

# Drawings and Specifications

(Separated into two files – this file is for pages 1 through 10)

## Crite Park

At intersection of Columbus Avenue and West Canton Street

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3. Crite Park Conceptual plan showing existing brick wall location
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- LEGEND**
- 1 Metal Pergola with Art Panels
  - 2 Accessible Table Seating
  - 3 Conversational Seating Area
  - 4 Panel Fence on Granite Curb
  - 5 Trash Receptacle
  - 6 Concrete Paving
  - 7 Existing Light Fixture (to remain)
  - 8 New Light Fixture
  - 9 Existing Tree (to remain)
  - 10 New Shade Tree
  - 11 Flowering Shrub
  - 12 Landscape Planting Area

Crite Park Conceptual Plan





Crite Park Conceptual Plan  
 Blue lines represent existing brick wall



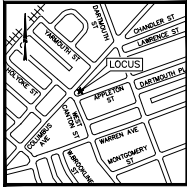


Crite Park Conceptual Plan  
Street view from West Canton Street

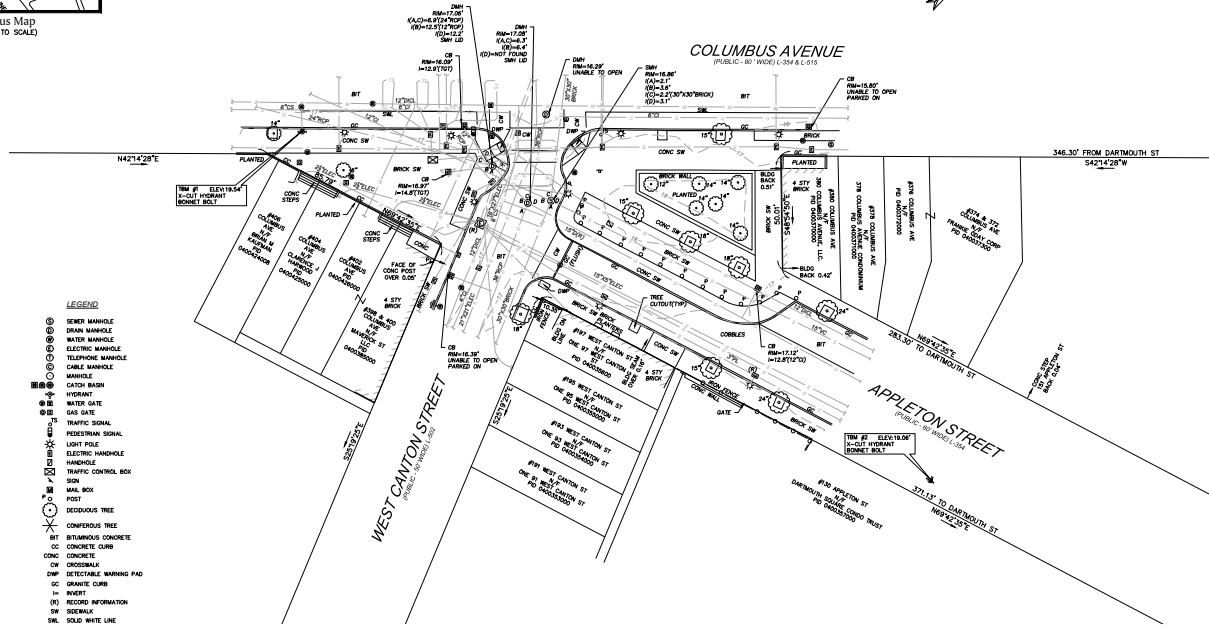




Crite Park Conceptual Plan  
Street view from Columbus Avenue



Locus Map  
(NOT TO SCALE)



- LEGEND**
- ⊙ SEWER MANHOLE
  - ⊙ DRAIN MANHOLE
  - ⊙ WATER MANHOLE
  - ⊙ ELECTRIC MANHOLE
  - ⊙ TELEPHONE MANHOLE
  - ⊙ CATCH BASIN
  - ⊙ CATCH BASIN
  - ⊙ INVERT
  - ⊙ WATER GATE
  - ⊙ GAS GATE
  - ⊙ TRAFFIC SIGNAL
  - ⊙ PEDESTRIAN SIGNAL
  - ⊙ LIGHT POLE
  - ⊙ ELECTRIC HANDHOLE
  - ⊙ HANDHOLE
  - ⊙ TRAFFIC CONTROL BOX
  - ⊙ MAIL BOX
  - ⊙ POST
  - ⊙ DECAIDUOUS TREE
  - ⊙ CONIFEROUS TREE
  - BT BRYANOUS CONCRETE
  - CC CONCRETE CURB
  - CC CONCRETE
  - CCW CONCRESSIBLE WARNING PAD
  - CG GRANITE CURB
  - IN INVERT
  - (P) RECORD INFORMATION
  - SW SIDEWALK
  - SML SOLID WHITE LINE
  - TOT TOP OF GAS TRAP
  - SEWER LINE
  - DRAIN LINE
  - WATER LINE
  - GAS LINE
  - UNDERGROUND ELECTRIC CONDUIT
  - TRAFFIC SIGNAL LINE

**UTILITY NOTE**

EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND COORDINATING ANY ON-SITE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND RECORD INFORMATION FROM THE CITY OF BOSTON AND THE MAJOR UTILITIES COMPANIES. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES AS REQUIRED PRIOR TO THE START OF CONSTRUCTION.

