

City of Richmond Department of Planning & Development Review

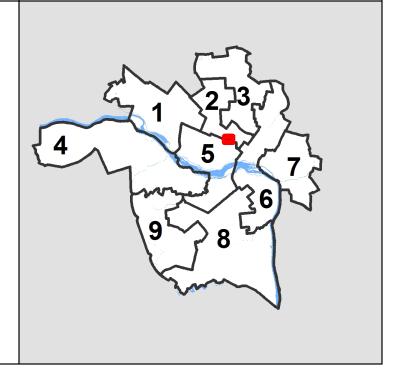
Encroachment

LOCATION: Linden St between Floyd & Grove Ave

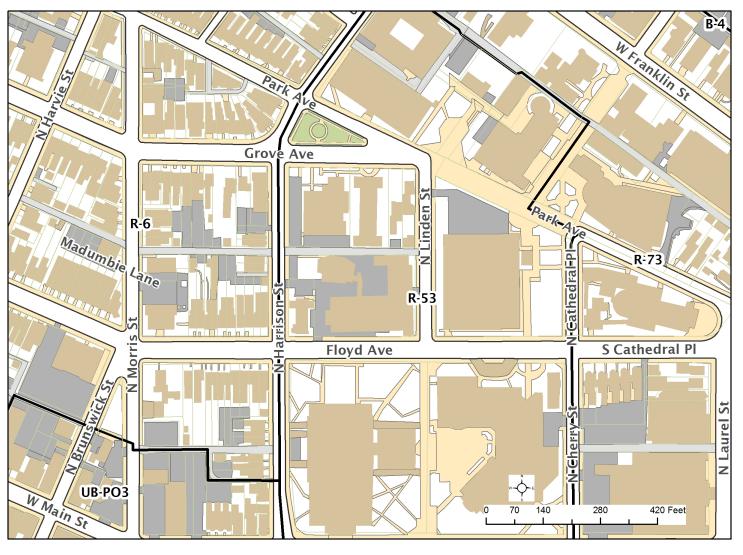
COUNCIL DISTRICT: 2

PROPOSAL: Streetscape encroachments as part of

a narrowing of Linden Street



For questions, please contact Kathleen Onufer at 646-5207 or Kathleen.Onufer@richmondgov.com





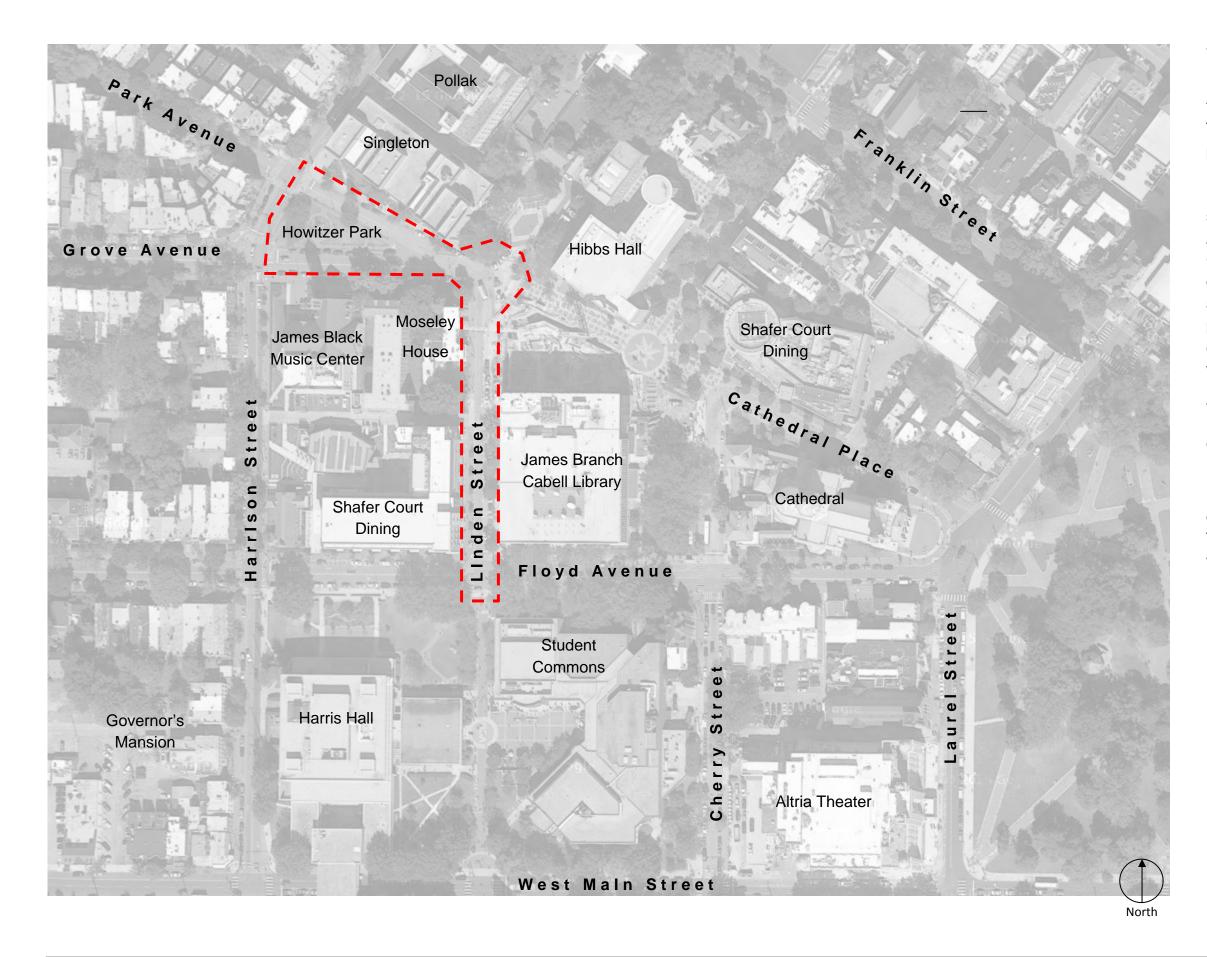
City of Richmond Urban Design Committee Submittal

May 19, 2016

Linden Street Pedestrian Commons

Monroe Park Campus
Virginia Commonwealth University
Richmond, Virginia





VCU is proposing streetscape improvements along Linden Street between Floyd Avenue and Grove Avenue.

