



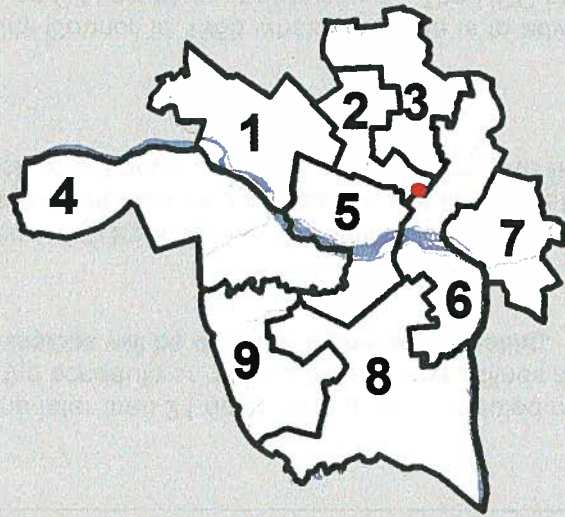
City of Richmond Department of Planning & Development Review

Location, Character, and Extent

LOCATION: 98 W Broad St

COUNCIL DISTRICT: 2

PROPOSAL: Final review of Maggie Walker Memorial Plaza



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





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: Maggie L. Walker Memorial

Project Address: 98 West Broad Street, Richmond, VA 23220

Brief Project Description (this is not a replacement for the required detailed narrative) : _____

The purpose of the project is to construct a plaza at the intersection of West Broad Street, North Adams Street and Brook Road as a memorial that will honor Maggie L. Walker and will become an urban pocket park that will support the surrounding neighborhood and City of Richmond.

Applicant Information

(on all applications other than encroachments, a City agency representative must be the applicant)

Name: Mark Olinger Email: Mark.Olinger@Richmondgov.com

City Agency: Planning and Development Review Phone: 804.646.6305

Address: 900 East Broad Street, Room 511, Richmond, VA 23219

Main Contact (if different from Applicant): John Carty

Company: VHB Phone: 804.343.7100

Email: JPCarty@VHB.com

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.



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Submission Requirements

- 10 copies of the application cover sheet and all support materials (see below), unless the application is for an encroachment, in which case only 6 copies are required. Plan sheets should be 11" x 17", folded to 8 1/2" x 11". If it is not possible to scale plans to these dimensions, please provide one set of larger, scaled plans.
- An electronic copy (PDF preferred) of all application materials, which can be burned to disc, emailed, or delivered by FTP.

All applications must include the attached cover sheet and the following support materials, as applicable to the project:

For Conceptual Review

- A detailed project narrative which includes the following: purpose of the project, project background, project budget and funding sources, description of construction program and estimated construction start date (description should also provide information on the surrounding area to provide context).
- A site plan for the project indicating site characteristics which include: building footprints, parking areas, pedestrian routes, recreation areas, open areas and areas of future expansion.
- A set of floor plans and elevations, as detailed as possible.
- A landscaping plan which shows the general location and character of plant materials and notes any existing tree to be removed.

For Final Review

- A detailed project narrative which includes the following: purpose of the project, project background, project budget and funding sources, description of construction program and estimated construction start date (description should also provide information on the surrounding area to provide context).
- A site plan for the project indicating site characteristics which include: building footprints, parking areas, pedestrian routes, recreation areas, open areas and areas of future expansion.
- A set of floor plans and elevations, as detailed as possible.
- A landscaping plan that includes a complete plant schedule, the precise location of all plant materials, and a landscape maintenance analysis. The plant schedule must show number, size and type of each planting proposed. If existing trees are to be removed, their size, type and location must be noted on the landscape plan.
- The location of all lighting units should be noted on a site plan, including wall-mounted, site and parking lot lighting. Other site details, such as benches, trash containers and special paving materials, should also be located. Include specification sheets for each item.
- Samples of all proposed exterior building materials, including but not limited to brick, mortar, shingles, siding, glass, paint and stain colors. When an actual sample cannot be provided, a product information sheet that shows the item or a photo of an existing item may be substituted.

Review and Processing

Once an application is received, it is reviewed by staff, who compile a report that is sent to the UDC. A copy of the report and the meeting agenda will be sent to the applicant prior to the meeting. The applicant or a representative should be present at the UDC meeting or the application may be deferred to the next regularly scheduled meeting. It is also strongly suggested that a representative of the City Agency which will have final responsibility for the item be present at the meeting (if the applicant and the representative are not the same). Once the UDC recommends action on the application, it is automatically placed on the agenda for the next City Planning Commission (CPC) meeting. An exception to this is encroachment applications, recommendations for which are forwarded to the Department of Public Works. The applicant or a representative must be present at the CPC meeting or the application may be deferred to the next regularly scheduled meeting.



To: Urban Design Committee Review
Department of Planning and
Development Review, Planning and
Preservation Division
Richmond, VA

Date: June 16, 2016

Memorandum

Project #: 33965.08

Re: Detailed Project Narrative
Richmond Plaza Honoring Maggie Walker

Purpose of the Project is to design a plaza at the intersection of West Broad Street, North Adams Street and Brook Road as a memorial that will honor Maggie L. Walker and will become an urban pocket park that will support the surrounding neighborhood and city of Richmond with a program that includes:

- Primary focus is to be the sculpture plaza with seating
- Expands hardscape for outdoor public and private dining venues
- Continues to accommodate loading, deliveries and valet parking in support of the existing and future businesses that face the plaza
- Offers a flexible space for small events, school field trips, starting point for tours of the Jackson Ward neighborhood.

Project Background: The Maggie Walker Commemoration has been in the planning process for several years led by the Public Art Commission and the Site Selection Team with the facilitation of several public outreach campaigns. The plaza design was initiated in late 2015 with VHB joining the team. The following design parameters were provided:

- The location of the plaza had been determined by the block defined by West Broad Street, North Adams Street and one block of Brook Road from Broad Street to Adams Street was to be closed.
- The sculptor had been selected, Antonio Tobias Mendez (Toby). The concept for the memorial was to revolve around a central sculpture of Maggie Walker on a pedestal, which could include inscriptions about her life, achievements, quotes and time line.

Project Context:

- **Location:** This project is located in the urban core of Richmond and acts as a gateway to the Jackson Ward neighborhood from the heavily traveled Broad Street. This location is within blocks of the Maggie Walker residence, now a National Park, and the location of the Emporium that Mrs. Walker developed. This location was selected, after much deliberation, as the optimum place to create a memorial to honor Maggie Walker.
- **Transportation and Circulation:** Broad Street will provide multi-modal access with cars and a new Bus Rapid Transit (BRT) station just opposite this site in the median that will encourage higher pedestrian activity through this block. As such, one of the project directives was to add a walk along Adams Street on this block and to widen the current walk along the Brook Road buildings. While bikes are an anticipated mode of transportation, direction was provided that bike parking will be accommodated just outside the plaza. It is anticipated that a future kiosk or other visual mapping of the area will be included for wayfinding from this plaza to other features in the neighborhood. Accommodation for this future kiosk will be provided. The curb

along the east side of Adams Street will be moved in towards the plaza to allow space for loading, deliveries, school bus drop-off, and valet parking. The turning movements around this intersection have been mapped and striping and stop bars will be adjusted to help accommodate vehicular movement. The pedestrian crossing across Broad will be upgraded by the BRT project at W. Broad and Adams Street.