- GENERAL NOTES**
1. THIS PLAN IS BASED UPON AN ON-THE-GROUND SURVEY PERFORMED BY BSC GROUP, INC. IN FEBRUARY 2020.
  2. HORIZONTAL DATA IS BASED UPON NAD 83 AS DERIVED BY GPS OBSERVATIONS PERFORMED BY BSC GROUP, INC. IN FEBRUARY 2020.
  3. VERTICAL DATA IS BASED UPON NAD 83 AS DERIVED BY GPS OBSERVATIONS PERFORMED BY BSC GROUP, INC. IN FEBRUARY 2020.
  4. LOCUS IS LOCATED WITHIN ZONE 18 AND IS APPROXIMATELY 100 FEET FROM THE CITY OF BOSTON. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES AS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
  5. UTILITIES RECORDS WERE NOT RECEIVED FROM BOSTON FIRE ALARM.

- PLAN REFERENCES**
1. PLAN ENTITLED "PLAN OF LAYING OUT OF APPLETON STREET BY A.S. DAT, DATED SEPTEMBER 1, 1988, RECORDED AS LAYOUT ENGINEERING DEPARTMENT."
  2. PLAN ENTITLED "PLAN OF LAYING OUT OF WEST CANTON STREET BY A.S. DAT, DATED SEPTEMBER 1, 1988, RECORDED AS LAYOUT ENGINEERING DEPARTMENT."
  3. BOSTON CITY FIELD BOOK 588, PAGE 28-33.
  4. BOSTON CITY FIELD BOOK 588, PAGE 28-33.
  5. BOSTON CITY FIELD BOOK 663, PAGE 44-45.

I CERTIFY TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF, THAT THIS PLAN IS BASED UPON AN ON-THE-GROUND SURVEY PERFORMED BY BSC GROUP, INC.

*S. Ewald*

PROFESSIONAL LAND SURVEYOR  
FOR BSC GROUP, INC.

DATE: 03/16/2020

**EXISTING  
CONDITIONS PLAN**

ALLAN ROHAN CRITE SQUARE  
IN  
BOSTON  
MASSACHUSETTS  
(SUFFOLK COUNTY)

MARCH 06, 2020

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PREPARED FOR:  
ELLIS SOUTH END NEIGHBORHOOD  
ASSOCIATION  
PO BOX 170731  
BOSTON, MA 02117

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**BSC GROUP**  
803 Summer Street  
Boston, Massachusetts  
02127 617.896.4300

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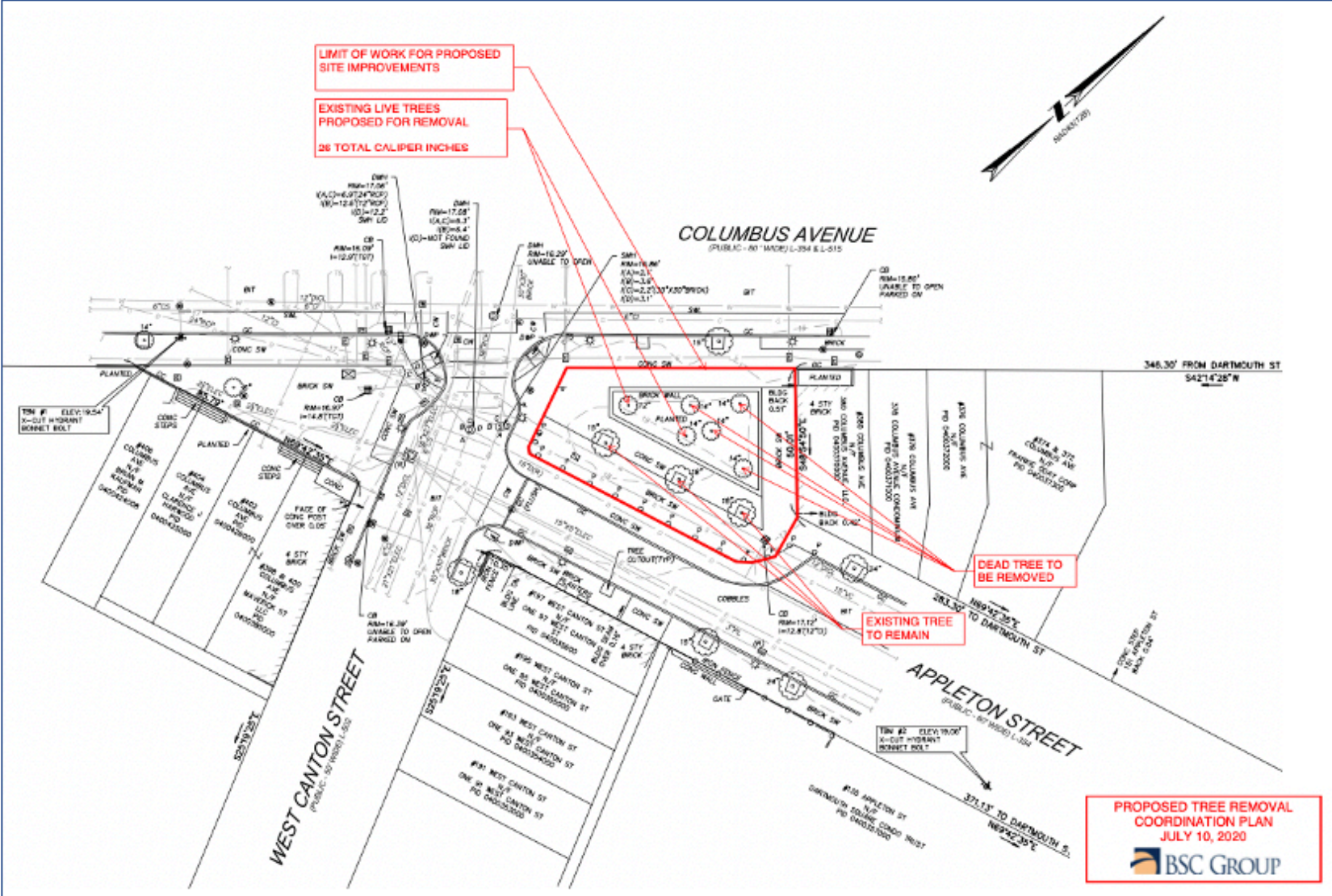
SCALE: 1" = 20'  
0 5 10 20 40 FEET