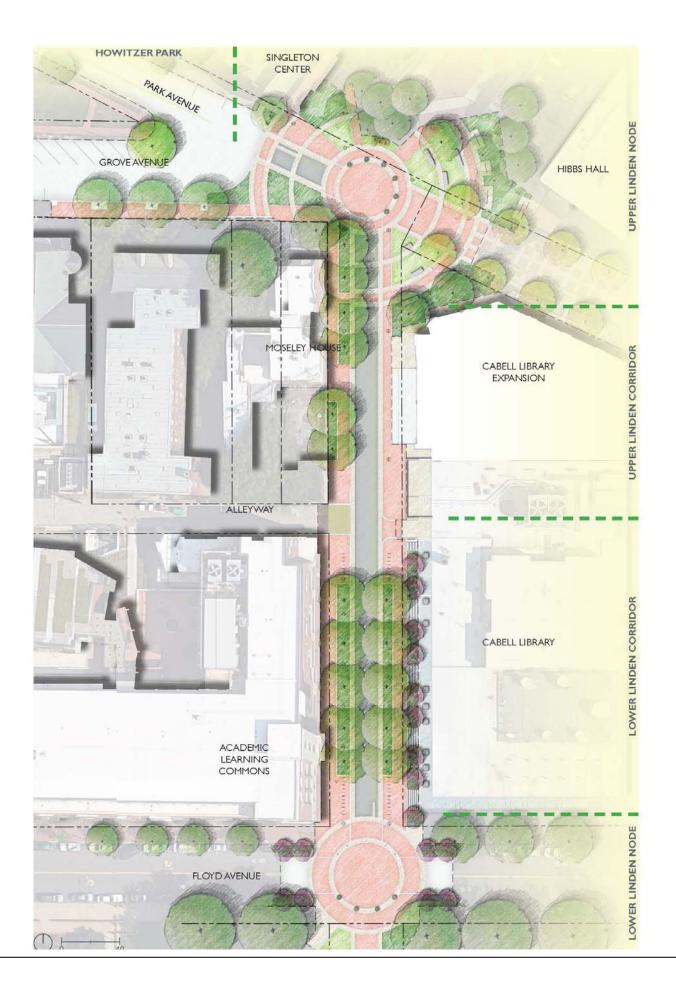
This project proposed to remove the short term parking along Linden and to add parking around Howitzer Park resulting in no net loss of Fan District Zone 1 spaces. Traffic will remain one way southbound on Linden and two way traffic on park Avenue between Harrison and Linden. Traffic on Grove between Harrison and Linden will become one way east bound with angled back in parking along Howitzer Park. A contra flow bike lane is proposed for Linden. The existing street width from curb to curb is 30 feet. The new curb to curb width will be 21 feet.

A raised brick paver speed table is proposed at the intersection of Linden and Floyd to help slow traffic consistent with the city's Bike Boulevard improvements.

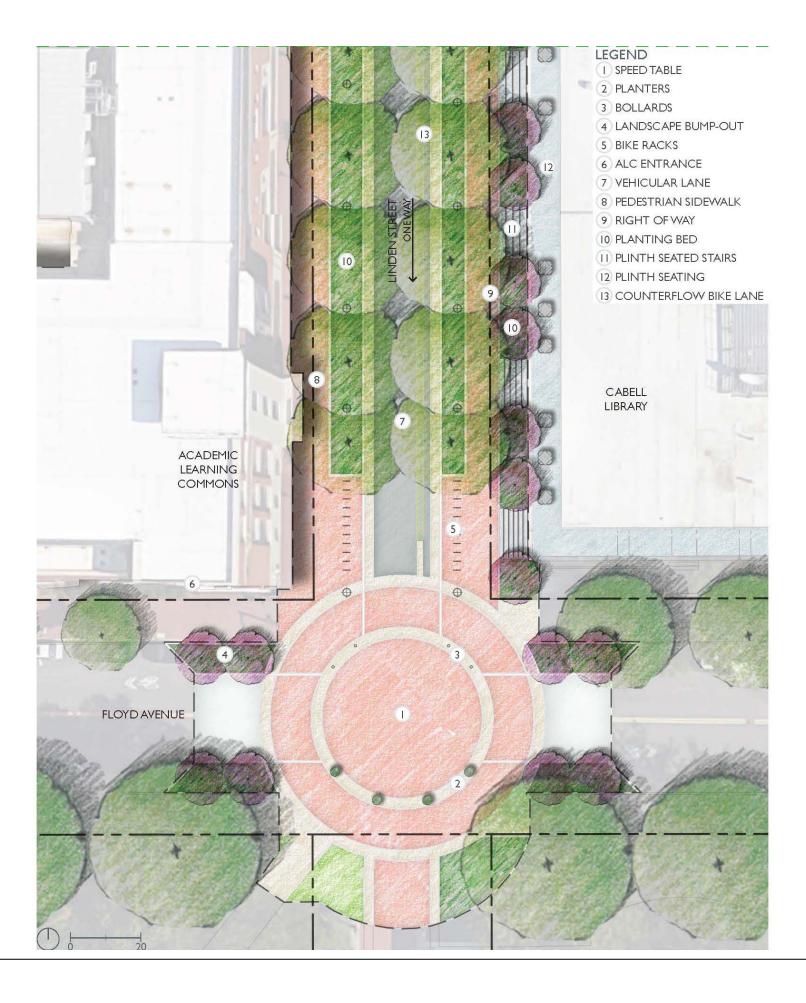
New lighting will consist of the VCU standard ornamental fixture using LED as the light source. Three existing cobra head lights on wooden poles will be removed as part of the project.