- **Urban Fabric:** The plaza is defined by the triangular shape formed by the buildings fronting on the streets of Broad, Adams and Brook. Much of the shade that is cast in this plaza area is due to the existing buildings that enclose this space. The current businesses internal to this block include a dining venue that could be expanded with outdoor dining within a 6' wide fenced area along the buildings. This location will be within walking distance of several businesses within the surrounding blocks and the addition of public outdoor seating will create a flexible space that would encourage the bag lunch crowd to spend their lunch hour in the park.
- **History:** Brook Road is one of the few diagonal roads that bisect the city. As such, the history of this road will be an important element to be featured in the design. The existing granite curb lines of the street will remain on each side of the memorial plaza. The pavement in this area will be a paver which resembles cobblestone to differentiate it from the standard red tone bricks used in the streetscape along Broad Street. The cobble pavers, used instead of true cobble to maintain ADA materials throughout the plaza, will be turned in a pattern that will be parallel to the old Brook Road. Granite end caps on each end of the block will be inscribed with "Historic Brook Road" and a featured element in the top of one or both end caps can include a relief map of the city at a given point in history when Brook Road defined a route of travel leaving the city. The use of brick pavers along the Broad Street streetscape will be continued with the exception of the intersection of Brook Road where the cobble pavers will come forward to the street edge to give the visual cue about this historical street. Brick paving will replace the concrete of the existing walk along Brook Road and will also be featured on the new walk along Adams Street
- **Utility infrastructure and Design Constraints:** There are several underground utility lines- sewer, gas, water, electric and communication lines that thread through this space. There are existing traffic signal poles that are to remain. The roadway and pedestrian lighting within and adjacent to this space will be evaluated to determine optimum placement of new poles. Stormwater runoff from the site will be managed in the combined sewer system and by maintaining existing drainage patterns. The design maintains the existing amount of pervious area such that the project does not need to construct stormwater retention.

Memorial Design: The memorial plaza will encircle the sculpture of Maggie Walker as she stands in formal dress as a bronze sculpture in a 9-10' height on a green granite pedestal that will be roughly 40" high and a 5' diameter. Surrounding the sculpture will be a green granite apron and radiating bands of darker granite flush with the pavement. There will be granite benches that will encircle the back and sides of the sculpture leaving the front of the sculpture open for a walk-up approach and enabling the viewer to back away for the best views to see the bas relief featured on the pedestal and inscriptions on the apron and radiating bands of granite. Each granite bench will be four feet long and two feet deep and may include inscriptions on the front or the top that will relay the various roles that Maggie Walker undertook in her lifetime. The dedication wall parallel to Broad Street will have Maggie Walker's name and may feature a quote from her or about her. This granite wall will signify the pedestrian entrance into the plaza and, like entering her home, will announce the arrival to this special place. With the change in materials from the surrounding brick pavers to the granite paving, walls and benches, this plaza, like this woman being memorialized, will

be elegant. Care will be taken in the detailing to include cuts or skateboard deterrents that will help preserve this investment. Special lighting is being considered that will cast light down on the sculpture and may encircle the plaza with low mounted LED lighting along an inset at the base of the benches. To further this as a unique destination in the city, special furnishings will be used throughout the plaza, including benches, trash cans, and tree grates.

Existing Trees to be Removed: There is an existing live oak tree that was planted in the 1980's that is centered in the existing triangle formed by the three streets. The tree has a low and broad evergreen canopy. The city arborist provided direction about the limits of disturbance and pruning that could take place if the tree were to be saved. The concept removes the tree to allow for the development of the sculpture plaza with Maggie Walker standing on a pedestal in a central location. In addition, there are crape myrtle trees in small tree pits in the walk along Brook Road and the west side of Adams Street that are multi-stem. The four crape myrtles along Brook Road are beginning to obscure business entrances and will be removed. The crape myrtles on Adams Street will also be removed in order to extend the feel of the plaza space.

Landscape Plan: The planting plan includes large shade trees along both sides of Adams Street as well as surrounding the sculpture. The trees will provide shade to the plaza but will be limbed up to maintain views of the sculpture from all perspectives. The trees will soften the building lines and define the plaza as a pedestrian space. The trees selected are *Quercus phellos* (Willow Oak) and *Gleditsia triacanthos* var. *inermis* 'Shademaster' (Shademaster Honeylocust). The trees are both proven to be very urban tolerant. The planting beds providing the backdrop to the memorial plaza and sculpture will be designed according to the level of maintenance selected by the city. The plant height in these beds will be maintained in the range of 6"-36" based on plant selection. Due to the small size of the beds, the selection is limited to two species of plants massed for a greater impact.

In order to increase the sense of space in the plaza, the design has reduced the total planted area by 33% since conceptual review. In addition to the reduced planting area, tree grates have been added to the three tree pits in the main triangle of the plaza. Groundcovers are still included in the rest of tree pits on the west side of Adams Street to provide a contrast to the surrounding paving. Between the reduced landscaping and the addition of the tree grates, an extra 417 square feet of walkable area is now provided.

	Previous Design	Current Design	Percent Reduction
Two large planting beds	663 square feet	482 square feet	27.3%
Total pervious area	931 square feet	618 square feet	33.6%

Estimated Construction Start Date

The intent is that the plaza will be completed by December 2016. In order to meet the completion date, construction would begin in August.



Project #: 33965.08

Date: 6/22/2016

Maggie Walker Plaza
Opinion of Probable Construction Cost
CONCEPTUAL DESIGN- PHASE 1- MAIN PLAZA

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	MOBILIZATION	1	LS	\$ 30,000	\$ 30,000
SUBTOTAL =					\$ 30,000
EROSION AND SEDIMENTATION CONTROL					
2	E&S MEASURES	1	LS	\$ 5,000	\$ 5,000
3	MAINTENANCE OF TRAFFIC	1	LS	\$ 10,000	\$ 10,000
SUBTOTAL =					\$ 15,000
DEMOLITION					
4	ABANDON STORM INLET AND PIPING	1	EA	\$ 10,000	\$ 10,000
5	ERADICATE PAVEMENT MARKINGS	1	LS	\$ 1,000	\$ 1,000
6	DEMO PAVEMENT AND HARDSCAPE	920	SY	\$ 8	\$ 7,360
7	DEMO TREE, INCLUDES STUMP REMOVAL	5	EA	\$ 200	\$ 1,000
8	DEMO LARGE TREE, INCLUDES STUMP REMOVAL	1	EA	\$ 5,000	\$ 5,000
SUBTOTAL =					\$ 24,360
SITE WORK					
9	EARTHWORK	45	CY	\$ 22	\$ 990
10	INSTALL GRANITE CURB	350	LF	\$ 50	\$ 17,500
11	MILL AND OVERLAY ASPHALT PAVING	1	LS	\$ 2,000	\$ 2,000
12	MASONRY RETAINING WALLS AND BENCHES	126	LF	\$ 100	\$ 12,600
13	GRANITE WALL AND END TREATMENT VENEER	460	SF	\$ 80	\$ 36,800
14	GRANITE BENCH VENEER	260	SF	\$ 80	\$ 20,800
15	CARVING AND LETTERING	1	LS	\$ 25,000	\$ 25,000
16	RED BRICK SIDEWALK	270	SY	\$ 110	\$ 29,700
17	BROOK ROAD COBBLESTONE PAVERS	170	SY	\$ 110	\$ 18,700
18	MEMORIAL CIRCLE PAVERS - LIGHT	1,520	SF	\$ 60	\$ 91,200
19	MEMORIAL CIRCLE PAVERS - DARK	300	SF	\$ 60	\$ 18,000
20	6" CONCRETE WHEELCHAIR RAMP, WITH TRUNCATED DOMES	2	EA	\$ 1,000	\$ 2,000
21	INSTALL PAVEMENT MARKINGS	1	LS	\$ 3,000	\$ 3,000
22	INSTALL SIGN POSTS	4	EA	\$ 500	\$ 2,000
SUBTOTAL =					\$ 280,290
UTILITIES					
23	INSTALL DOGHOUSE MANHOLE	10	VF	\$ 620	\$ 6,200
24	INSTALL TRAP INLET	1	EA	\$ 5,800	\$ 5,800
25	INSTALL STORM PIPING	1	LS	\$ 1,700	\$ 1,700
26	INSTALL YARD DRAIN INLET	3	EA	\$ 1,000	\$ 3,000
27	ADJUST RIMS ON EXISTING UTILITIES	3	EA	\$ 2,000	\$ 6,000
28	INSTALL PEDESTRIAN LIGHT FIXTURE	2	EA	\$ 10,000	\$ 20,000
29	INSTALL ACORN LIGHT FIXTURE	1	EA	\$ 5,000	\$ 5,000
30	INSTALL UPLIGHTING AND BENCH LIGHTING	1	LS	\$ 15,000	\$ 15,000
31	RELOCATE COBRA HEAD LIGHT POLE	1	LS	\$ 30,000	\$ 30,000
32	ELECTRICAL WIRING	1	LS	\$ 5,000	\$ 5,000
SUBTOTAL =					\$ 97,700
LANDSCAPING					
33	INSTALL TREE	8	EA	\$ 1,000	\$ 8,000
34	CONSTRUCT NEW TREE WELL UP TO 25 SF	8	EA	\$ 350	\$ 2,800
35	ADDITIONAL SITE LANDSCAPING AND SEEDING	1	LS	\$ 10,000	\$ 10,000
SUBTOTAL =					\$ 20,800
SITE FURNISHINGS					
36	INSTALL CAST IRON TREE GRATE	4	EA	\$ 3,000	\$ 12,000
37	INSTALL DECORATIVE BENCH	6	EA	\$ 2,000	\$ 12,000
38	INSTALL TRASH CANS	4	EA	\$ 500	\$ 2,000
SUBTOTAL =					\$ 26,000
PHASE 1 SUBTOTAL =					\$ 494,150
39	CONTINGENCY @ 25%				\$ 123,538
TOTAL =					\$ 617,688