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PROJ. MGR.: A.SLOAT  
FIELD: M.ZOMPETTI  
CALC./DESIGN: M.HASSANOVA  
DRAWING: S.BONIN  
CHECK: A.SLOAT, S.EWALD  
FILE: P:\2341100\SD\V\2341100C.dwg  
DWG: 2341100C 1 SHEET  
JOB. NO. 2-3411-00 1 OF 1

Crite Park – site plan





Crite Park – tree removal



Crite Park – Furniture and adjusted pergola design locations



**Steelworx Pergola, 10' x 34'**

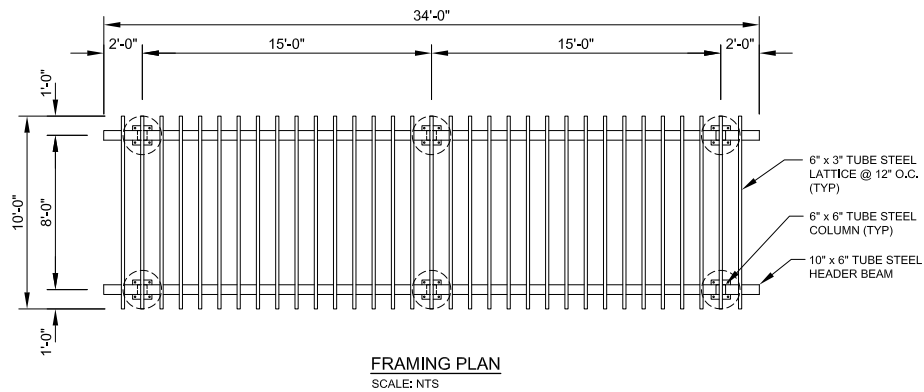
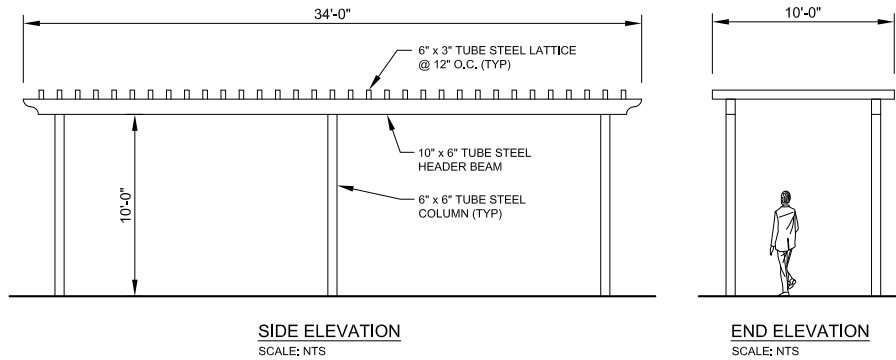
**Steel:** All structural members are ASTM A-500 U.S. grade B steel. Welded connection plates shall be ASTM A-36 hot rolled steel. Standard column dimensions shall be 6" x 6" x 3/16" tubular steel welded to a 5/8" base plate for surface mounting. Main support headers are 10" x 6" x 3/16" and lattice is 6" x 3" x 1/8". All steel connections to be bolted or screwed in place on-site. Steel sizes are preliminary and may change due to ongoing review and final engineering.

**Frame Finish:** All steel framework will receive a corrosion protective TGIC Polyester powder coat, electro-statically applied and cured at 400°F. A large selection of standard colors are available.

**Hardware:** All structural hardware shall be provided.

**Warranty:** 10 years against manufacturer defects.

**Not Included:** Concrete work of any kind, unloading of product and installation.



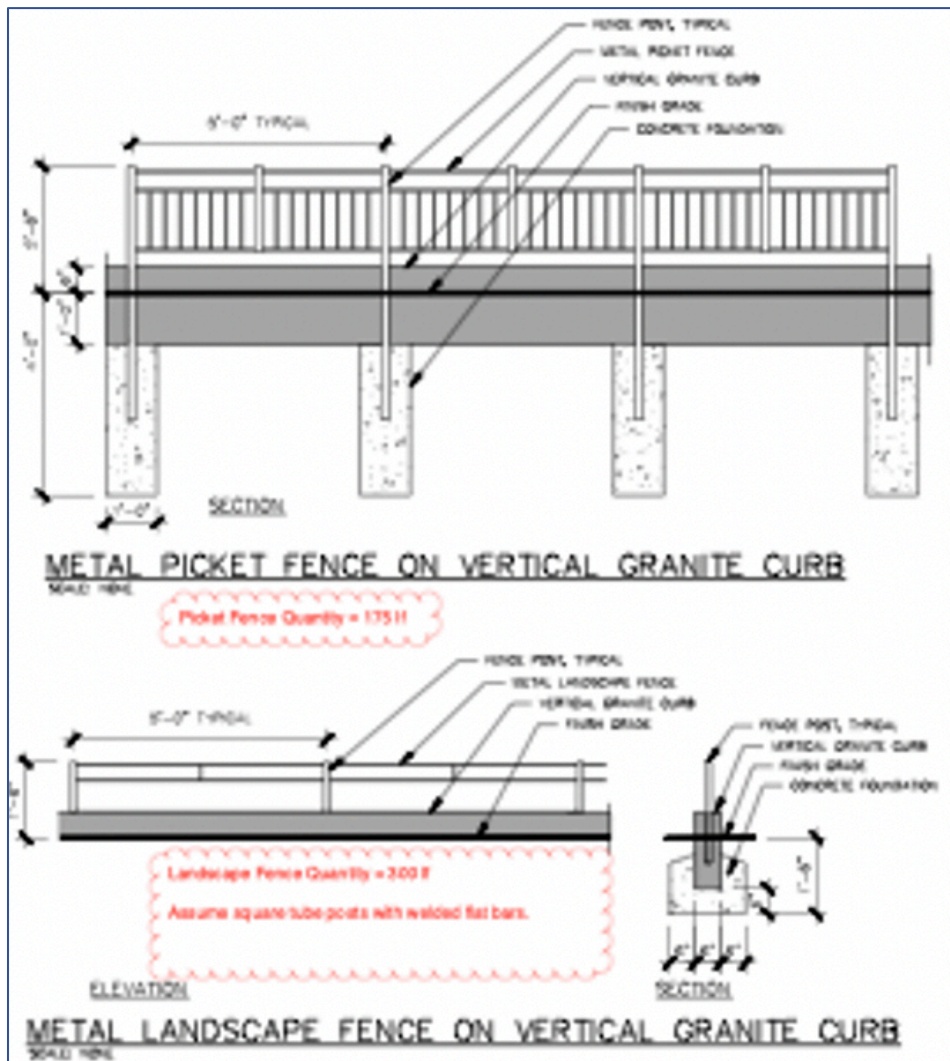
11800 East 9 Mile Road  
Warren, MI 48089  
Office: (586) 486-1088  
Fax: (586) 754-9130  
Toll Free: (800) 657-6118  
Email: Info@coverworx.net  
www.Coverworx.com

