RIVETING JOHNSTON SQUARE

INTEGRATING EQUITABLE DESIGN SOLUTIONS

JONATHAN RINGENBACH | LARCH 414 BALTIMORE STUDIO | SPRING 2018
THE PENNSYLVANIA STATE UNIVERSITY | L. GORRENFELO

DESIGN INTENT

1) CONNECT TO RICH NAVAL HISTORY AND INNER HARBOR

THE DESIGN CONCEPT I WISH TO EXPLORE IS IN RESPONSE TO BALTIMORE'S RICH ECONOMIC AND HISTORICAL PRESENCE IN NAVAL ACTIVITIES. DUE TO THE GEOGRAPHIC LOCATION OF BALTIMORE BETWEEN THE ATLANTIC COAST AND INTERIOR UNITED STATES, IT QUICKLY BECAME A KEY HUB FOR INDUSTRIAL NAVAL PRODUCTION, ESPECIALLY AROUND BOTH

2) INSPIRED BY NAVAL "RIVETS" OR FASTENERS THAT LINK THE SHIP HULL TOGETHER

WORLD WARS. IN THEORY, THE SHIP IS ONLY AS STRONG AS THE WEAKEST RIVET. EACH ONE OF THESE RIVETS BECOMES A BINDING ELEMENT TO HOLD THE SHIP TOGETHER. LIKE THE RIVETS ON A SHIP, GREENMOUNT AVENUE IS THE KEY TO CREATING A COHESIVE AND VIBRANT LINK EXISTING AND FUTURE ELEMENTS IN JOHNSTON SQUARE. THESE AMENITIES ARE DIVERSE IN

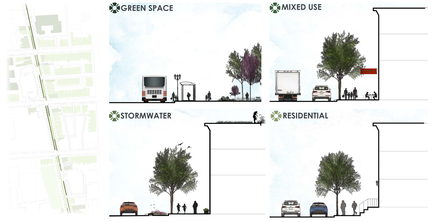
3) SERIES OF NODES "REVITED" BY AN IMPROVE GREENMOUNT AVENUE STREETSCAPE

CHARACTER, YET SHARE A COMMON GOAL TO PROMOTE VIBRANT SPACES FOR RESIDENTS TO LIVE, WORK AND PLAY. JOHNSTON SQUARE'S UNIQUE HISTORY WILL GUIDE DESIGN DECISIONS, AS THE PROJECT SEEKS TO PRESERVE THE STRENGTHS OF NEIGHBORHOOD, INTEGRATE AND CREATES NEW FEATURES AND MANAGE FOR THE FUTURE.

PROJECT SCHEMATICS + GOALS

JOHNSTON SQUARE SCHEMATICS

STREETSCAPE TYPOLOGY



FUTURE VISION FOR JOHNSTON SQUARE

- 5 NEW BUS SHELTERS-
- 52 NEW LIGHT FIXTURES-
- 9 NEW WASTE STATIONS-

+ 22 EXISTING TREES TO 191 PROPOSED TREES

+ TWO MATURE TREES CAN PRODUCE ENOUGH OXYGEN FOR A FAMILY OF FOUR.

+ CANOPY INCREASE OF APPROXIMATELY 38, 250 SQ FEET

+ CREATED HABITAT OF APPROXIMATELY 535,500 CU FEET

+ OVER 22,400 SQ FT OF PROPOSED POROUS PAVEMENT

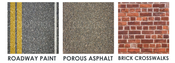
+ OVER 3,200 SQ FT OF PROPOSED BIO-RENTITION

COMMUNITY IDENTIFIERS

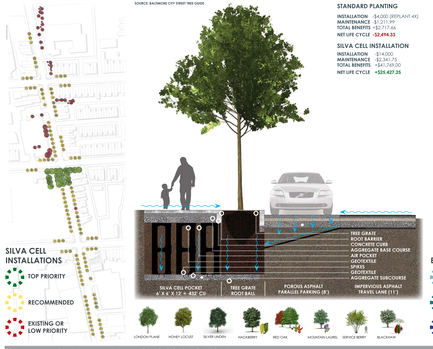
TRANSPORTATION

SITE FURNISHINGS

PAVING



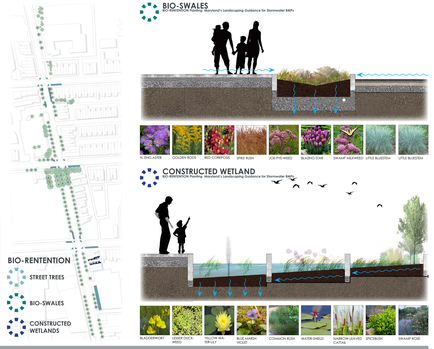
STREET TREE IMPLEMENTATION



STANDARD PLANTING
INSTALLATION - $4,000 (REPLANT 4X)
MAINTENANCE - $1,211.99
TOTAL BENEFITS - $2,717.66
NET LIFE CYCLE - $2,494.33