Note:

-This estimate does not include bonding costs



Project #: 33965.08

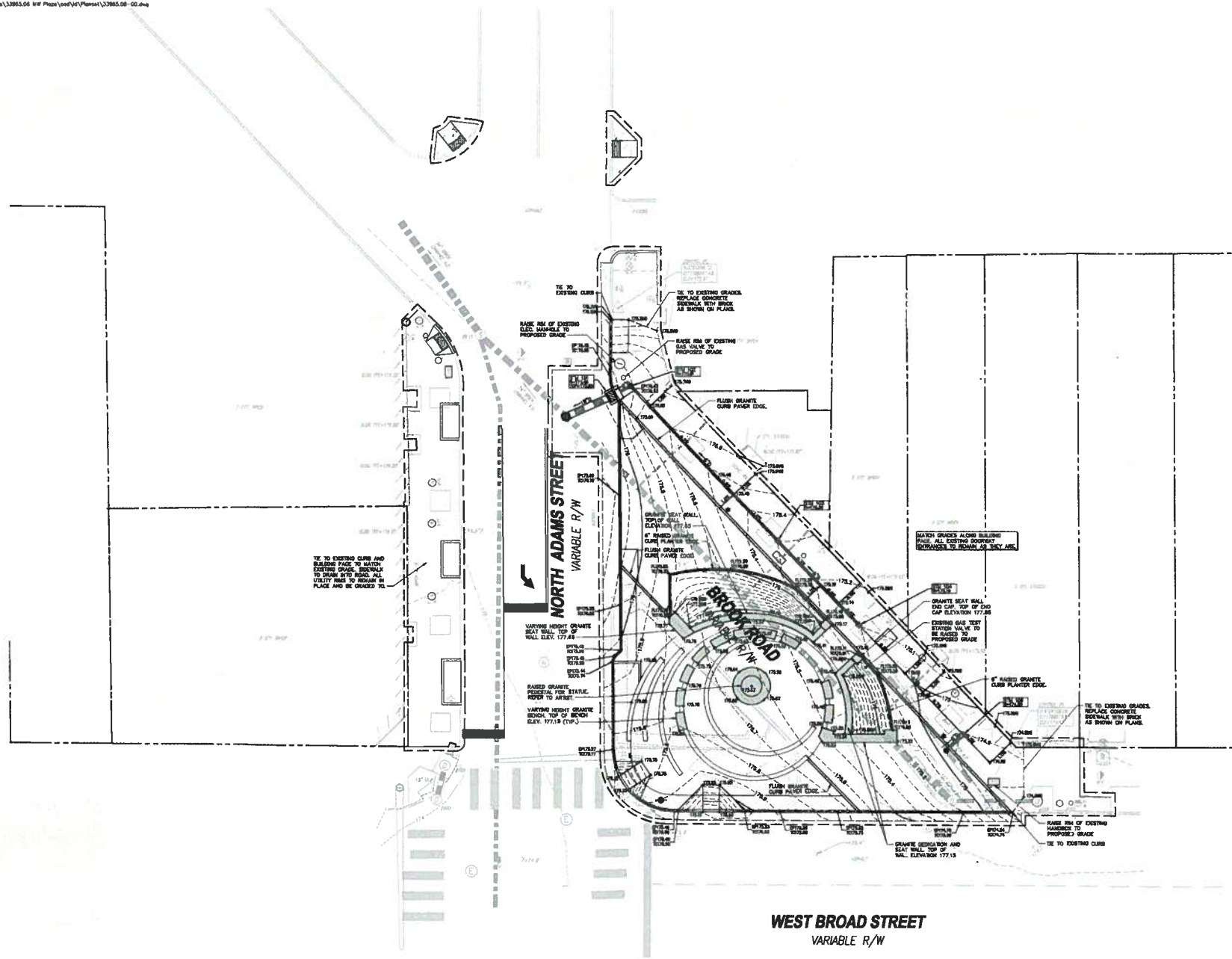
Date: 6/22/2016

Maggie Walker Plaza
Opinion of Probable Construction Cost
CONCEPTUAL DESIGN- PHASE 2- WEST OF ADAMS ST

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	MOBILIZATION (INCLUDED IN PHASE 1 COST)	1	LS	\$ -	\$ -
SUBTOTAL =					\$ -
EROSION AND SEDIMENTATION CONTROL					
2	E&S MEASURES	1	LS	\$ 1,000	\$ 1,000
SUBTOTAL =					\$ 1,000
DEMOLITION					
3	DEMO PAVEMENT AND HARDSCAPE	170	SY	\$ 8	\$ 1,360
4	SALVAGE AND PALLET EXISTING BRICKS, DELIVER TO CITY YARD	120	SY	\$ 50	\$ 6,000
5	DEMO TREE, INCLUDES STUMP REMOVAL	4	EA	\$ 200	\$ 800
SUBTOTAL =					\$ 8,160
SITE WORK					
6	EARTHWORK	10	CY	\$ 15	\$ 150
7	INSTALL GRANITE CURB	70	LF	\$ 50	\$ 3,500
8	RED BRICK SIDEWALK	120	SY	\$ 110	\$ 13,200
9	6" CONCRETE WHEELCHAIR RAMP, WITH TRUNCATED DOMES	3	EA	\$ 1,000	\$ 3,000
10	INSTALL PAVEMENT MARKINGS	1	LS	\$ 2,000	\$ 2,000
11	INSTALL SIGN POSTS	2	EA	\$ 500	\$ 1,000
SUBTOTAL =					\$ 16,200
LANDSCAPING					
12	INSTALL TREE	4	EA	\$ 1,000	\$ 4,000
13	CONSTRUCT NEW TREE WELL UP TO 25 SF	4	EA	\$ 350	\$ 1,400
14	ADDITIONAL SITE LANDSCAPING AND SEEDING	1	LS	\$ 2,000	\$ 2,000
SUBTOTAL =					\$ 7,400
PHASE 2 SUBTOTAL =					\$ 32,760
15	CONTINGENCY @ 25%				\$ 8,190
TOTAL =					\$ 40,950