Steelworx Pergola - 10' x 34'

Model: PG-1034-SW

DESIGN SPECIFICATIONS

Crite Park pergola detail (one of three different lengths)



Crite Park – fencing detail



# Drawings and Specifications

(Separated into two files – this file is for pages 11 through 19)

## Crite Park

At intersection of Columbus Avenue and West Canton Street

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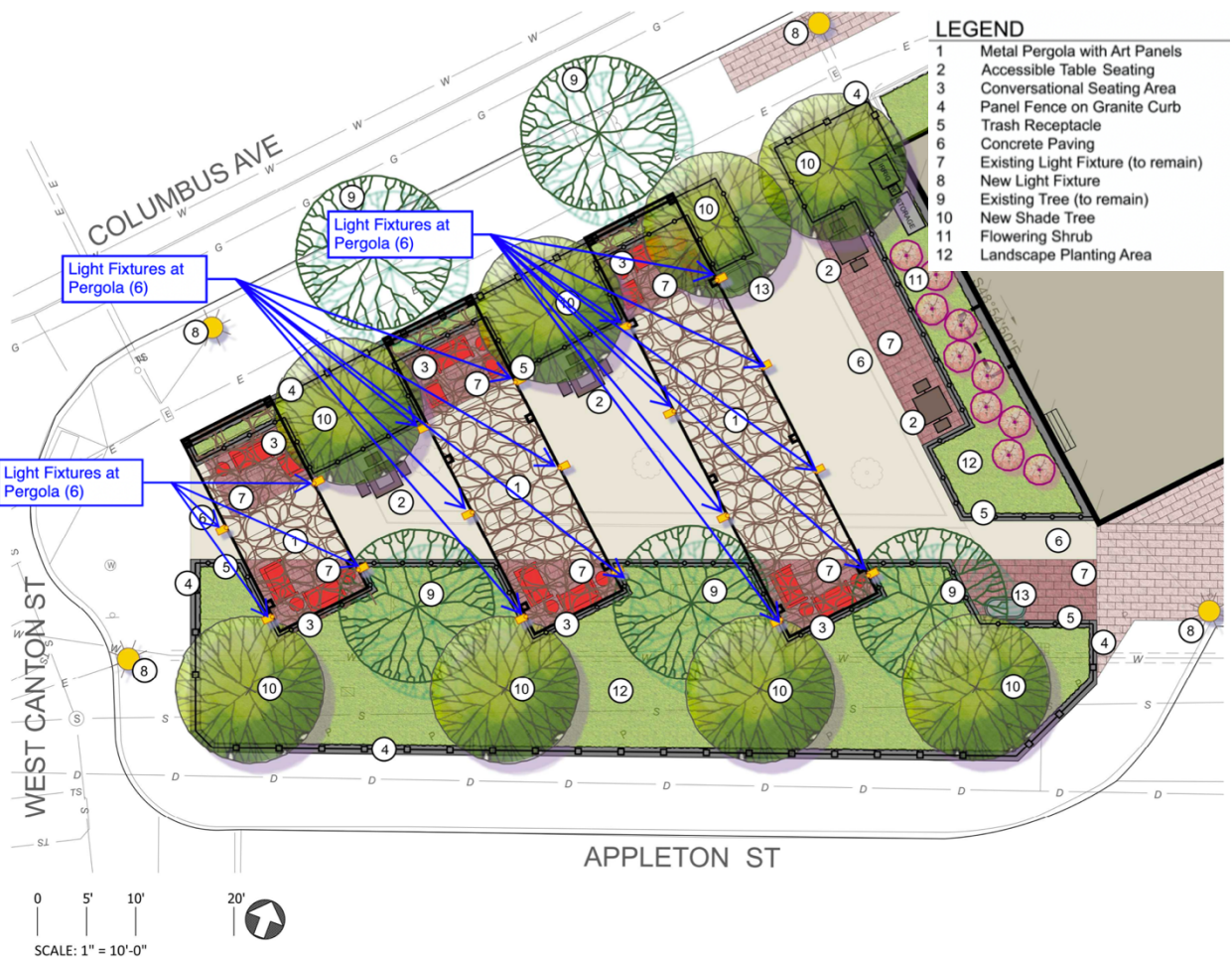
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#### Crite Park furniture

Chair and table (length varies from 30" to the loveseat at 48")  
and trash receptacle sized at 36-gallon liners  
*NOTE: final selection TBD by the City of Boston*





