting the following gradation, as determined in accordance with ASTM D422:

Sieve Size	Percent Passing
1 inch	100
No. 4	20-100
No. 40	0-60
No. 200	0-35

- B. The maximum particle size of poorly-graded gravels (GP) (no fines) should not exceed 3/4 inch unless expressly approved by the Wall Design Engineer and the long-term design strength (LTDS) of the geosynthetic is reduced to account for additional installation damage from particles larger than this maximum.
- C. The plasticity of the fine fraction shall be less than 20.
- D. The pH of the backfill material shall be between 3 and 9 when tested in accordance with ASTM G 51.

2.10 Geotextile Filter

A. Drainage geotextile shall consist of geosynthetic specifically manufactured for use as a preamble soil filter that retains soil while still allowing water to pass throughout the life of the structure. The type and placement of the geotextile filter material shall be as required by the Wall Design Engineer in their final wall plans and specifications.

PART 3: DESIGN PARAMETERS

3.01 Soil

A. The following soil parameters, as determined by the Owner's Geotechnical Engineer shall be used for the preparation of the final design:

	Unit Weight	Internal Friction	Cohesion (c)
	(γ) (pcf)	Angle (\u00f6) (degrees)	(psf)
Reinforced Fill Retained Soil Foundation Soil			0 0

(If internal friction angles are not available for the above section, the specifier can provide the USCS soil type classification for the reinforced, retained, and foundation soils and/or attach the geotechnical investigation report for this project.)

B. Should the actual soil conditions observed during construction differ from those assumed for the design, design shall be reviewed by the Wall Design Engineer at the Owner's Geotechnical Engineer's direction.

3.02 Design

- A. The design analysis for the final, P.E.-stamped retaining wall plans prepared by the Wall Design Engineer shall consider the external stability against sliding and overturning, internal stability and facial stability of the reinforced soil mass, and shall be in accordance with acceptable engineering practice and these specifications. The internal and external stability analysis shall be performed in accordance with the "NCMA Design Manual for Segmental Retaining Walls, 3rd Edition" using the recommended minimum factors of safety in this manual.
- B. External stability analysis for bearing capacity, global stability, and total and differential settlement shall be the responsibility of the Owner and the Owner's Geotechnical Engineer. The Geotechnical Engineer shall perform bearing capacity, settlement estimates, and global stability analysis based on the final wall design provided by the Wall Design Engineer and coordinate any required changes with the Wall Design Engineer.
- C. While vertical spacing between geogrid layers may vary, it shall not exceed 2.0 feet maximum in the wall design.
- D. The geosynthetic placement in the wall design shall have 100% continuous coverage parallel to the wall face. Gapping between horizontally adjacent layers of geosynthetic (partial coverage) will not be allowed.

PART 4:CONSTRUCTION

4.01 Inspection

- A. The Owner or Owner's Engineer is responsible for verifying that the materials supplied by the Contractor meet all the requirements of the specification. This includes all submittals for materials and design, qualifications and proper installation of wall system.
- B. Contractor's field construction supervisor shall have demonstrated experience and be qualified to direct all work at the site.

4.02 Excavation

- A. Contractor shall excavate to the lines and grades shown on the project grading plans. Contractor shall take precautions to minimize over-excavation. Over-excavation shall be filled with compacted infill material, or as directed by the Wall Design Engineer, at the Contractor's expense.
- B. Contractor shall verify location of existing structures and utilities prior to excavation. Contractor shall ensure all surrounding structures are protected from the effects of wall excavation. Excavation support, if required, is the responsibility of the Contractor.

4.03 Foundation Preparation

- A. Following the excavation, the foundation soil shall be examined by the Owner's Engineer to assure actual foundation soil strength meets or exceeds the assumed design bearing strength. Soils not meeting the required strength shall be removed and replaced with infill soils, as directed by the Owner's Geotechnical Engineer.
- B. Foundation soil shall be proof-rolled and compacted to 95% standard Proctor density and inspected by the Owner's Geotechnical Engineer prior to placement of leveling pad materials.