Note:

-This estimate does not include bonding costs



Maggie Lena Walker Memorial and Plaza
 58 West Broad Street
 Richmond, Virginia

DATE	REVISION	BY	APP'D

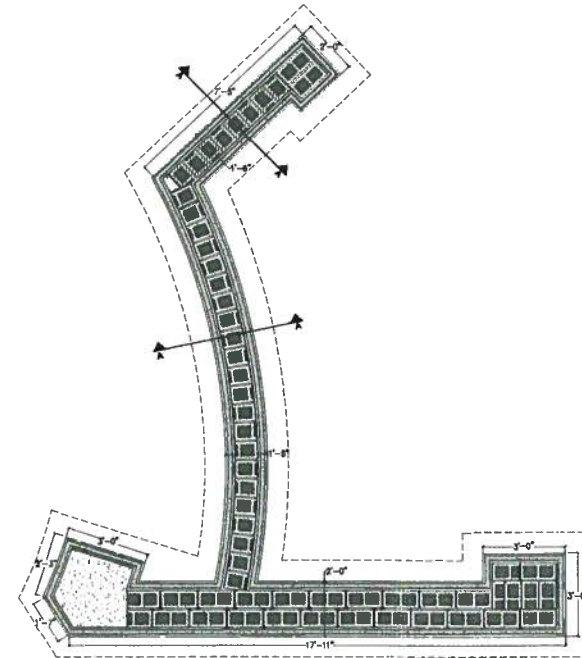
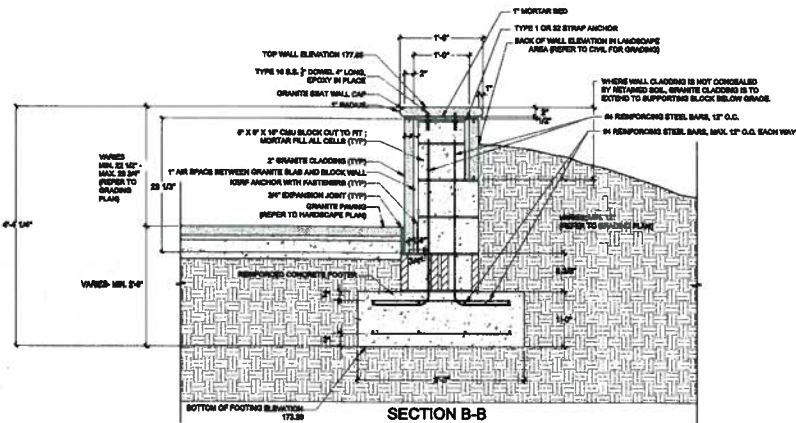
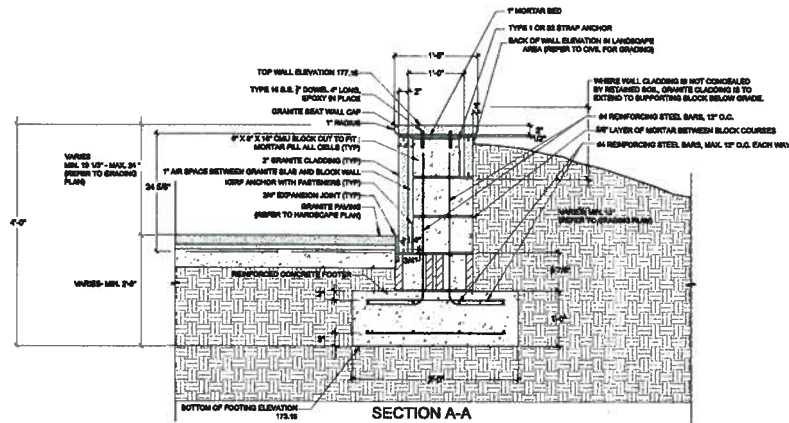
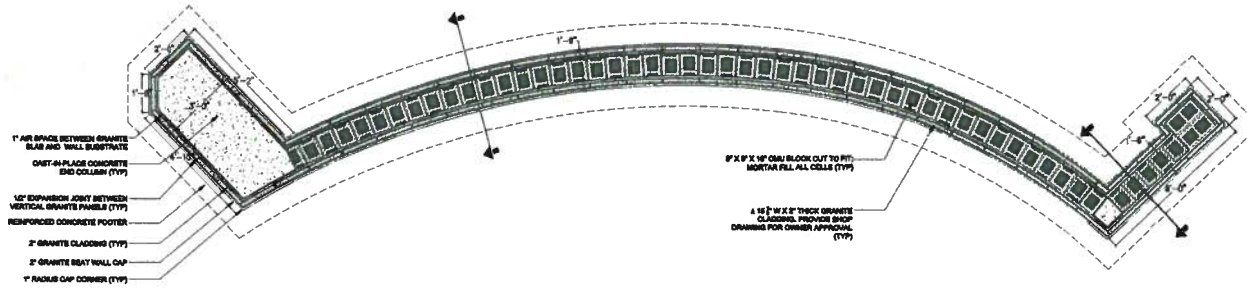
June 14, 2016

Grading and
 Drainage Plan

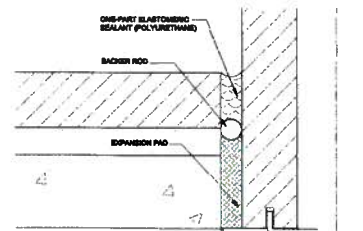


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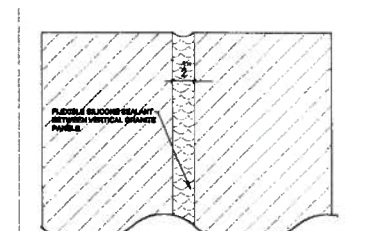
Project Number
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Granite Seat Wall Plan
 1/2"=1'-0"



3/4" EXPANSION JOINT DETAIL
 1/2"=1'



1/2" VERTICAL JOINT BETWEEN GRANITE PANELS
 1/2"=1'