**CRITE PARK - Pergola Lighting Diagram**

Ellis South End Neighborhood Association  
 July 3, 2020

Crite Park lighting locations

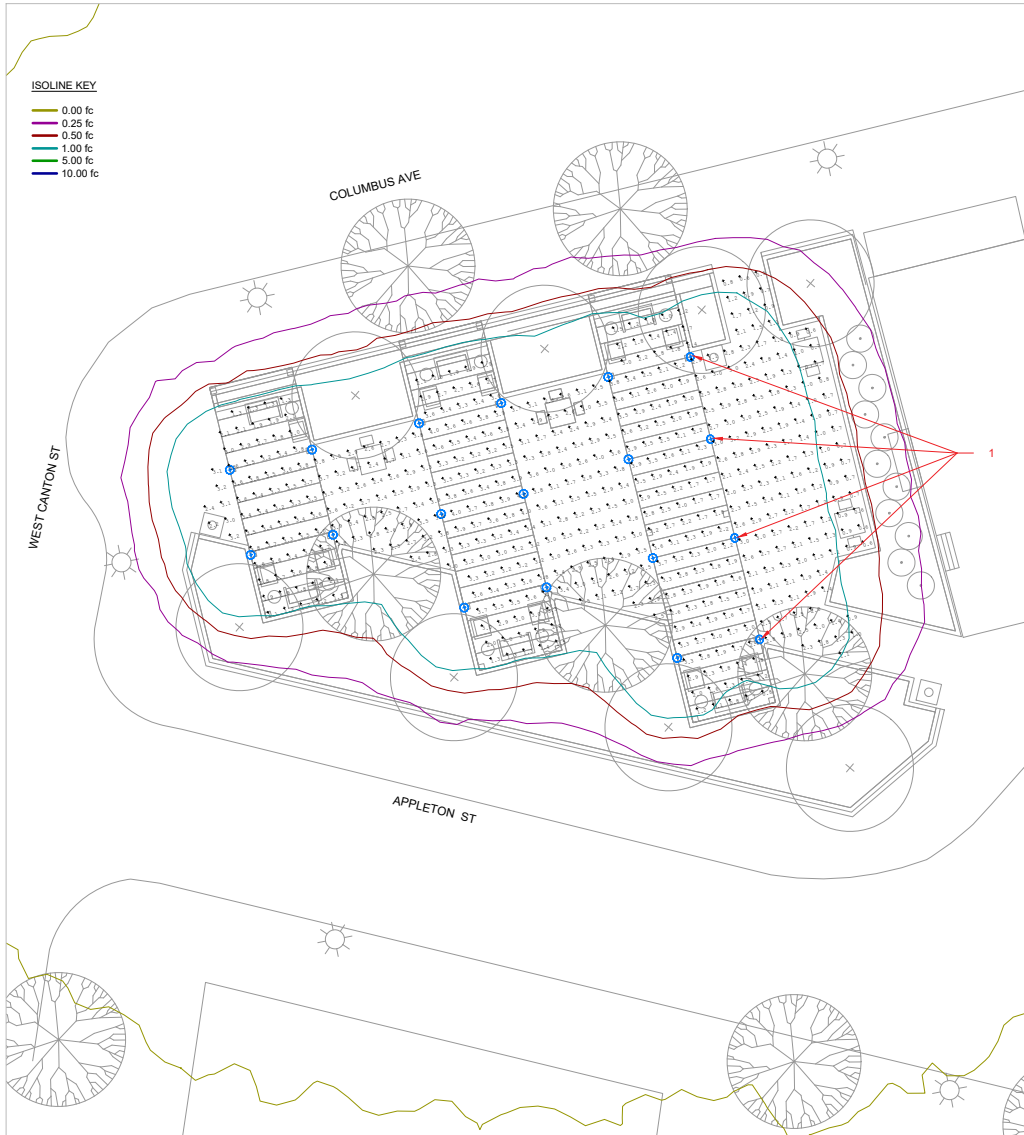
Photometric Study - Option 2

Luminaire Schedule									
Symbol	Qty	Label	Description	Arrangement	IES Class	MH	LLF	Lum. Lumens	Lum. Watts
☉	18	C	Amerlux: ACCS-27K-60	SINGLE	N.A.	10'	0.850	548	9

Note:

1. (4) Fixtures are tilted 30°

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	AvgMin	MaxMin
Crite Park	Illuminance	Fc	2.5	4.0	0.5	5.0	8.0



Project: **Crite Park**  
 Location: **Boston, MA**

Project No.: 20-3801 Sheet: 1 of 1  
 Drawing No.: PH2 Scale: N.T.S.  
 Version: 1 Date: 25JUN2020

SpecLines | 190 Main St, Sandwich, MA 02563 | 4 Railroad Ave, Ste 208, Wakefield, MA 01880 | 508.362.5337 | www.speclines.net

Crite Park Lighting  
 Photometric Study



**TREES**



*Gleditsia triacanthos var Inermis*  
Sunburst Honeylocust  
- thornless, podless  
- 40-50' height



*Hamamelis x intermedia Arnold Promise*  
Arnold Promise Witch Hazel  
- 15-20' height



*Quercus bicolor*  
Swamp White Oak  
- 40-50' height

**FLOWERING SHRUBS**



*Hibiscus syriacus White Chiffon*  
White Chiffon Rose of Sharon  
- 6-8' height



*Hydrangea quercifolia Pee Wee*  
Dwarf Pee Wee Oakleaf Hydrangea  
- 3-4' height