4.04 Leveling Pad Construction

- A. Leveling pad shall be placed as shown on the final, P.E.-sealed retaining wall plans with a minimum thickness of 6 inches. The leveling pad should extend laterally at least a distance of 6 inches from the toe and heel of the lowermost SRW unit.
- B. Granular leveling pad material shall be compacted to provide a firm, level bearing surface on which to place the first course of units. Well-graded sand can be used to smooth the top 1/4 inch to 1/2 inch of the leveling pad. Compaction will be with mechanical plate compactors to achieve 95% of maximum standard Proctor density (ASTM D 698).

4.05 SRW Unit Installation

- A. All SRW units shall be installed at the proper elevation and orientation as shown on the final, P.E.-sealed wall plans and details or as directed by the Wall Design Engineer. The SRW units shall be installed in general accordance with the manufacturer's recommendations. The specifications and drawings shall govern in any conflict between the two requirements.
- B. First course of SRW units shall be placed on the leveling pad. The units shall be leveled side-to-side, front-to-rear and with adjacent units, and aligned to ensure intimate contact with the leveling pad. The first course is the most important to ensure accurate and acceptable results. No gaps shall be left between the front of adjacent units. Alignment may be done by means of a string line or offset from base line to the back of the units.
- C. All excess debris shall be cleaned from top of units and the next course of units installed

on top of the units below.

- D. Two VERSA-Tuff connection pins shall be inserted through the pin holes of each uppercourse unit into receiving slots in lower-course units. Pins shall be fully seated in the pin slot below. Units shall be pushed forward to remove any looseness in the unit-to-unit connection.
- E. Prior to placement of next course, the level and alignment of the units shall be checked and corrected where needed.
- F. Layout of curves and corners shall be installed in accordance with the wall plan details or in general accordance with SRW manufacturer's installation guidelines. Walls meeting at corners shall be interlocked by overlapping successive courses.
- G. Procedures C. through F. shall be repeated until reaching top of wall units, just below the height of the cap units. Geosynthetic reinforcement, drainage materials, and reinforced backfill shall be placed in sequence with unit installation as described in Section 4.06, 4.07 and 4.08.

4.06 Geosynthetic Reinforcement Placement

- A. All geosynthetic reinforcement shall be installed at the proper elevation and orientation as shown on the final P.E.-sealed retaining wall plan profiles and details, or as directed by the Wall Design Engineer.
- B. At the elevations shown on the final plans, (after the units, drainage material and backfill have been placed to this elevation) the geosynthetic reinforcement shall be laid horizontally on compacted infill and on top of the concrete SRW units, to within 1 inch of the front face of the unit below. Embedment of the geosynthetic in the SRW units shall be consistent with SRW manufacturer's recommendations. Correct orientation of the geosynthetic reinforcement shall be verified by the Contractor to be in accordance with the geosynthetic manufacturer's recommendations. The highest-strength direction of the geosynthetic must be perpendicular to the wall face.
- C. Geosynthetic reinforcement layers shall be one continuous piece for their entire embedment length. Splicing of the geosynthetic in the design-strength direction (perpendicular to the wall face) shall not be permitted. Along the length of the wall, horizontally adjacent sections of geosynthetic reinforcement shall be butted in a manner to assure 100% coverage parallel to the wall face.
- D. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum of 6 inches of backfill is required prior to operation of tracked vehicles over the geosynthetic. Turning should be kept to a minimum. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds (less than 5 mph).

E. The geosynthetic reinforcement shall be free of wrinkles prior to placement of soil fill. The nominal tension shall be applied to the reinforcement and secured in place with staples, stakes or by hand tensioning until reinforcement is covered by 6 inches of fill.

4.07 Drainage Aggregate and Drainage Material Placement

- A. Drainage aggregate shall be installed to the line, grades and sections shown on the final P.E.-sealed retaining wall plans. Drainage aggregate shall be placed to the minimum thickness shown on the construction plans between and behind units (a minimum of 1 cubic foot for each exposed square foot of wall face unless otherwise noted on the final wall plans).
- B. Drainage collection pipes shall be installed to maintain gravity flow of water outside the reinforced-soil zone. The drainage collection pipe shall be installed at the locations shown on the final construction drawings. The drainage collection pipe shall daylight into a storm sewer or along a slope, at an elevation below the lowest point of the pipe within the aggregate drain. Drainage laterals shall be spaced at a maximum 50-foot spacing along the wall face.