**Maggie Lena Walker
 Memorial and Plaza**
 98 West Broad Street
 Richmond, Virginia

DATE	DESCRIPTION

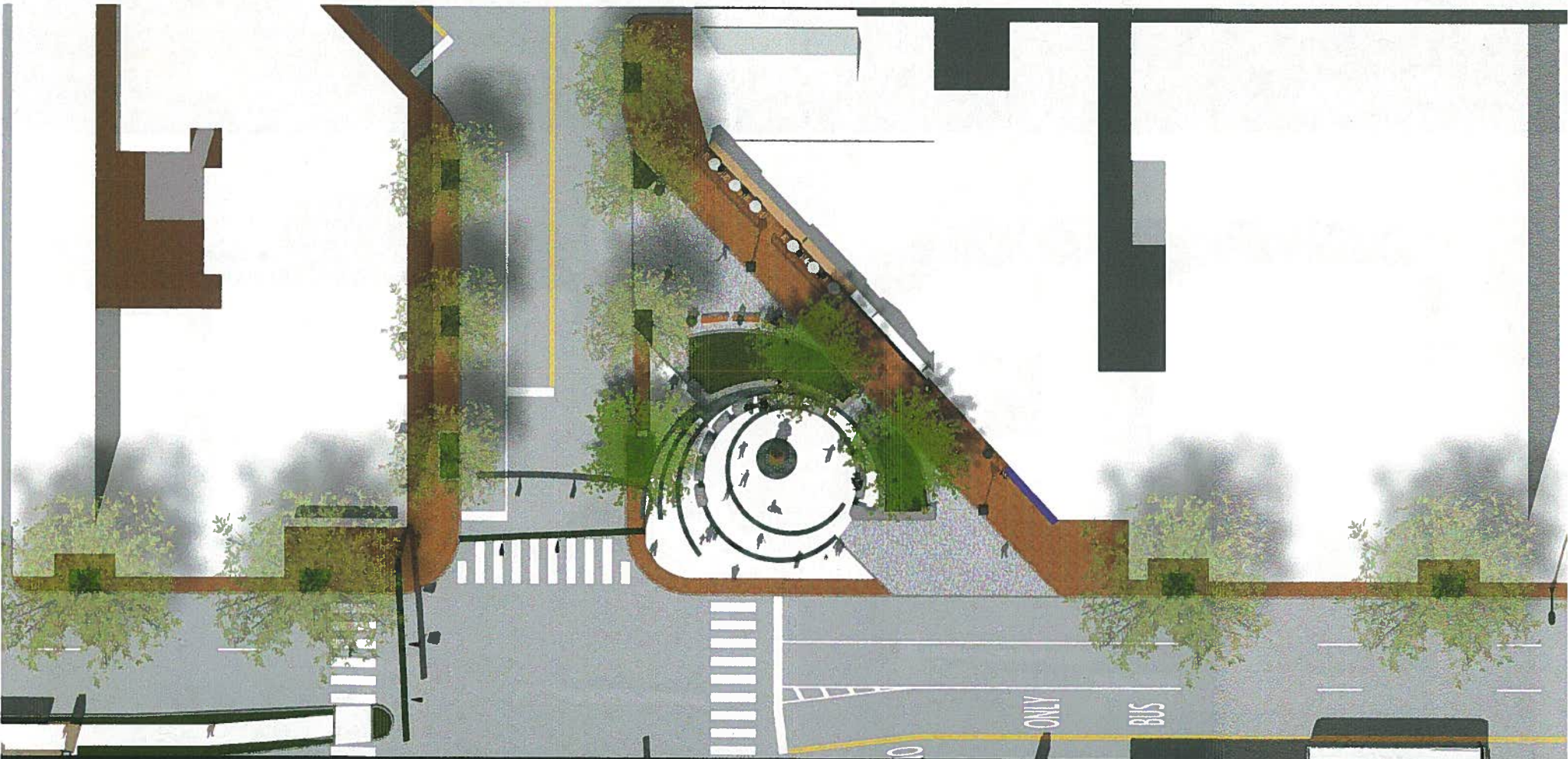
Details

C7.03



Maggie Lena Walker Memorial Design





Maggie Lena Walker Memorial

Maggie L. Walker Memorial Design

Public Art Commission





Maggie Lena Walker Memorial Design

Maggie L. Walker Memorial Design

Public Art Commission





View from Brook Road

Maggie L. Walker Memorial Design

Public Art Commission





Brook Road Curb Lines Maintained

Recognition of Historic Brook Road

Maggie L. Walker Memorial Design

Public Art Commission





View Toward W Broad Street

Maggie L. Walker Memorial Design

Public Art Commission





Sculpture Plaza

Maggie L. Walker Memorial Design

Public Art Commission





Preserving Open View from Broad Street

Maggie L. Walker Memorial Design

Public Art Commission





Seating Orientation & Dedication Wall

Maggie L. Walker Memorial Design

Public Art Commission





View from W Broad Street

Broad Street Crosswalk

Maggie L. Walker Memorial Design

Public Art Commission





View from N Adams Street

Adams Street Crosswalk

Maggie L. Walker Memorial Design

Public Art Commission





Brook Road Curb Lines Maintained

Maggie L. Walker Memorial Design

Public Art Commission



Quercus phellos

Willow Oak

Shape: pyramidal to oval

Foliage: dark green, narrowly elliptical leaf

Fall color: yellow, bronze-orange

Bark: gray, irregular furrows

Size: 60' Ht., 35' Spd.



Gleditsia triacanthos var. *inermis* 'Shademaster'

Shademaster Honeylocust

Shape: open spreading crown

Foliage: bright green, pinnately compound leaf

Fall color: yellow

Bark: grayish brown, scaly ridges & deep furrows

Size: 60' Ht., 35' Spd.



Proposed Tree Species

Willow Oak, Shademaster Honeylocust

Maggie L. Walker Memorial Design



Public Art Commission

Abelia x grandiflora 'Little Richard'
Little Richard Abelia

Pennisetum alopecuroides 'Hameln'
Hameln Dwarf Fountain Grass

Liriope muscari 'Big Blue'
Big Blue Liriope



Little Richard Abelia



Big Blue Liriope



Dwarf Fountain Grass

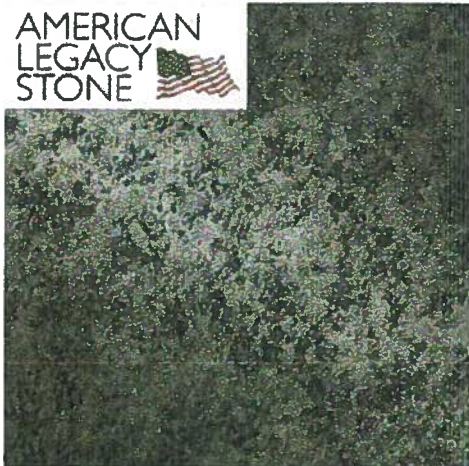


Proposed Shrub & Groundcover Species

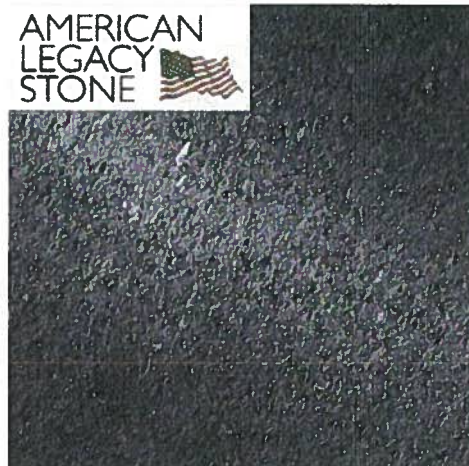
Maggie L. Walker Memorial Design

Public Art Commission

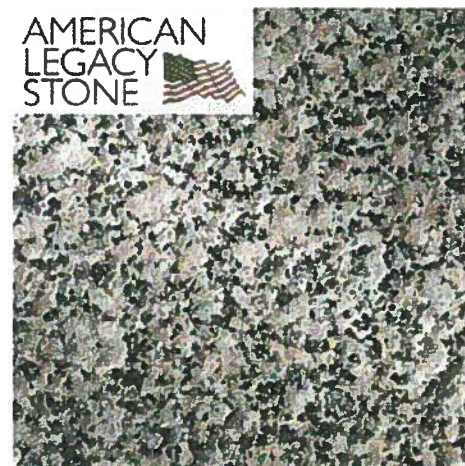




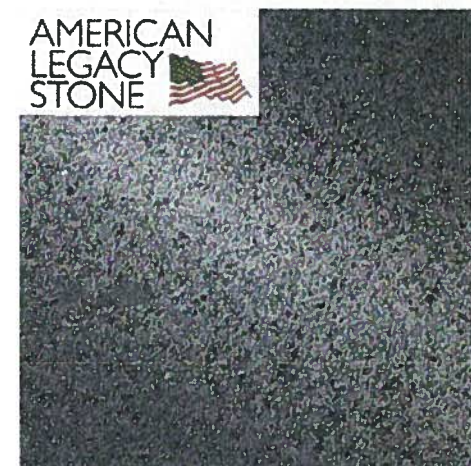
**Mountain Green
Benches, Walls,
Sculpture Pedestal**