*Rosa x Radsunny*  
Sunny Yellow Knockout Rose  
- 3-4' height

**GROUNDCOVERS, PERENNIALS + ORNAMENTAL BULBS**



*Rhus aromatica Gro Low*  
Gro Low Fragrant Sumac  
- 2-3' height



*Allium stipitatum White Giant*  
White Giant Allium  
- 3-4' height



*Allium cernuum*  
Nodding Onion  
- clumping  
- 12-18" height



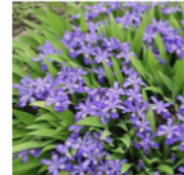
*Narcissus Mount Hood*  
White Trumpet Daffodil  
- clumping  
- 12-18" height



*Hemerocallis Joan Senior*  
Reblooming White Daylily  
- clumping  
- 18-24" height



*Iris siberica Butter and Sugar*  
White Siberian Iris  
- clumping  
- 24-30" height



*Iris Cristata*  
Dwarf Crested Iris  
- spreading  
- 3-6" height



*Lamium White Nancy*  
White Spotted Deadnettle  
- spreading  
- 6" height

**Plant Palette**

**Crite Park**

Ellis South End Neighborhood Association  
07/10/2020



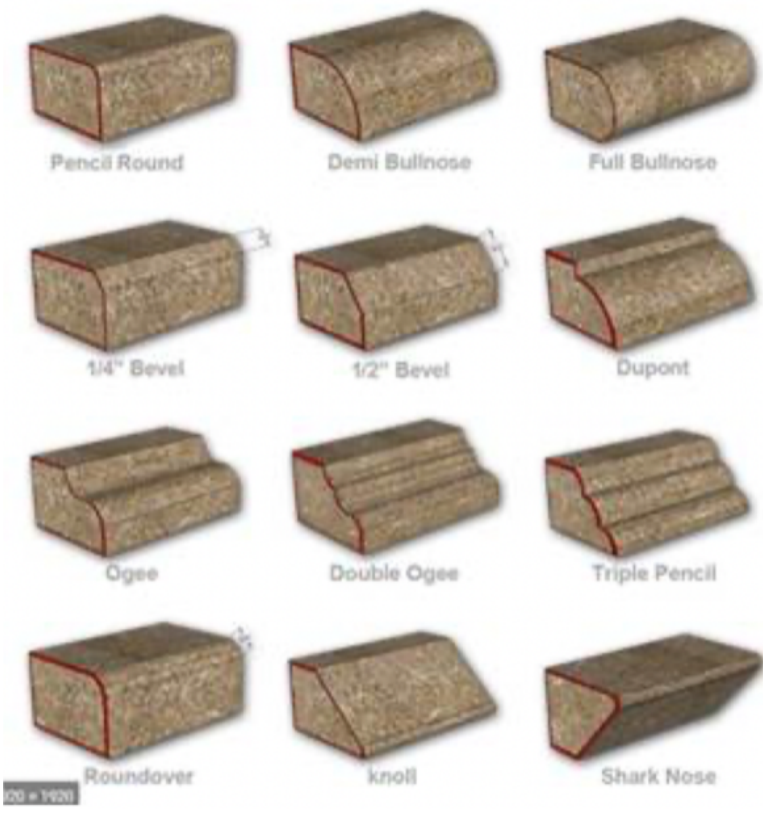
Crite Park – plantings



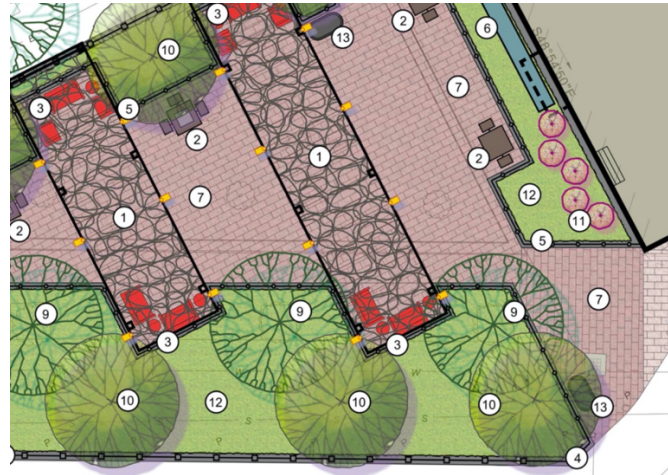
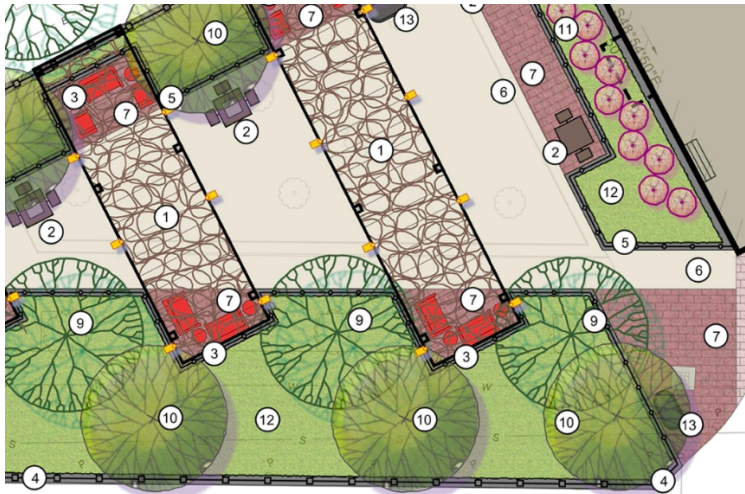


Crite Park mosaic art (Top view is ***Columbus Avenue*** by Allan Rohan Crite).  
Bottom left shows location of mosaic in Park.  
Bottom right is another similar mosaic installation in South Boston.





Crite Park Mosaic Framework  
 Art mounted on concrete base and back wall.  
 Top view is precedent image of architectural precast stone.  
 Bottom view is granite trim sample designs (customizable).