Project Narrative

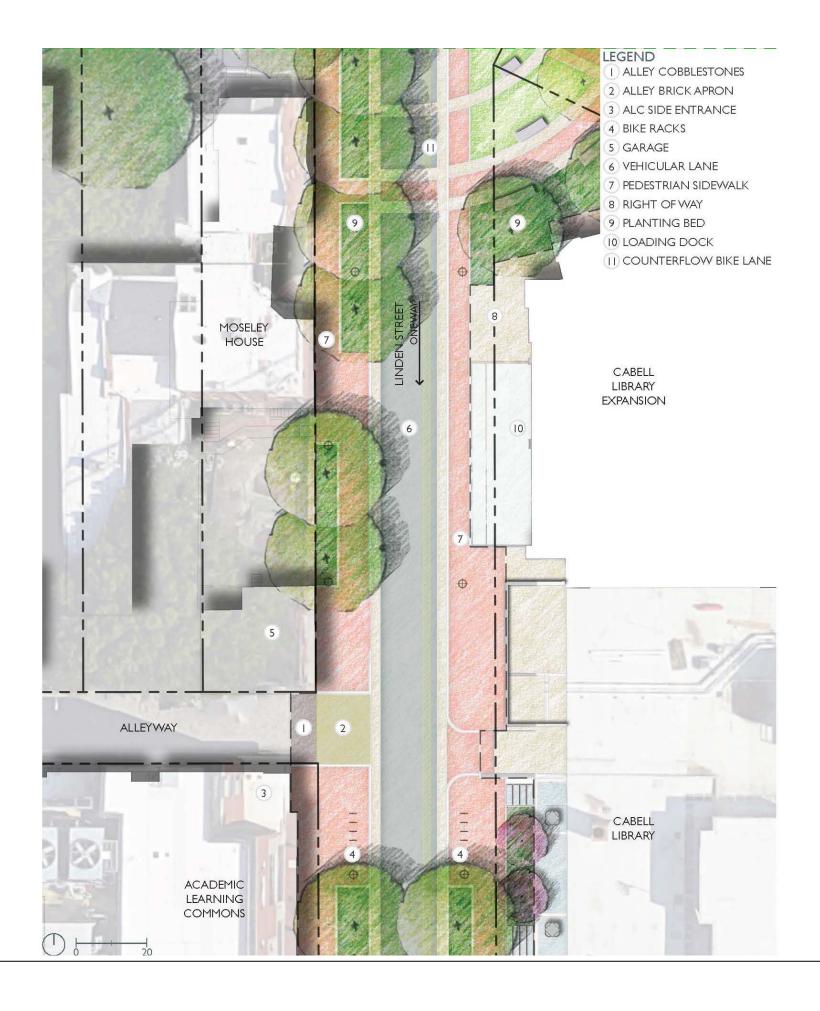








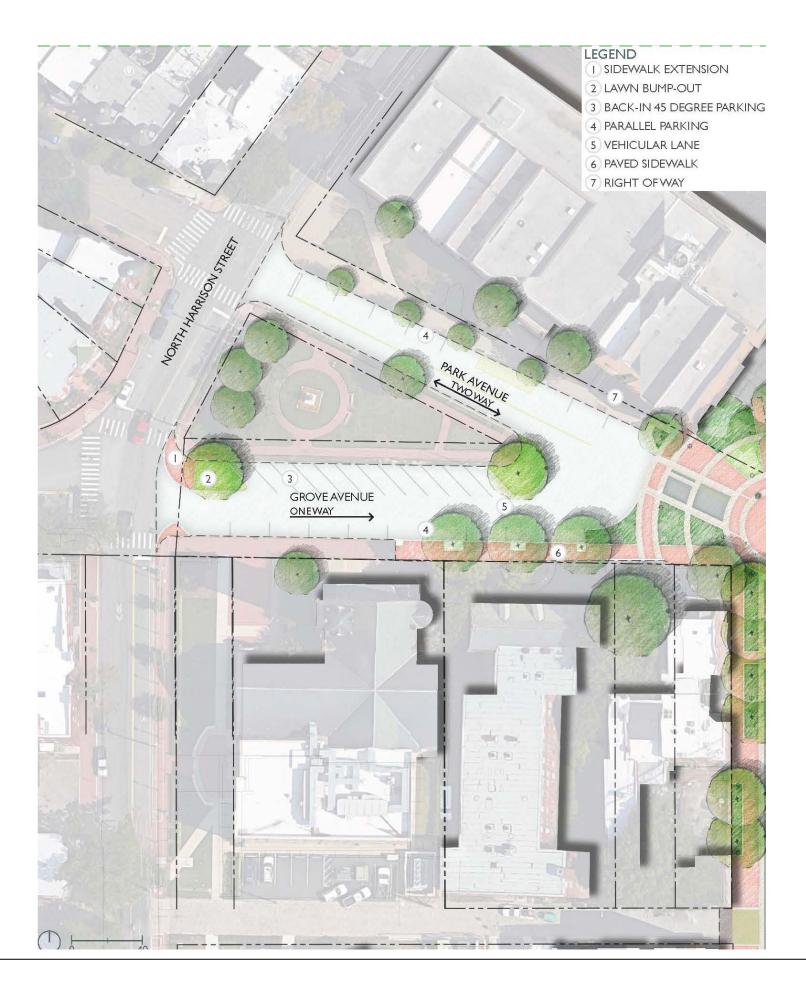




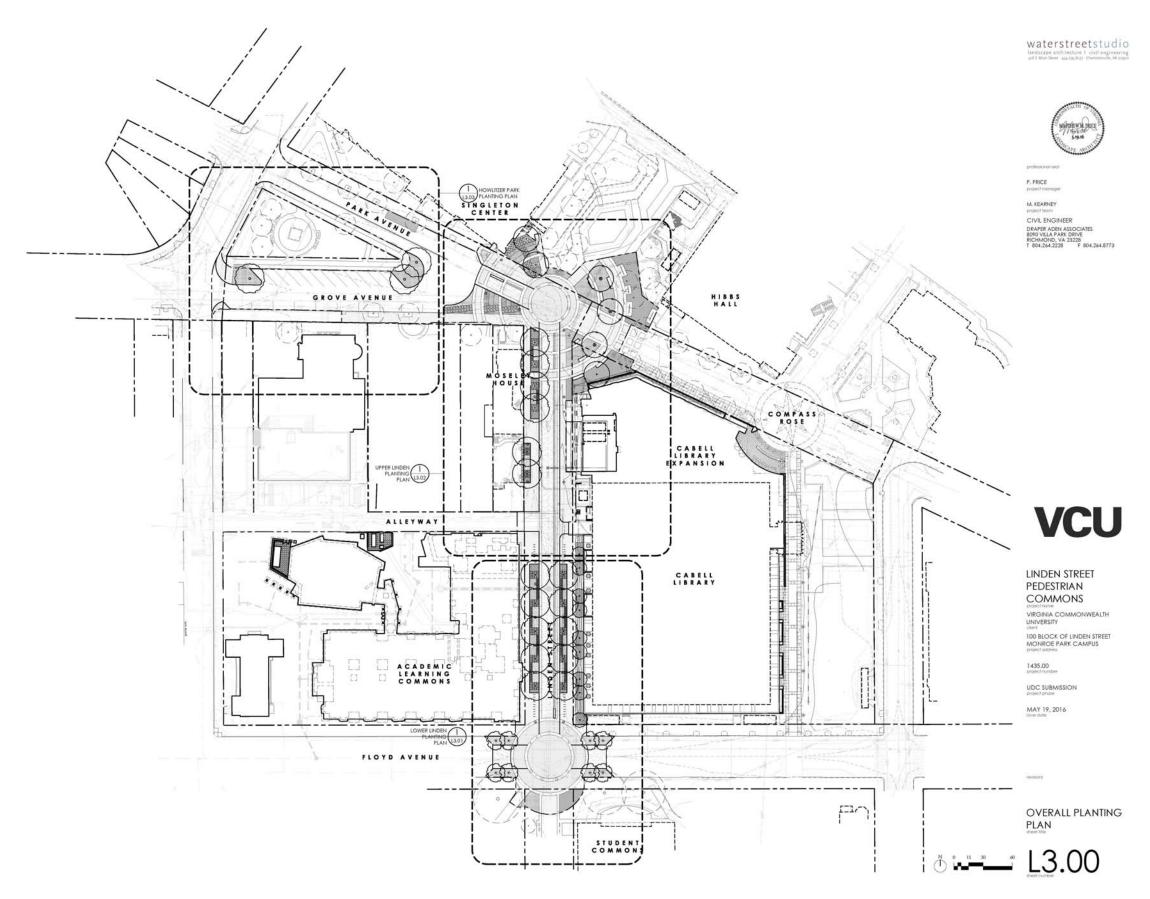






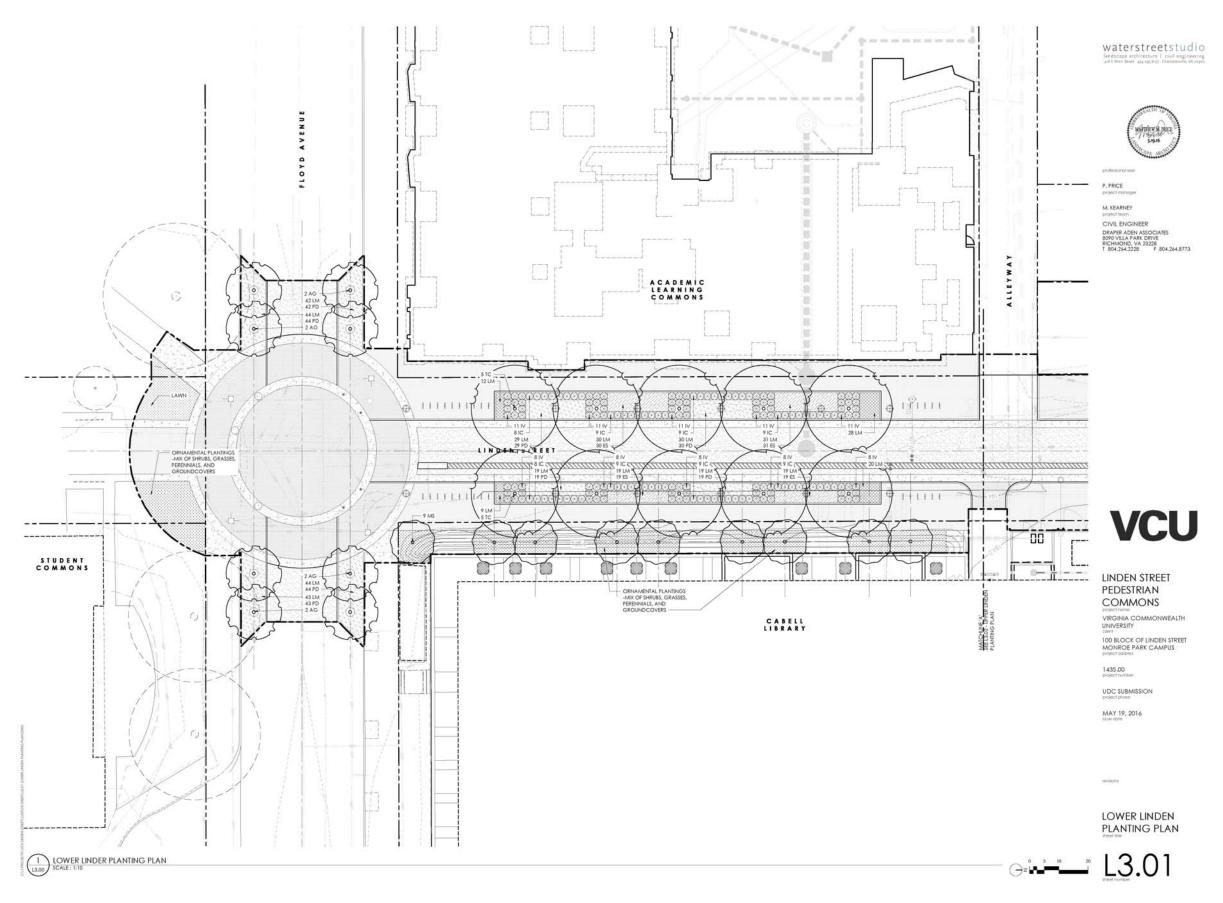




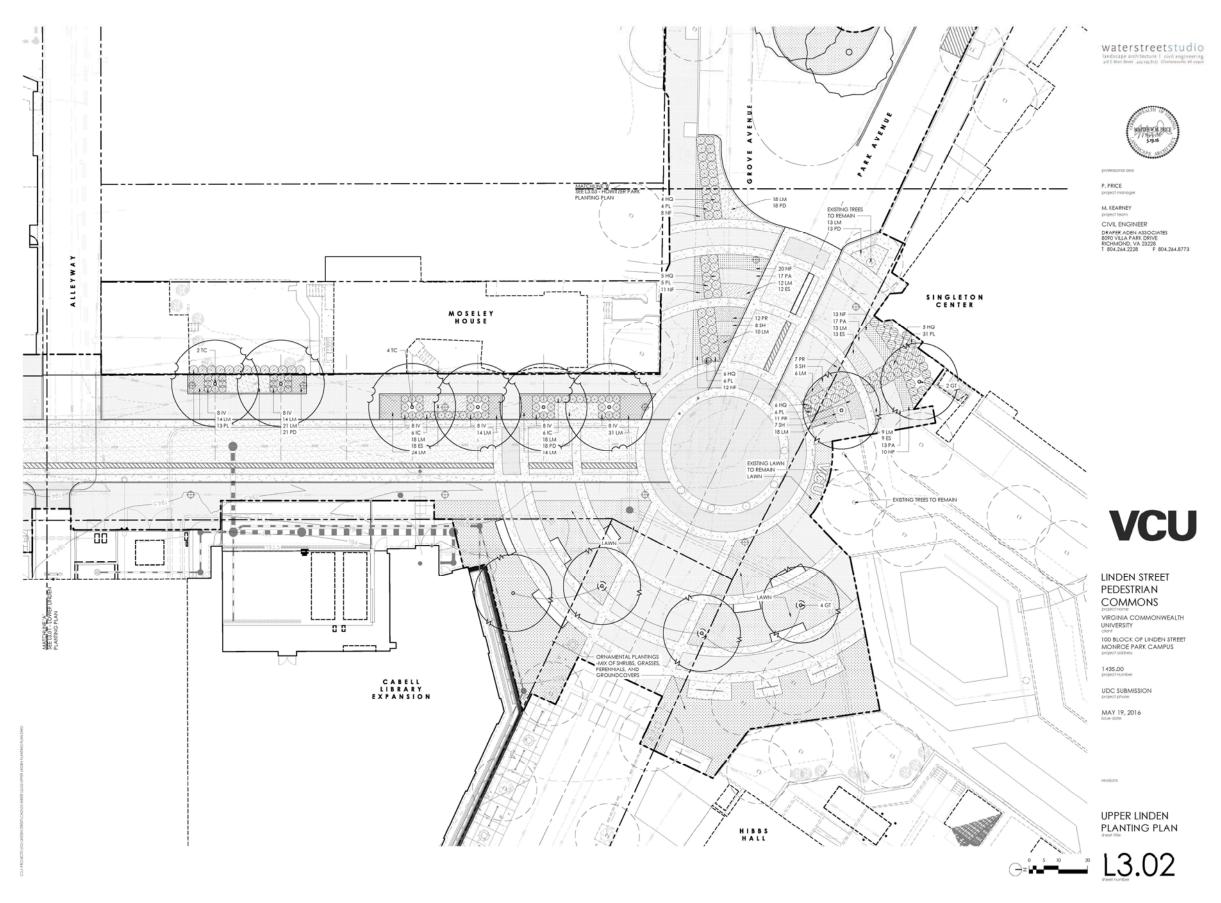




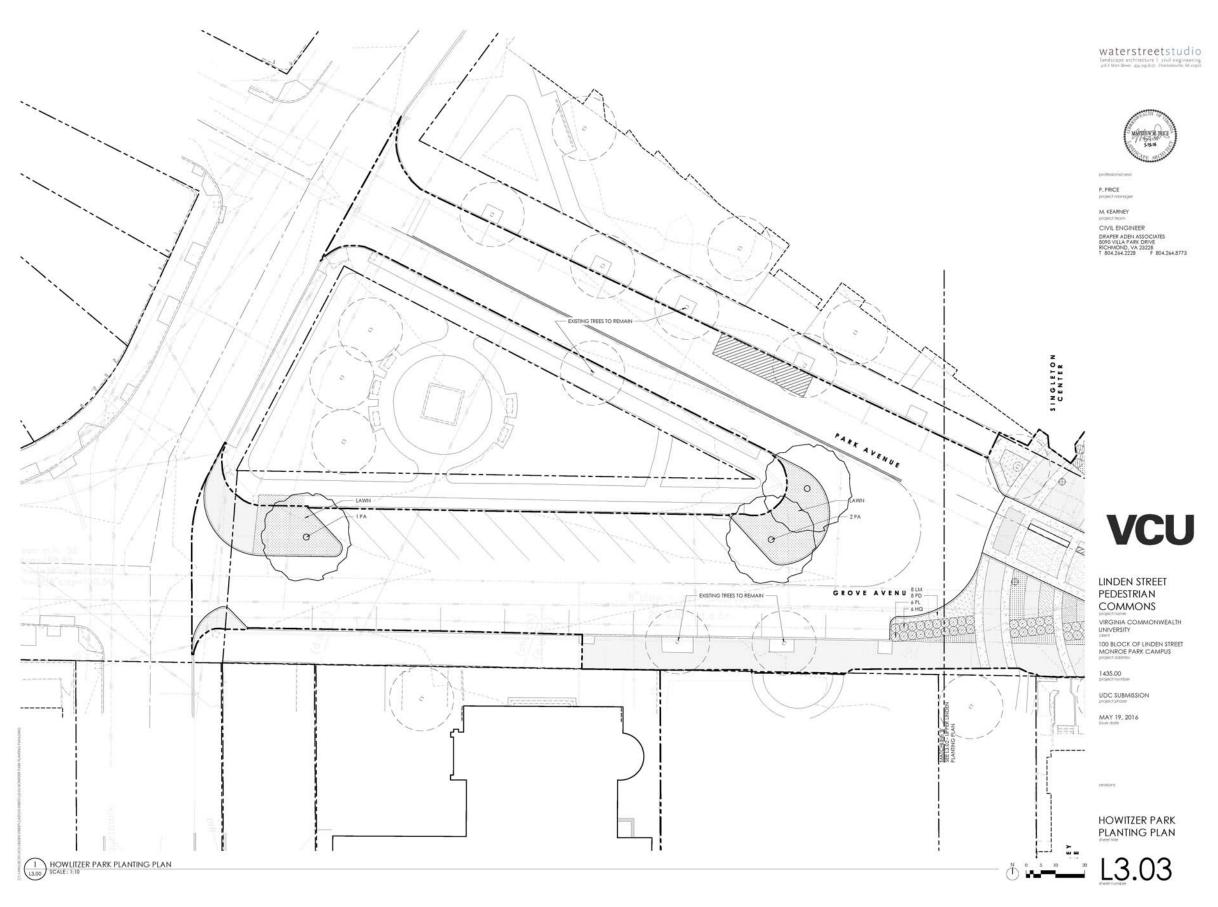
Planting Plan - Overall



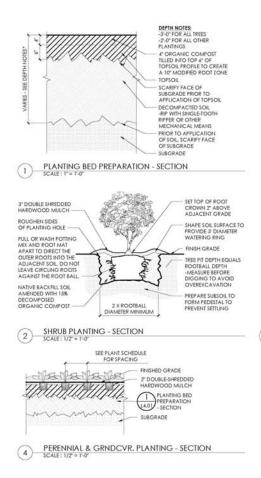


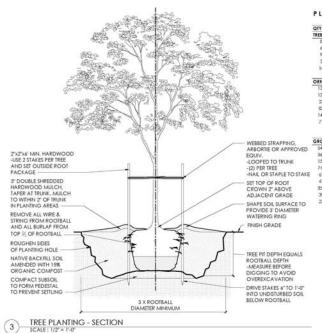












PLANT SCHEDULE

QTY.	SYMBOL	Scientific Name	Common Name	Size	Spacing	Root	Notes
TREES		American Company Company	A Company of the Comp		***************************************		A contract
8	AG	Ametanchier x grandiflora 'Autumn Brittiance'	Serviceberry	8 Ht.	AS SHOWN	888	3-5 stems