**Mesabi Black
Engraved Accent
Paving Band**



**Sunset Beige
Tumbled Granite
Cobbles over Historic
Brook Road**



**Charcoal Black
Granite Paving in
Memorial Plaza**

Granite Paving, Benches & Walls

Coldspring Granite

Maggie L. Walker Memorial Design

Public Art Commission





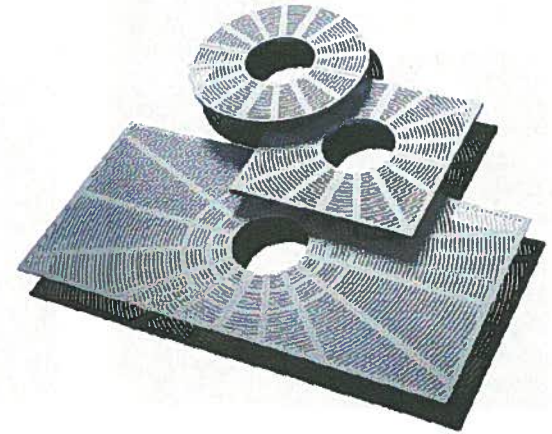
**Landscape Forms 'Austin'
Backless Bench**



**Landscape Forms 'Austin'
Bench w/ Back**



**Landscape Forms 'Austin'
Trash Receptacle**



**Ironsmith 'Olympian'
Cast Iron Tree Grate**

Site Furnishings

Maggie L. Walker Memorial Design

Public Art Commission



Pedestrian Level Light Fixture
City Standard - Hanover Lantern

CHARLESTON

1229BP - 1229C5 - 1229R3 - 1230BP
1237BP - 1237C5 - 1237R3 - 1238BP

Sitescape

SITE • ROADWAY • AREA LIGHTING

FIXTURE SELECTION

TOP VIEW

3" MIN. TENSION LENGTH FOR 1200 SERIES

HEIGHT	WIDTH	FITTER DIA.	FIXTURE NO.	MAX. WATTS - INC.	MAX. WATTS - M.V.	MAX. WATTS - H.P.S.	MAX. WATTS - M.H.	MAX. WATTS - F.H.
43 1/2"	18 1/4"	3" I.D.	1229BP	250w	175w	180w	175w	2-75
44 1/2"	18 1/4"	3" I.D.	1237BP	250w	250w	250w	250w	3-75
43 1/2"	18 1/4"	3" I.D.	1229C5	250w	175w	180w	175w	2-75
44 1/2"	18 1/4"	3" I.D.	1237C5	250w	250w	250w	250w	3-75
43 1/2"	18 1/4"	3" I.D.	1229R3	250w	175w	180w	175w	2-75
44 1/2"	18 1/4"	3" I.D.	1237R3	250w	250w	250w	250w	3-75
43 1/2"	18 1/4"	3" I.D.	1230BP	250w	175w	180w	175w	2-75
44 1/2"	18 1/4"	3" I.D.	1238BP	250w	250w	250w	250w	3-75

SPECIFICATIONS

MODEL No. shown 1230BP

E.P.A. - 235
Max. Wt. 46 lbs

- 3 pc. cast aluminum vent cap ass'y
- Cast aluminum hinged roof for easy reamping.
- Prismatic polycarbonate roof panels shown. (Glass available, contact factory.) Panels secured with clips & screws.
- 18 1/4" sq.
- Cast aluminum top cage frame.
- Prismatic polycarbonate cage panels shown. (Glass available, contact factory.) Panels secured to cage by slotted tracks.
- 43 1/2"
- Four extended aluminum cage legs welded to top & bottom cage frames.
- Porcelain mogul base 4th socket. (Lamp not supplied.)
- Cast aluminum top ballast housing.
- Cast aluminum bottom cage frame.
- Ballast & component parts mounted inside moisture proof ballast compartment. (Customer must specify ballast settings & ratings desired.)
- Cast aluminum post four slips over 3" dia. post or stem.
- External fasteners are stainless steel.
- SP15-18 size supplied.
- 2 1/2"
- 1 1/2"

FEATURES

SOURCES: (factory installed, prewired and tested).
 INC. - (incandescent) 250 watt max.
 MV - (mercury vapor) 50-75-100-175-250 watt.
 S - (high pressure sodium) 35-50-70-100-150-250 watt.
 MH - (metal halide) 70-100-175-250 watt.

FINISHES:
 All Hanover Lantern finishes available, see page 3 for selection.

PANELS:
 CA - Clear acrylic.
 CP - Clear polycarbonate, UV stabilized.
 OA - Opal acrylic.
 OP - Opal polycarbonate, UV stabilized.
 PP - Prismatic polycarbonate, UV stabilized.

VOLTAGES:
 120-208-240-277-QUAD (contact factory for availability)

REFRACTORS:
 No. 81-6" borosilicate glass, type V distribution.
 No. 82-6" borosilicate glass, type III distribution.
 No. 83-6" borosilicate glass, type V distribution.
 No. 84-6" borosilicate glass, type II distribution.

PHOTO CONTROL: (optional) factory installed.
 No. 10-120 volt only.
 No. 11-208 to 277 volt. (Must be installed in post only).

PHOTOMETRIC DATA

Symmetric Distribution

Fixture: 1237C5
Lamp: 150w H.P.S.
Lamp Lumens: 16,000

Optics: Type V Cone
Mounting Height: 12'
Panels: Clear polycarbonate

Coefficient of Utilization
 (based on street and house utilization in %)

Street Side	House Side
0.30	0.25
0.25	0.20
0.20	0.15
0.15	0.10
0.10	0.05

Mounting height multiplier for foot-candles:

10'	11'	12'	13'	14'
1.4	1.2	1.0	.88	.73

Correction factor

ORDERING GUIDE

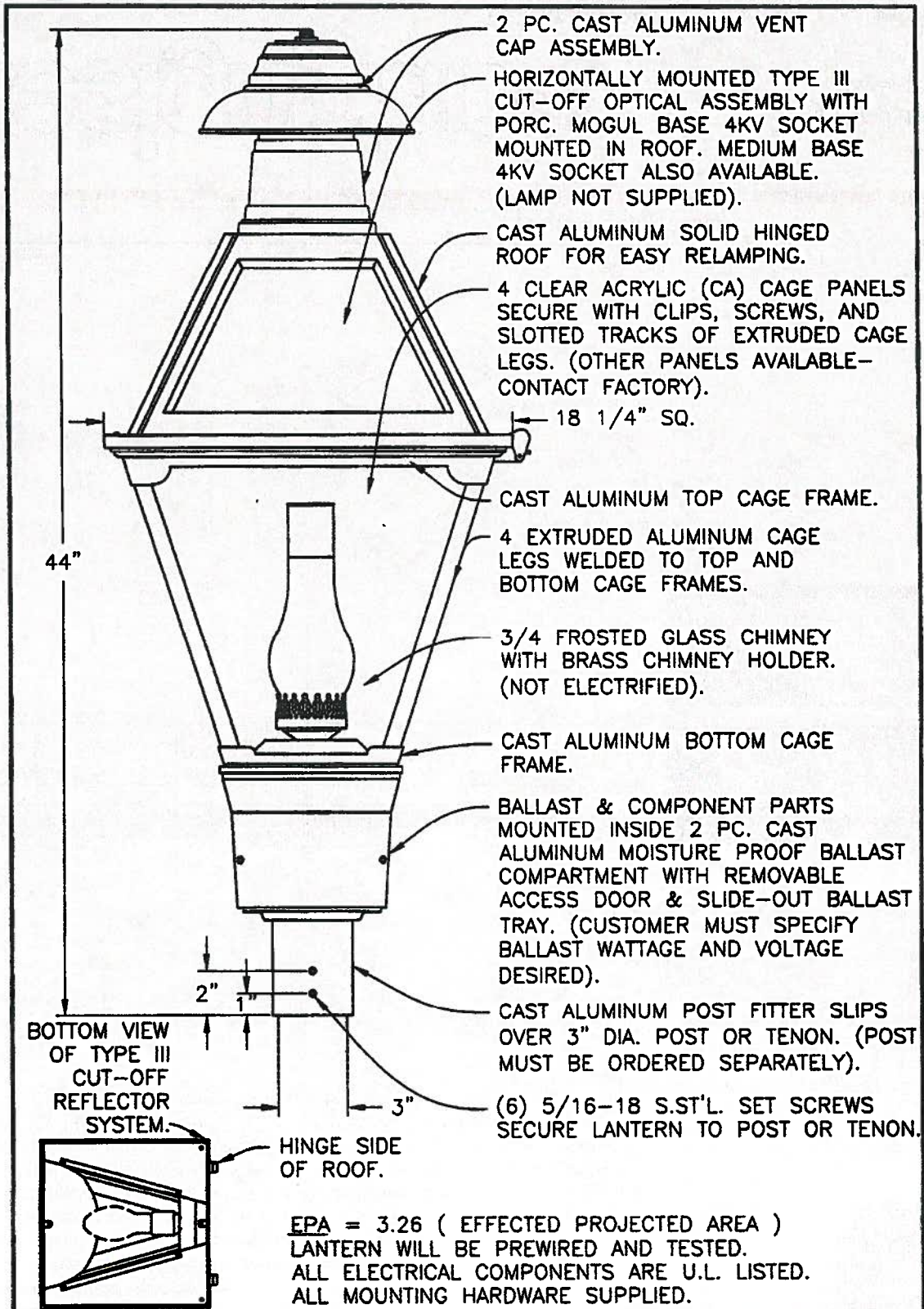
To ensure prompt and efficient processing of your order, please follow the sequence listed in the example below.