Crite Park – Alternative flooring  
 Left view - Brick and concrete. Right view – All brick



Estimate on construction costs include SOME materials - See total project costs in another document



Project: Crite Pa Calc.: CB  
 Location: Columbus Ave Boston Checked: \_\_\_\_\_  
 Subject: Concept Estimate Date: 10/20  
 Revised: \_\_\_\_\_

Item Description	Quantity P1	UOM	Unit Cost	Subtotal P11	Quantity P2	Subtotal P12	Notes comments
<b>DIVISION 1 GENERAL REQUIREMENTS</b>							
Traffic Protection	3	EA	\$ 325.00	\$975.00		\$0.00	
Clean Catch Basin	4	EA	\$ 700.00	\$2,800.00		\$0.00	
Catch Basin Protection (all catch)	4	EA	\$ 375.00	\$1,500.00		\$0.00	
Construction fence	220	LF	\$ 8.50	\$1,870.00		\$0.00	
Construction entrance along beam	20	LF	\$ 200.00	\$4,000.00		\$0.00	
Site utilities (available on site if needed)	220	LF	\$ 12.00	\$2,640.00		\$0.00	
<b>Div. 1 General Subtotal</b>				<b>\$13,785.00</b>		<b>\$0.00</b>	
<b>DIVISION 2 SUBSURFACE INVESTIGATION AND DEMOLITION</b>							
Remove and Dispose of Top and Storm 12"	6	EA	\$ 600.00	\$3,600.00		\$0.00	
Remove and Dispose of Storm	6	EA	\$ 600.00	\$3,600.00		\$0.00	
Clear and grade brick	1,130	SF	\$ 1.50	\$1,695.00		\$0.00	
Remove brick wall	155	SF	\$ 30.00	\$4,650.00		\$0.00	
Saw cutting pavement (asphalt)	0	LF		\$0.00		\$0.00	
Saw cutting pavement (concrete)	0	LF		\$0.00		\$0.00	205 if conc base under bricks
Remove and Dispose of Cement Concrete Pavement	1,520	SF	\$ 3.50	\$5,320.00		\$0.00	
Remove and Dispose brick pavers	1,820	SF	\$ 6.75	\$12,285.00		\$0.00	
Remove bollards	12	EA	\$ 100.00	\$1,200.00		\$0.00	
<b>Div. 2 Demolition Subtotal</b>				<b>\$33,050.00</b>		<b>\$0.00</b>	
<b>DIVISION 3 CONCRETE/PAVING</b>							
Wine out brick P pavement w/Concrete base	1,850	SF	\$ 35.00	\$64,750.00		\$0.00	
Reinforced Cement Board Concrete	100	SF	\$ 15.00	\$1,500.00		\$0.00	
Reinforced Cement Concrete walls for mosaic 12"x6"				\$0.00		\$0.00	
Mosaic wall foundation - 4' depth	1	EA	\$ 7,500.00	\$7,500.00		\$0.00	
Mortared granite coping for mosaic wall	40	LF	\$ 12.00	\$480.00		\$0.00	
<b>Div. 3 Concrete Sub total</b>				<b>\$74,230.00</b>		<b>\$0.00</b>	<b>\$74,230.00</b>
<b>DIVISION 31 EARTHWORK</b>							
Excavated Material Not Drained On Site	1,546	CF	\$ 2.50	\$3,865.00		\$0.00	
Compacted gravel expanded and sealed	1,850	SF	\$ 1.75	\$3,237.50		\$0.00	
Gravel base (6" depth)	925	SF	\$ 1.50	\$1,387.50		\$0.00	
Rough/ Fine Grading	3,996	SF	\$ 1.25	\$4,245.00		\$0.00	
24" loam Topsoil	1,895	SF	\$ 3.00	\$5,685.00		\$0.00	
<b>Div 31 Earthwork Sub total</b>				<b>\$18,333.00</b>		<b>\$0.00</b>	<b>\$18,333.00</b>
<b>DIVISION 32 EXTERIOR IMPROVEMENTS</b>							
<b>FURNISHINGS</b>							
Chair	8	EA	\$ 250.00	\$2,000.00		\$0.00	installation costs only
Liter recycling bin	2	EA	\$ 500.00	\$1,000.00		\$0.00	installation costs only
Storage bin	1	EA	\$ 500.00	\$500.00		\$0.00	installation costs only
Table	4	EA	\$ 700.00	\$2,800.00		\$0.00	installation costs only
Stools	8	EA	\$ 700.00	\$5,600.00		\$0.00	installation costs only
Benches	12	EA	\$ 775.00	\$9,300.00		\$0.00	installation costs only
Mosaic tile wall tiles for 6"x12" mural	1	EA	\$ 1,500.00	\$1,500.00		\$0.00	installation costs only
Pavers - 22" x 10" w x 10H	1	EA	\$ 17,000.00	\$17,000.00		\$0.00	footings + installation only, include electrical work for lighting + GFCI
Pavers - 24" x 10" w x 10H	1	EA	\$ 23,550.00	\$23,550.00		\$0.00	footings + installation only, include electrical work for lighting + GFCI
Pavers - 46" x 10" w x 10H	1	EA	\$ 37,000.00	\$37,000.00		\$0.00	footings + installation only, include electrical work for lighting + GFCI
<b>Subtotal</b>				<b>\$101,800.00</b>			
<b>BARRIERS</b>							
Steel rebar fence outer 30" with 4' footings	172	LF	\$ 100.00	\$17,200.00		\$0.00	installation costs only
Steel rebar fence inner 18" with 2' footings	300	LF	\$ 100.00	\$30,000.00		\$0.00	installation costs only
Granite curb 4' width	475	LF	\$ 90.00	\$42,750.00		\$0.00	
<b>Subtotal</b>				<b>\$79,950.00</b>			
<b>PLANTINGS</b>							
Landscape Area planting	1,895	SF	\$ 2.75	\$5,131.50		\$0.00	
Shrub planting	8	EA	\$ 130.00	\$1,040.00		\$0.00	
Tree planting 2" cal	8	EA	\$ 1,300.00	\$10,400.00		\$0.00	
<b>Subtotal</b>				<b>\$16,571.50</b>			
<b>IRRIGATION</b>							
Irrigation controller & solar syst	1	LS	\$ 4,500.00	\$4,500.00		\$0.00	
Establish water connection	1	EA	\$ 15,000.00	\$15,000.00		\$0.00	
Drop irrigation lines & Zones	622	SF	\$ 7.50	\$4,665.00		\$0.00	
<b>Div 32 Exterior Sub total</b>				<b>\$24,736.50</b>		<b>\$0.00</b>	<b>\$24,736.50</b>
<b>DIVISION 33 UTILITIES</b>							
<b>Drainage</b>							
Drainage manhole adjusted	1	EA	\$ 300.00	\$300.00		\$0.00	
<b>Subtotal</b>				<b>\$300.00</b>			
<b>Electrical</b>							
Load center upgrade	0	LS		\$0.00		\$0.00	
pavers lights	10	EA	\$ 750.00	\$7,500.00		\$0.00	installation costs only
mosaic wall lights	2	EA	\$ 750.00	\$1,500.00		\$0.00	installation costs only
GFCI outlets	6	LF	\$ 350.00	\$2,100.00		\$0.00	
2" electrical conduit		LF		\$0.00		\$0.00	
<b>Subtotal</b>				<b>\$11,100.00</b>			
<b>Water</b>							
3/4" PEX WATER LINE	10	LF	\$ 120.00	\$1,200.00		\$0.00	
2" PEX water line	20	LF	\$ 150.00	\$3,000.00		\$0.00	
locking frost free yard hydrant hose bib	1	EA	\$ 1,500.00	\$1,500.00		\$0.00	
Backflow preventer	1	EA	\$ 3,750.00	\$3,750.00		\$0.00	
Backflow cabinet	1	EA	\$ 6,000.00	\$6,000.00		\$0.00	
Brass isolation valve	2	EA	\$ 475.00	\$950.00		\$0.00	
Water meter	1	EA	\$ 4,500.00	\$4,500.00		\$0.00	
Water curb	1	EA	\$ 750.00	\$750.00		\$0.00	
<b>Div. 33 Utilities Subtotal</b>				<b>\$33,050.00</b>		<b>\$0.00</b>	<b>\$33,050.00</b>
<b>Sub total</b>				<b>\$390,184.50</b>		<b>\$0.00</b>	<b>\$390,184.50</b>
Project Total without mark ups				\$429,202.95		\$0.00	
contingency	LIIMP	0.10		\$44,916.30		\$0.00	
Mobilization (3% of Total)	LIIMP	0.03		\$12,876.14		\$0.00	
Demobilization (2% of Total)	LIIMP	0.02		\$8,584.06		\$0.00	
General conditions	X	0.12		\$51,504.55		\$0.00	
<b>Total Project Cost</b>				<b>\$547,083.99</b>		<b>\$0.00</b>	<b>\$547,083.99</b>