4.08 Backfill Placement

- A. The reinforced backfill shall be placed as shown in the final wall plans in the maximum compacted lift thickness of 8 inches and shall be compacted to a minimum of 95% of standard Proctor density (ASTM D 698) at a moisture content within -1% point to +3% points of optimum. The backfill shall be placed and spread in such a manner as to eliminate wrinkles or movement of the geosynthetic reinforcement and the SRW units.
- B. Only hand-operated compaction equipment shall be allowed within 3 feet of the back of the wall units. Compaction within the 3 feet behind the wall units shall be achieved by at least three passes of a lightweight mechanical tamper, plate, or roller.
- C. At the end of each day's operation, the Contractor shall slope the last level of backfill away from the wall facing and reinforced backfill to direct water runoff away from the wall face.
- D. At completion of wall construction, backfill shall be placed level with final top of wall elevation. If final grading, paving, landscaping and/or storm drainage installation adjacent to the wall is not placed immediately after wall completion, temporary grading and drainage shall be provided to ensure water runoff is not directed at the wall nor allowed to collect or pond behind the wall until final construction adjacent to the wall is completed.

4.09 SRW Caps

A. SRW caps shall be properly aligned and glued to underlying units with VERSA-LOK adhesive, a flexible, high-strength concrete adhesive. Rigid adhesive or mortar are not acceptable.

B. Caps shall overhang the top course of units by 3/4 inch to 1 inch. Slight variation in overhang is allowed to correct alignment at the top of the wall.

4.10 Construction Adjacent to Completed Wall

A. The Owner or Owner's Representative is responsible for ensuring that construction by others adjacent to the wall does not disturb the wall or place temporary construction loads on the wall that exceed design loads, including loads such as water pressure, temporary grades, or equipment loading. Heavy paving or grading equipment shall be kept a minimum of 3 feet behind the back of the wall face. Equipment with wheel loads in excess of 150 psf live load shall not be operated within 10 feet of the face of the retaining wall during construction adjacent to the wall. Care should be taken by the General Contractor to ensure water runoff is directed away from the wall structure until final grading and surface drainage collection systems are completed.

END OF SECTION

Public Source:

Agenda Item No:



To: City Council From: City Manager and Stat **Council Meeting Date:** Apr 7, 2014

Allowing Columbia Properties II, LLC to Construct a Private Storm Sewer, Stairs, Tree Grates, and a **Re:** Modular Block Support System for Transformers and Switchgear within a Portion of City Right of Way

EXECUTIVE SUMMARY:

Staff has prepared for Council consideration legislation authorizing the City Manager to execute a Right of Use Permit with Columbia Properties II, LLC to construct, operate, and maintain a private storm sewer, stairs, tree grates, and a modular block support system for transformers and switchgear within a portion of the right of way of S Fifth Street, Conley Avenue, and S Fourth Street.

DISCUSSION:

Columbia Properties II, LLC is proposing to build a student housing complex at 410 Conley Avenue, and has requested to construct, operate, and maintain a private storm sewer, stairs, tree grates, and a modular block support system for transformers and switchgear that would extend into City right of way of S Fifth Street, Conley Avenue, and S Fourth Street (see attached diagrams). The Right of Use Permit stipulates the responsibilities and duties of Columbia Properties II, LLC and is similar to other right of use permits granted for this type of project.

With the student housing complex at 410 Conley Avenue that Columbia Properties II, LLC is proposing, there are also canopies that will be constructed within the right of way of S Fifth Street and Conley Avenue. The canopies are enforced by section 29-26, b-3 (see attached diagrams).