6	GT	Gleditsia triacanthos var. inermis "Shademaster"	Thorniess Honeylocust	21/2 Ca.	AS SHOWN	888	5 branching height, straight leade
9	MS	Magnolia x soulangeana	Saucer Magnafa	8' Ht.	AS SHOWN	888	4 Branching height, 3-5 stems
3	PA	Piatanus x acerifolia	London Fignetree	21/2 Cd.	AS SHOWN	885	5' branching height, straight leads
16	TC	filia cordata 'Greenspire'	Little Leaf Linden	21/2 Cal.	AS SHOWN	888	5 branching height, straight leads
	MENTAL GI	RASSES & SHRUBS					
136		Ornamental Plantings - Shrubs		24" Ht.	36° O.C.	3 Gal.	
132		Ornamental Plantings - Grasses		18" Ht.	30° O.C.	3 Gal.	
32	HQ	Hydrangea quercifolia 'Pee Wee'	Owarf Ookleaf Hydrangea	18" 111.	36" O.C.	3 Gal.	
82	IC.	flex crenata 'Soft Touch'	Soft Touch Holly	18" Ht.	30" O.C.	3 Gal.	
143	IV	Itea virginica 'Little Henry'	Little Henry Sweetspire	18" Ht.	30" O.C.	3 Gat.	
21	PL.	Prunus laurocevasus "Offo Luyken"	Otto Luyken Laurel	18" Ht.	36° O.C.	3 Gal.	
GROU	NDCOVER	S & PERENNIALS					
545		Ornamental Plantings - Perennials			18" O.C.	3 Q1.	
363		Ornamental Mantings - Groundcovers			16" O.C.	3 QT.	
151	85	Echibeckia summerina Yellow	Echibeckia Summerina Yellow		18" O.C.	3.07	
712	LM.	Liriope muscari 'Majestic'	Majestic Liviuri		18" O.C.	3 Q1	
67	NF	Nepeta x faquienii 'Walker's Low'	Walkers Low Colmini		24 O.C.	3 QT.	
47	PA	Pennisetum alopercuroides 'Hamelin'	Dwart Fountain Grass		24 O.C.	1 GAL	
351	PO .	Fenstemon digitalis Husker Red'	Beardfangue		18" O.C.	3 Q1	
30	PR	Perovskia atriplicifolia 'Little Spire'	Russian Sage		24° O.C.	3.01	
22	SH	Sporobolus heterolepis	Prairie Dropseed		24° O.C.	1 GAL	