Crite Park Construction Estimates  
 (limited materials included see total project costs on next page)

<b>Project Name:</b>	<b>Crite Park</b>				<b>Date:</b>	<b>13-Nov-20</b>
<b>Organization:</b>	<b>Friends of Crite Park</b>					
<b>SOURCES / INCOME*</b>						
<b>Source</b>	<b>Amount</b>		<b>Status in hand</b>	<b>Status pending</b>	<b>Status applied</b>	
Private Donations	\$23,750		\$7,782	0	\$15,968	
<b>TOTAL</b>	<b>\$23,750</b>		<b>\$7,782</b>	<b>\$0</b>	<b>\$15,968</b>	
<b>USES / EXPENSES*</b>						
	<b>CPA fund budget</b>	<b>CPA funds spent</b>	<b>Other expenses</b>	<b>Other funds spent</b>	<b>Total Project Costs</b>	
<b>Soft costs line items</b> (design & non-construction costs)						
BSC Existing Conditions	-\$14	\$0	\$0	\$6,814	\$6,800	
BSC PIC Permitting	\$872	\$0	\$0	\$2,528	\$3,400	
BSC Landscape Design	\$174	\$0	\$0	\$5,326	\$5,500	
BSC Public Meetings	\$285	\$0	\$0	\$1,215	\$1,500	
BSC Expenses	\$515	\$0	\$0	\$85	\$600	
BSC Additional support and contingency	\$4,600	\$0	\$0	\$0	\$4,600	
BSC design + CA (Construction Admin) fees	\$90,000	\$0	\$0	\$0	\$90,000	
<b>Building line items</b> (construction costs)						
Site Preparation						
Demo, earthwork, foundations, sub base, surfacing	\$177,035	\$0	\$0	\$0	\$177,035	
Utilities	\$66,174	\$0	\$0	\$0	\$66,174	
Exterior Materials						
Pergola	\$245,768	\$0	\$0	\$0	\$245,768	
Lighting	\$38,297	\$0	\$0	\$0	\$38,297	
granite	\$36,195	\$0	\$0	\$0	\$36,195	
Fencing	\$121,763	\$0	\$0	\$0	\$121,763	
Tree	\$26,408	\$0	\$0	\$0	\$26,408	
Furniture	\$97,986	\$0	\$0	\$0	\$97,986	
Plantings	\$36,768	\$0	\$0	\$0	\$36,768	
Moasic	\$23,905	\$0	\$0	\$0	\$23,905	
<b>TOTAL</b>	<b>\$966,731</b>	<b>\$0</b>	<b>\$0</b>	<b>\$15,968</b>	<b>\$982,699</b>	

Crite Park Construction Estimate - Complete