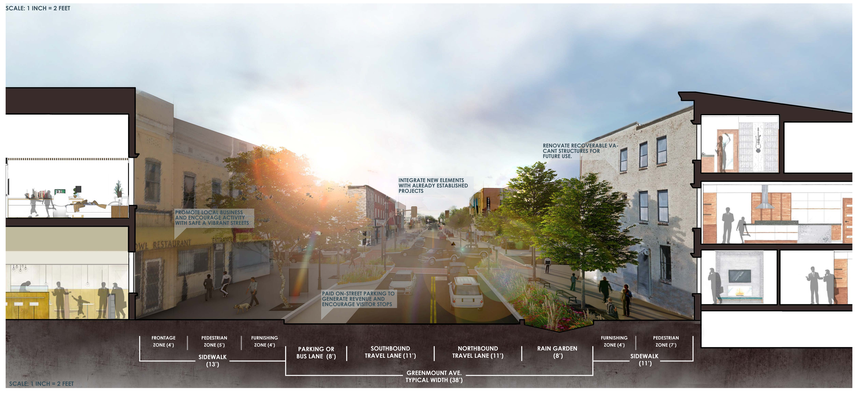
SILVA CELL INSTALLATION
INSTALLATION - $14,000
MAINTENANCE - $2,341.75
TOTAL BENEFITS - $41,749.00
NET LIFE CYCLE - $25,457.25

STORMWATER MANAGEMENT

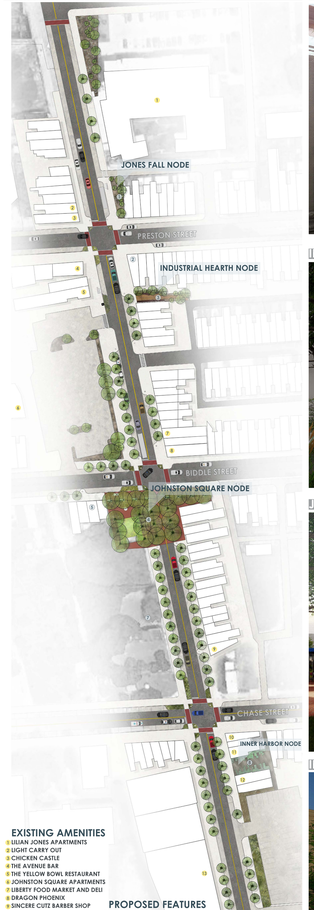


GREENMOUNT AVENUE CROSS SECTION

SCALE: 1 INCH = 2 FEET



GREENMOUNT AVE. COMMUNITY PLAN



EXISTING AMENITIES

1. LILIAN JONES APARTMENTS
2. LIGHT CARRY OUT
3. CHICKEN CASTLE
4. THE AVENUE BAR
5. THE YELLOW BOWL RESTAURANT
6. JOHNSTON SQUARE APARTMENTS
7. LIBERTY FOOD MARKET AND DELI
8. DRAGON PHOENIX
9. SINCERE CUTZ BARBER SHOP
10. HI-MART
11. PLATINUM UNISEX
12. PENN LIQOURS AND GROCERY
13. R.E. MICHAEL COMPANY
14. TAI YA
15. BOOST MOBILE
16. HAPPY MARKET
17. SUNGS CARRY OUT

PROPOSED FEATURES

1. JONES FALLS NODE
2. MIXED USED UNIT
3. INDUSTRIAL HEARTH NODE
4. JOHNSTON SQUARE NODE
5. JOHNSTON SQUARE NODE UNITS
6. MIXED USE UNIT
7. JOHNSTON SQUARE ATHLETICS FACILITY
8. INNER HARBOR NODE

JONES FALL NODE

INDUSTRIAL HEARTH NODE

JOHNSTON SQUARE NODE

INNER HARBOR NODE