waterstreetstudio



professional si

P. PRICE

M. KEARNEY project learn

CIVIL ENGINEER
DRAPER ADEN ASSOCIATES
8090 VILLA PARK DRIVE
RICHMOND, VA 23228
I 804.264.2228 F 804.264.8773

PLANTING NOTES

- CONTRACTOR SHALL VERIFY PLANT MATERIAL QUANTITIES SOWN ON PLAN WITH TOTALS IN PLANTING SCHEDULE, NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO FINAL BIDDING, UNITS PRICES BE SUBMITTED AS PART OF FINAL BID.
- ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE (1) FULL YEAR AND SHALL BE IN A HEALTHY
 GROWING CONDITION, PLANT MATERIALS WHICH DO NOT FUFFIL THIS GUARANTEE SHALL BE
 BEPLACED AT NO COST TO THE OWNER, BEPLACEMENT SHALL BE GUARANTEED THROUGHOUT THE
 ORIGINAL GUARANTEE PERIOD. PLANTS THAT DIE SHALL BE REPLACED MIMEDIATELY.
- 3. CONTRACTOR IS RESPONSIBLE FOR WATERING, WEEDING, PEST CONTROL, AND FERTILIZATION OF ALL PLANT MATERIAL LIMIL, 0.1 UPON FINAL ACCEPTANCE IS SSUED BY LANDSCAPE ARCHITECT AND/OR OWNER, AND b.) THE CONTRACTOR PROVIDES OWNER WRITTEN NOTIFICATION OF ALL MAINTENANCE NEEDS OF ALL SCOPE ASSOCIATED WITH THE FLANTING PLANS) CONTRACTOR COMMENTS. CONTRACTOR SHALL NOT ASSUME BRIGATION SYSTEM IS FULLY OPERATIONAL AT THE COMPLETION OF THE PLANTING INSTALLATION.
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISSURLLY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR LOCATION OF ALL UTILITY LINES, TREES SHALL BE LOCATED A MINIMUM OF R FEET PROM SEWER/MATER CONNECTIONS, NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
- THE LANDSCAPE ARCHITECT IS THE OWNER'S REPRESENTATIVE AND SHALL BE THE APPROVING AUTHORITY FOR INFORMATION PROVIDED WITHIN THESE PLANS AND SPECIFICATIONS.
- ALL PLANT MATERIALS, TOPSOIL, MULCH, FERTILIZERS, SOIL AMBIDMENTS, PLANTING SUPPLIES, AND METHODS SHALL BE SUBJECT TO LANDSCAPE ARCHITECTS APPROVAL REJECTED MATERIALS SHALL BE REMOVED FROM THE SITE WITHOUT DELAY AT NO EXPENSE TO THE OWNER.
- CONTRACTOR SHALL LAYOUT AND MARK LOCATION FOR ALL PLANT MATERIAL, AND IMPROVEMENTS SHOWN AND SHALL REQUEST IN FIELD APPROVAL FROM LANDSCAPE ARCHITECT.
- 8. ALL PLANT MATERIALS AND PLANTING METHODS SHALL CONFORM TO A.A.N. STANDARDS,

- . BEDS TO CONTAIN SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, OR PERENNIALS SHALL BE TILLED TO A DEPTH OF 12" AND THE SOIL CONDITIONED BY ADDING 3" OF A U.S. COMPOSTING COUNCIL ADRENUES COLUMNITY.
- ALL PLANTING BED AREAS SHALL BE COVERED WITH A 3" MINIMUM LAYER OF MEDIUM TEXTURED SHREDDED HARDWOOD MULCH UNLESS OTHERWISE NOTED.
- ALL SUBSTITUTIONS OF PLANT MATERIAL SHALL BE REQUESTED IN WRITING TO THE LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- 12. ALL PLANTING OPERATIONS SHALL BE UNDER THE SUPERVISION OF AN EXPERIENCED PLANTSMAN.
- 13. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO SELECT PLANT MATERIALS IN THE NURSERY.
- 14. FOR TREES BALLED IN WIRE BASKETS, CUT AND REMOVE TOP AND SIDES OF BASKET AFTER INSTALLATION.
- LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT AND PLANTS AND MATERIALS THAT ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION, AS WELL AS PLANTS AND MATERIALS THAT DO NOT CONFORM TO A.A.Y. STANDARDS.
- 16. SOIL SHALL BE FREE OR ALL WEEDS AND ROCKS GREATER THAN 1" IN DIAMETER.
- 17. PLANT SIZES, QUANTITIES, AND SPECIES WILL BE CHECKED BY MUNICIPALITY INSPECTION FOR COMPULANCE WITH PLANT SCHEDULE AS APPROVED BY THE MUNICIPALITY. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DELAY IN ISSUANCE OF CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY RESULTING FROM UNAUTHORIZED SUBSTITUTIONS OF DOWNSIZING.
- 18. UP ON COMPLETION OF LANDSCAPE INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR WHO WILL VERIFY COMPLETENESS, INCLUDING THE REPLACEMENT OF ALL DEAD PLANT MATERIAL, AND SCHEDULE A RINAL INSPECTION FOR ACCEPTANCE BY OWNER.
- 19. CONTRACTOR SHALL REMOVE TREE STAKING AT THE END OF THE ONE YEAR WARRANTEE PERIOD.

VCU

LINDEN STREET PEDESTRIAN COMMONS

VIRGINIA COMMONWEALTH UNIVERSITY

100 BLOCK OF LINDEN STREET MONROE PARK CAMPUS

1435.00 project rumber

UDC SUBMISSION

MAY 19, 2016

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PLANT SCHEDULE, NOTES, & DETAILS