- SOURCE:**
 INC - incandescent
 MV - mercury vapor
 S - high pressure sodium
 MH - metal halide
- MODEL NO.:**
 1229BP 1237BP
 1229C5 1237C5
 1229R3 1237R3
 1230BP 1238BP
- FINISH:**
 See page 3 for selection.
- PANELS:**
 CA - Clear acrylic
 CP - Clear polycarbonate
 OA - Opal acrylic
 OP - Opal polycarbonate
 PP - Prismatic polycarbonate
- WATTAGE:**
 MW-50-75-100-175-250
 S-35-50-70-100-150-250
 MH-70-100-175-250
- VOLTAGE:**
 120v.-208v.-240v.-277v.
- REFRACTORS:** (optional)
 81-6" glass type V
 82-6" glass type III
 83-6" glass type V
 84-6" glass type II
- PHOTO CONTROL:** (optional)
 10-120 volt only
 11-208/277 volt.

① ② ③ ④ ⑤ ⑥ ⑦ ⑧
 S 1229R3 BLK CP 150 240 82
 For post selection, see pages P-1 to P-10.
 Accessories selection, see pages A-1 to A-6.

Hanover LANTERN, Inc.
 540 W. 11th Street, P.O. Box 1155
 St. Louis, MO 63103
 Phone: (314) 241-1155

**Pedestrian Level Light Fixture
City Standard - Hanover Lantern**



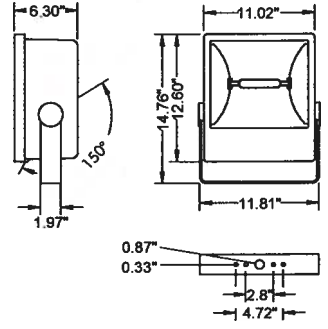
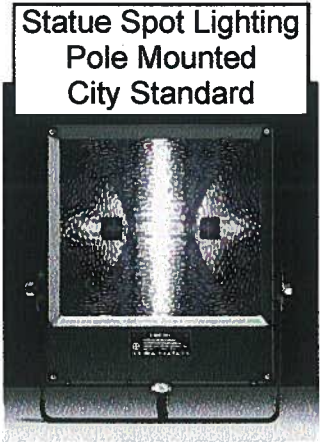
EPA = 3.26 (EFFECTED PROJECTED AREA)
 LANTERN WILL BE PREWIRED AND TESTED.
 ALL ELECTRICAL COMPONENTS ARE U.L. LISTED.
 ALL MOUNTING HARDWARE SUPPLIED.

Drawing for illustration only - made approximate

APPROVAL SIGNATURE		FINISH _____	BALLAST <input type="checkbox"/> Mercury Vapor	 <small>1200 SERIES H.I.D. POST TOP LANTERN</small>	TITLE
HEIGHT	44"	PANELS _____	<input type="checkbox"/> Metal Halide		"CHARLESTON"
WIDTH	18 1/4"	SOCKET _____	<input type="checkbox"/> High Pressure Sodium	1200 SERIES H.I.D.	
PROJECTION		SOCKET <input type="checkbox"/> MEDIUM <input type="checkbox"/> MEDIUM	WATTAGE _____	POST TOP LANTERN	
TOP TO OUTLET		VOLTAGE _____	POWER FACTOR <input type="checkbox"/> HPF <input type="checkbox"/> HPF	Dwg. No.	
			SCALE 1=4	DATE 04/01/04	L49561

SUPERLIGHT 150W

AXIALLY SYMMETRICAL WIDE BEAM



Superlight 150 W

Axially symmetrical wide beam

For metal halide lamps (HIT-DE), ceramic metal halide lamps (HIT-DE-CE) and high pressure sodium lamps (HST-DE), IP65, IK10 windage area AW 0.09 m², die cast aluminum housing, polyester powder coated, axially symmetrical high gloss aluminum reflector, all exterior steel parts are stainless steel, tempered safety glass, silicon gasket, closure with 4 stainless steel screws, hinged front frame, mounting bracket powder coated aluminum with tilt scale: 4 drilled holes Ø 0.33", spacing 2.76" (4.72"), 1 centre hole Ø 0.67", tilt range 150°, M20 cable gland, integral LPF ballast and ignitor or LED driver, HPF available on request, supplied without lamp

Superlight 150 W, axially symmetrical wide beam

Part number	Color	Lamp	Lampholder	Weight	Half beam angle γ	
					C 0 – 180	C 90 – 270
<input type="checkbox"/> M8 802 041 009	black	HIT-DE 150 W HIT-DE-CE 150 W HST-DE 150 W	Rx7s	17.42 lbs	27°	68°



Job Name:

Fixture Type:

Last Modified: 06.29.2016



sales@designplan.com
www.designplan.com

LED INGROUND LIGHT (XIG)



DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

LIGHT OUTPUT - XIG					
	# of LEDs	Lumens (Nominal)			
		SP10	NFL25	FL40	
Cool White	350 mA	19	2159	2076	2066
	Watts		22	23	22
Warm White	350 mA	19	1445	1485	1347
	Watts		22	23	22

LED Chips are frequently updated therefore values may increase.

US patent 8,152,334 and US & Int'l. patents pending

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Select high-brightness LEDs in Cool White (5000K) or Warm White (3500K) color temperature. 68CRI

DRIVER CURRENT - Available in 350mA

OPTICS / AIMING - Available with 10°, spot, 25° or 40° flood horizontal beam angle distributions. Optics can be tilted +/- 15° from vertical via external aiming screw, with tamper-resistant spanner tool. Adjustment tool provided.

HOUSING - Composite rough-in housing never corrodes; field-proven to last for more than 20 years without maintenance. Luminaire housing is 85% copper alloy for wet locations or aluminum for damp/ dry locations. CNC precision machined to insure proper sealing.

DRIVER OVER CAPABILITY - 4,000 lbs. vehicle weight.