FISCAL IMPACT:

None

VISION IMPACT:

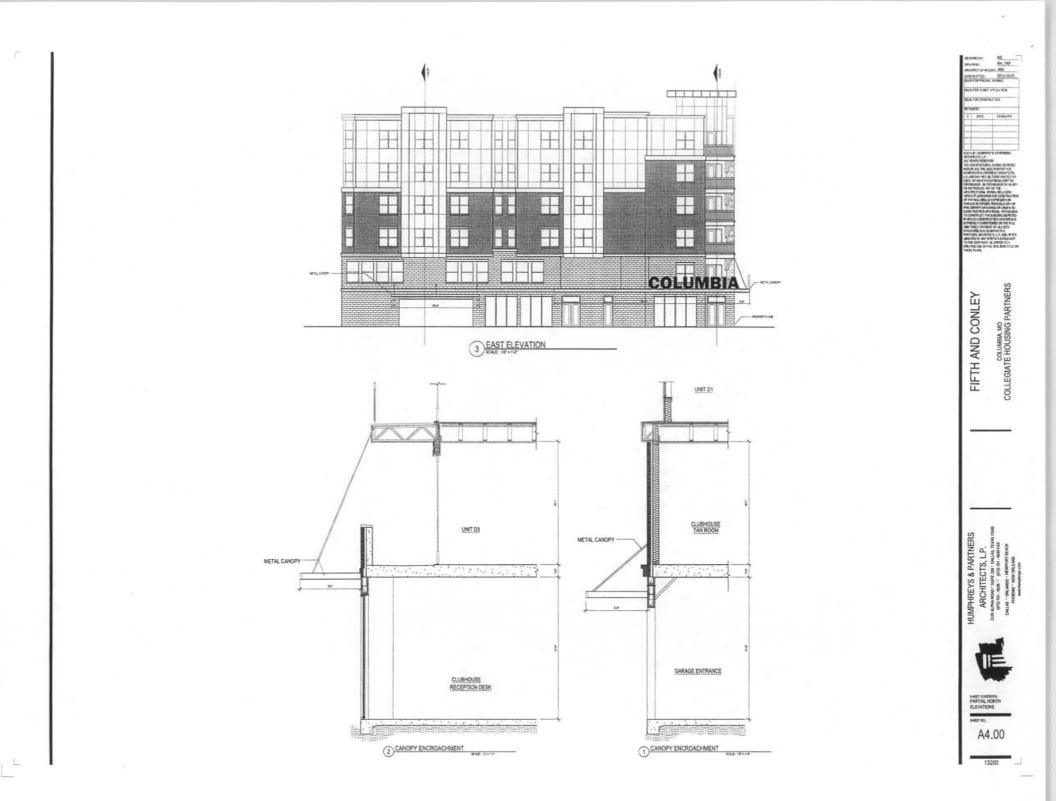
http://www.gocolumbiamo.com/Council/Meetings/visionimpact.php

None

SUGGESTED COUNCIL ACTIONS:

Approve the legislation authorizing the City Manager to execute a right of use permit with Columbia Properties II, LLC to construct, operate, and maintain a private storm sewer, stairs, tree grates, and a modular block support system for transformers and switchgear in the City right of way of S Fifth Street, Conley Avenue, and S Fourth Street.

		FISCAL and V	VISION NOTE	S:	
City Fiscal Enter all the		Program Imp	act	Mandates	
City's current net FY cost	\$0.00	New Program/ Agency?	No	Federal or State mandated?	No
Amount of funds already appropriated	\$0.00	Duplicates/Expands an existing program?	No	Vision Implementation	n impact
Amount of budget amendment needed	\$0.00	Fiscal Impact on any local political subdivision?	No	Enter all that ap Refer to Web si	•
Estimated 2 yea	ar net costs:	Resources Rec	luired	Vision Impact?	No
One Time	\$0.00	Requires add'I FTE Personnel?	No	Primary Vision, Strategy and/or Goal Item #	
Operating/ Ongoing	\$0.00	Requires add'I facilities?	No	Secondary Vision, Strategy and/or Goal Item #	
		Requires add'l capital equipment?	No	Fiscal year implementation Task #	



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Address Addres	HUMPHEEYS & PARTNERS ARCHITECTS, L.P. IMAMMADO BULG, TSAA 5140 IMAMMADO BULG, TSAA 5140 IMAMMADO BULG, TSAA 5140 IMAMMADO BULG, L.P.	FIFTH AND CONLEY COLLEGIATE HOUSING PARTNERS	AND P 10 10 10 10 10 10 10 10 10 10 10 10 10