L4.00

Plant Schedule

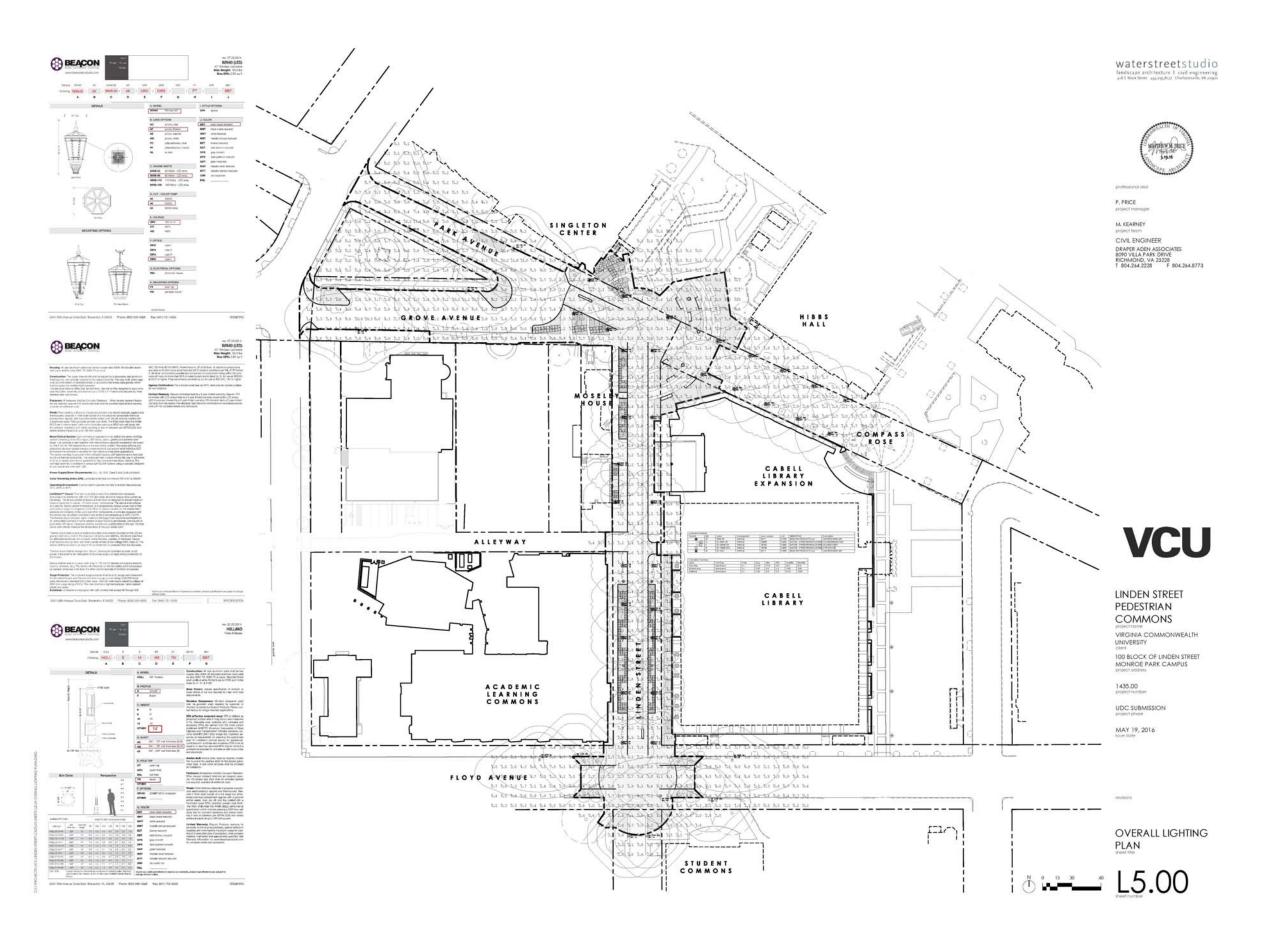
Linden Street Pedestrian Commons May 19, 2016



PLANT SCHEDULE

QTY.	SYMBOL	. Scientific Name	Common Name	Size	Spacing	Root	Notes
TREES					*	,,	
8	AG	Amelanchier x grandiflora 'Autumn Brilliance'	Serviceberry	8' Ht.	as shown	B&B	3-5 stems
6	GT	Gleditsia triacanthos var. inermis 'Shademaster'	Thornless Honeylocust	2 1/2" Cal.	as shown	B&B	5' branching height, straight leader
9	MS	Magnolia x soulangeana	Saucer Magnolia	8' Ht.	as shown	B&B	4' Branching height, 3-5 stems
3	PA	Platanus x acerifolia	London Planetree	2 1/2" Cal.	as shown	B&B	5' branching height, straight leader
16	TC	Tilia cordata 'Greenspire'	Little Leaf Linden	2 1/2" Cal.	as shown	B&B	5' branching height, straight leader
ORNA	MENTAL G	RASSES & SHRUBS					
136		Ornamental Plantings - Shrubs		24" Ht.	36" O.C.	3 Gal.	
132		Ornamental Plantings - Grasses		18" Ht.	30" O.C.	3 Gal.	
32	HQ	Hydrangea quercifolia 'Pee Wee'	Dwarf Oakleaf Hydrangea	18" Ht.	36" O.C.	3 Gal.	
82	IC	llex crenata 'Soft Touch'	Soft Touch Holly	18" Ht.	30" O.C.	3 Gal.	
143	IV	Itea virginica 'Little Henry'	Little Henry Sweetspire	18" Ht.	30" O.C.	3 Gal.	
71	PL	Prunus laurocerasus 'Otto Luyken'	Otto Luyken Laurel	18" Ht.	36" O.C.	3 Gal.	
GROUN	NDCOVER	S & PERENNIALS					
545		Ornamental Plantings - Perennials			18" O.C.	3 QT.	*
363		Ornamental Plantings - Groundcovers			18" O.C.	3 QT.	
151	ES	Echibeckia summerina 'Yellow'	Echibeckia Summerina Yellow		18" O.C.	3 QT.	
712	LM	Liriope muscari 'Majestic'	Majestic Lilyturf		18" O.C.	3 QT.	
67	NF	Nepeta x faassenii 'Walker's Low'	Walkers Low Catmint		24" O.C.	3 QT.	
47	PA	Pennisetum alopercuroides 'Hamelin'	Dwarf Fountain Grass		24" O.C.	1 GAL	
351	PD	Penstemon digitalis 'Husker Red'	Beardtongue		18" O.C.	3 QT.	
30	PR	Perovskia atriplicifolia 'Little Spire'	Russian Sage		24" O.C.	3 QT.	
22	SH	Sporobolus heterolepis	Prairie Dropseed		24" O.C.	1 GAL	









Benches



8-7 Sand Buff



Planters Bike Racks



Victor Stanley Manufacturer: Catalog No: RB-28 - 6' Length

w/ center arm

Color: Black

Manufacturer: Timberform Renaissance Catalog No.

2806-6 - 6' Bench w/ center arm

Color: Black

Manufacturer: Keystone Ridge Designs P26C' 6' Pullman w/ Catalog No.

center arm

Color: Black



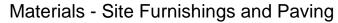
Brick Pavers

Product. Pathway Size 4" x 8" x 2 1/4" Full Range Color: **VEHICULAR AREAS** Pine Hall Manufacturer: Product: English Edge 4" x 8" x 2 3/4" Size Color: Full Range CROSSWALK AREAS Pine Hall Manufacturer: English Edge Product: 4" x 8" x 2 3/4" Size Color: Full Range

Pine Hall

PEDESTRIAN AREAS

Manufacturer:









rev. 07.24.2014 WIN40 (LED) 40" Windsor Luminaire Max Weight: 50.0 lbs





14

C

A. MODEL HOLL Ø4" Holland

B. PROFILE

OTHER

G. COLOR

BBT

BMT

WHT

мвт

BZT

DBT

GYS

DPS

GNT

MST

MTT

OWI

RAL

change without notice.