OPTICAL UNIT - 15mm low-iron tempered glass lens does not change color of light emitted. 19mm thick lens supplied with stainless steel trim option to retain flush surface. Sealed optical chamber is aimable from outside the unit to ensure integrity of the seal. No heat in the LED light beam means a cool lens - no risk of burns to bare feet. Optional slip resistant lens available, to enhance public safety.

INSTALLATION - Rough-in housing can be shipped ahead for pre-casting in concrete. Luminaire connects to field wiring via IP-68 rated connector.

ELECTRICAL - Universal frequency input (120-277V, 50/60 Hz). Surge protection meets ANSI C62.41.2, Scenario 1, Location Category C-low standards (6,000; 3,000A)

DRIVER - State-of-the-art driver technology specifically designed for LSI LED fixtures provides unsurpassed system efficiency.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

FINISH - Clear-anodized natural aluminum finish or LSI's DuraGrip® polyester powder coat finishes available. DuraGrip finish withstands extreme weather changes without cracking or peeling, and is guaranteed for a full five years. Standard colors include black, white, bronze, metallic silver, graphite and satin verde green. Natural brass matte blast finished.

TRIM - Optional 11" diameter x .18" thick stainless steel decorative trim has radial polish finish.

WARRANTY - LSI LED fixtures carry a limited 5 year warranty.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

SHIPPING WEIGHT - XIGB - 28 lbs., XIGA - 14 lbs.

LISTING - Listed to U.S. and Canadian safety standards. Suitable for wet locations.

THOMAS HARRIS & CO., INC
8505 BELL CREEK RD., SUITE B
MECHANICSVILLE, VA 23116
804-730-3003

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



IP68 3M

ARRA
Funding Compliant



Intertek
Suitable for wet locations
Not recommended for continuously immersed applications



Project Name MAGGIE LENA WALKER MEMORIAL AND PLAZA Fixture Type A
Catalog # XIG-B-LED-19-350-WW-UE-FL40-FINISH-SST

10/21/15

© 2015

LSI INDUSTRIES INC.

LED INGROUND LIGHT (XIG)

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XIG A LED 19 350 CW UE SP10 WHT SST**

Prefix	Housing	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Distribution	Finish	Options
XIG	B - Brass A - Aluminum (Indoor or Damp Location Only)	LED	19	350 - 350 mA	CW - Cool White (5000K) WW - Warm White (3500K)	UE - Universal Electronic (120-277V 50/60 Hz)	SP10 - 10° Spot NFL25 - 25° Narrow Flood FL40 - 40° Flood	NB - Natural Brass ¹ NA - Natural Aluminum ² BRZ - Bronze BLK - Black WHT - White MSV - Metallic Silver GPT - Graphite SVG - Satin Verde Green	SST - Stainless Steel Trim ^{3,4,6} TR - Trencher Resistant Fasteners ^{5,6} DSA - Directional Shield Aluminum ^{5,6} DSB - Directional Shield Brass ⁵ RGA - Rock Guard Aluminum ^{5,6} RGB - Rock Guard Brass ⁶ SRL - Slip Resistant Lens
RIH									

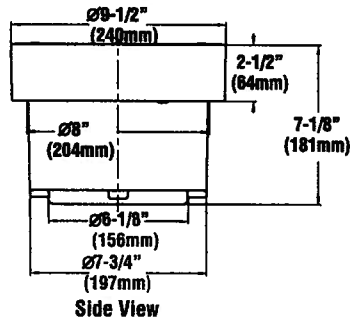
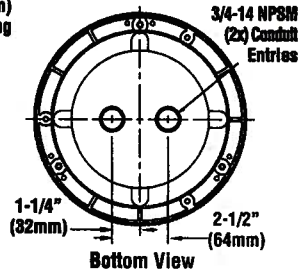
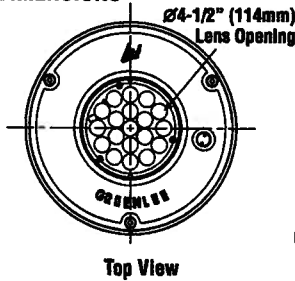
NOTES:

- 1- Brass Housing Only
- 2- Aluminum Housing Only
- 3- SST not available with DS or RG options
- 4- Aluminum housing painted BLK with SST. Brass housing NOT painted with SST.
- 5- DSA/RGA compatible with XIG A only.
- 6- XIG can NOT have DSB/A, RGB/A and SST at the same time. Only one.

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

TRKEY - Key for TR Fasteners G34062

DIMENSIONS



OPTIONS



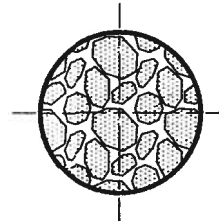
Rock Guard (RGA/B)
Lens/Lamp Protection



Directional Shield (DSA/B)
Increased Light Control



Stainless Steel Trim (SST)
Decorative Appeal



Slip Resistant Lens (SRL)
Enhance Public Safety

THOMAS HARRIS & CO., INC
8505 BELL CREEK RD., SUITE B
MECHANICSVILLE, VA 23116
804-730-3003

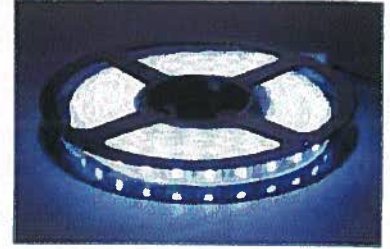




Flex LED Tape WP Installation Manual



Bench Lighting - Recessed at Base Type B Fixture on Photometric Plan



SPECIFICATIONS

Average Rated Life: 30,000 hours
Operating Temperature: -40°C to 80°C

ELATION FLEX LED TAPE WP is a very thin and flexible LED circuit strip mounted inside a silicone water proof sleeve. It can be cut every 2" and put back together using simple soldering techniques and silicone seal kit. It comes available in RGB and Single Color versions. High output, low heat and easy installation make this product the ideal product for a variety of applications.

FLEX RGB WP+ TAPE SPECIFICATIONS

View Angle: 120°
Length: 3 meters / 9.8 feet
Width: 14 mm
Power Consumption: 43.2w
Voltage: DC12V
LEDs: 180 SMD
Wiring Diagram:

W	Power supply DC12V+
R	Red color LED DC12V-
G	Green color LED DC12V-
B	Blue color LED DC12V-

SINGLE COLOR TAPE SPECIFICATIONS

View Angle: 120°
Length: 6 meters / 20 feet
Width: 14 mm
Power Consumption: 28.8w
Voltage: DC12V
LEDs: 360 SMD
Wiring Diagram:

W	Power supply DC12V+
C	Color LED DC12V-

DMX Accessories



Flex RGB+ WP



Elar Driver-1



AL-150-12



Elar Driver-8



Flex PSU 4A

Flex LED Tape WP Installation Manual



PRODUCT ORDERING SPECIFICATIONS

Order Number	Description
Flex RGB WP+	10' roll RGB tape
Flex WW WP	20' roll warm white tape, 3000°k
Flex CW WP	20' roll cool white tape, 6000°k
Flex B WP	20' roll blue tape
Flex R WP	20' roll red tape
Flex G WP	20' roll green tape
Flex A WP	20' roll amber tape

Bench Lighting - Recessed at Base
Type B Fixture on Photometric Plan

DMX CONTROL OPTION ITEMS

Order Number	Description
ELAR Driver 1	3 channel DMX driver only
ELAR Driver 8 12 V	150W power supply and 32 channel DMX driver
ELAR PSU4A	50W power supply 4 amp
AL-150-12V	150W power supply 12.5 amp

ACCESSORIES

Order Number	Description
Flex Clip Kit	Mounting clips for WP tape
Flex IP Clip Kit	Silicon, end caps and 2 clips for WP tape