• 3

. 2

AASHTO 2001 wind zones (mph)

90 100 110 120 130 140 150

16' 5.1 3.6 2.6 1.8 1.5 1.1 0.9

.226" 16' 5.8 4.2 3.1 1.2 0.0 0.0 0.0

.226" 18' 4.3 3.0 2.0 1.3 1.0 0.7 0.5

.125" 10' 6.3 4.8 3.6 2.7 2.0 1.5 1.0

Consult factory for structural approval prior to ordering poles. Warranty void if pole is cut, welded, drilled or otherwise modified outside Beacon

4G

4M

smooth

fluted

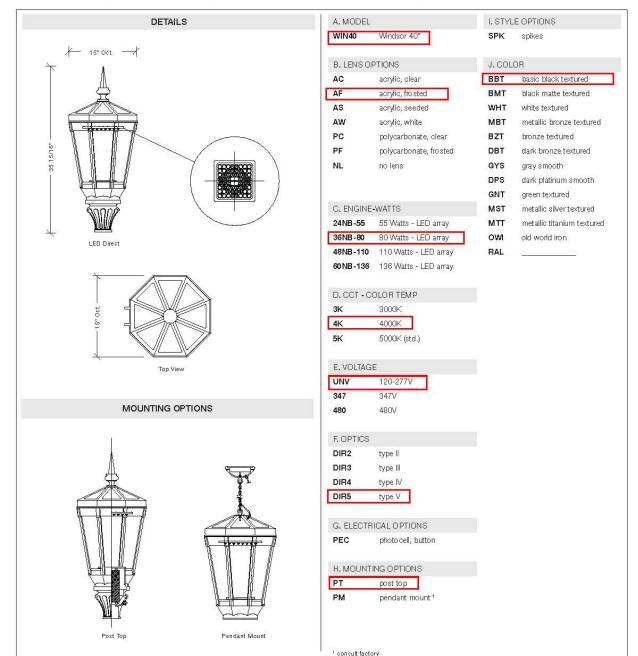
OT

TN

GR-III

rev. 02.20.2014 HOLLAND Poles & Bases

PT 24NR-55 5K UM DIR5 PEC SPK BRT 4K UNV DIR5 BBT



2041 58th Avenue Circle East Bradenton, fl 34203 Phone: (800) 345-4928 Fax: (941) 751-5535

C. HEIGHT 6 6' 8' 10 10' 12 OTHER 14' D. SHAFT Ø4", .125" wall thickness (S) (F) Ø4", .188" wall thickness (S) (F) 4M 12 7/8" SQ. Ø4", .226" wall thickness (S) 4P E. POLE TOP OT open top ARC acom finial ball finial **Bolt Circle** Perspective tenon OTHER F. OPTIONS GFI-IU 20AMP GFOI receptacle

Sample

DETAILS

Ordering HOLL

HOLL

4"OD shaft

S

S

Construction: All cast aluminum parts shall be low copper alloy A356. All extruded aluminum parts shall be alloy 6061-T6, 6063-T5 or equal. Standard fluted shaft profile shall be 16-flat flutes for 3"OD and 12-flat flutes for 4", 5", & 6"OD. Base Covers: require specification of smooth or

BBT

BBT

fluted shafts of the size required to meet wind load

Vibration Dampeners: Vibration dampener pads shall be provided when required by customer o deemed necessary by Beacon Products. Please consult factory for bridge mounted applications.

EPA (effective projected area): EPA is defined as (projected surface area X drag factor) and measured in ft2. Allowable post, luminaire arm, luminaire and accessory EPAs are derived from the most current published AASHTO (American Association of State Highway and Transportation Officials) standard, cur-rently AASHTO 2001 (50yr design life). Customer assumes all responsibility for selecting the appropriate post for installation (consult factory for assistance). Luminaire arm, luminaire and accessory EPA must be equal to or less than allowable EPA of post. Consult a professional engineer for compliance with local codes

Anchor Bolt: Anchor bolts, sized as required, double hex nuts and flat washers shall be hot dipped galvanized steel. A bolt circle template shall be provided for installation.

Fasteners: All fasteners shall be Corrosion Resistant. When tamper resistant fasteners are required, spantool required, available at additional cost).

Finish: Finish shall be a Beacote V polyester powdercoat electrostatically applied and thermocured. Bea-cote V finish shall consist of a five stage iron phosphate chemical pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists crack ing or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pound.

Limited Warranty: Beacon Products warrants its products, to the original purchaser, against defects in materials and workmanship for proper usage for a pe riod of 5 years after date of production, when properly installed, maintained and appropriately specified. See Warranty Information on www.beaconproducts.com for complete details and exclusions.

ORDERING

2041 58th Avenue Circle East Bradenton, FL 34203 Phone: (800) 345-4928 Fax: (941) 751-5535

wall nominal thickness height

.188"

HOLL/S/10/4G .125" 10' 7.3 5.5 4.3 3.3 2.8 2.3 1.9

HOLL/S/14/4M .188" 14' 6.6 5.0 3.7 2.9 2.3 1.9 1.6

HOLL/S/14/4P 226" 14' 7.4 5.6 4.3 3.3 2.7 2.3 1.9

HOLL/F/12/4M .188" 12' 6.5 4.9 3.7 2.8 2.0 1.6 1.1

HOLL/F/14/4M .188" 14' 4.9 3.5 2.5 1.7 1.1 0.7 0.3 HOLL/F/16/4M .188" 16' 3.5 2.3 1.5 0.8 0.3 0.0 0.0

vailable EPA index

catalog #

HOLL/S/16/4M

HOLL/S/18/4P

Due to our continued efforts to improve our products, product specifications are subject to

basic black textured

metallic bronze textured

black matte textured

white textured

bronze textured

gray smooth

green textured

old world iron

dark bronze textured

dark platinum smooth

metallic silver textured

metallic titanium textured



ORDERING





Rendering - Looking South from Singleton





Rendering - Looking North from Floyd



Application for URBAN DESIGN COMMITTEE Review

Department of Planning and Development Review Planning & Preservation Division 900 E. Broad Street, Room 510 Richmond, Virginia 23219 (804) 646-6335

http://www.richmondgov.com/CommitteeUrbanDesign

Application Type ☐ Addition/Alteration to Existing Structure ☐ New Construction ☑ Streetscape ☐ Site Amenity	✓ Encroachment✓ Master Plan✓ Sign✓ Other	Review Type ☑ Conceptual ☑ Final					
Project Name: VCU Linden Street Pedestrian Common	าร						
Project Address: Linden Street between Floyd Avenue and Grove Avenue							
Brief Project Description (this is not a replacement for the required detailed narrative): Streetscape project to include wider sidewalks, street trees, ornamental lighting, cross walks and brick paving.							
Street will remain one way traffic south bound.							
Applicant Information (on all applications other than encroachments, a City agency representative must be the applicant)							
Name: Keith Van Inwegen	Email: kvaninwegen@vcu.edu						
City Agency: n/a Phone: 804-828-1204							
Address: VCU Planning & Design, P.O. Box 843049, Richmond, Virginia 23284-3049							
Main Contact (if different from Applicant):							
Company:	Phone:						
Email:							

Submittal Deadlines

All applications and support materials must be filed no later than 21 days prior to the scheduled meeting of the Urban Design Committee (UDC). Please see the schedule on page 3 as actual deadlines are adjusted due to City holidays. Late or incomplete submissions will be deferred to the next meeting.

Filing

Applications can be mailed or delivered to the attention of "Urban Design Committee" at the address listed at the top of this page. It is important that the applicant discuss the proposal with appropriate City agencies, Zoning Administration staff, and area civic associations and residents prior to filing the application with the UDC.

UDC Background

The UDC is a ten member committee created by City Council in 1968 whose purpose is to advise the City Planning Commission on the design of projects on City property or right-of-way. The UDC provides advice of an aesthetic nature in connection with the performance of the duties of the Commission under Sections 17.05, 17.06 and 17.07 of the City Charter. The UDC also advises the Department of Public Works in regards to private encroachments in the public right-of-way.