City of San Jose

Green Street Demonstration Projects

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Public Works Department
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San Jose Green Street Demonstration Projects

- State Water Resources Control Board Proposition 84 Stormwater Grant Funding
  - Grant funding for public agencies for reduction or prevention of stormwater contamination of rivers, lakes, and streams through Low Impact Development (LID)

- Proposals evaluated by the State Water Resources Control Board
  - October 2012 - Funding granted for two conceptual designs by the City of San Jose - Martha Gardens Green Alleys Pilot Project and Park Avenue Green Street Pilot Project

- Project Design and Construction by the City of San Jose Department of Public Works

- Project Funding and Stormwater Monitoring managed by the City of San Jose Environmental Services Department
Martha Gardens – Location Map
Martha Gardens Green Alleys

- Three segments of alleyways extending from Margaret Street to Martha Street, between Second and Third Streets (approximately 1300 linear feet)

- Re-grading of alleyways and Replacement of AC Pavement with “Green” Concrete

- Installation of Infiltration Trench with Permeable Pavers along the center of each alleyway
  - Soils report confirmed Sandy Lean Clay layer at infiltration trench depth (approximately 5 feet)
  - Perforated 12-inch HDPE pipe
  - Dry well bubbler with linear grate
  - Standard Manhole Access approximately every 500 feet for maintenance
Martha Gardens Green Alleys

- Infiltration Trench design is Volume Based using CASQA’s Stormwater BMP Handbook Approach
  - Designed to store and infiltrate C3.d volume with 12-inch perforated pipe located approximately 3 feet above trench bottom (2 feet cover required for loading)
  - Trench gently slopes towards dry well

- Trench section was designed to meet H20 loading requirements
  - Used Interlocking Concrete Pavement Institute Software to verify structural integrity and infiltration through pavers
Martha Gardens Green Alleys - Schedule

- Anticipated Construction Start - October 2013
- Anticipated Construction Completion – February 2014
- Pre, During, and Post-construction Stormwater Quality Monitoring required
- Anticipated Construction Costs – approx. $1.05M
Martha Gardens Alleyways
Martha Gardens Green Alleyways
Martha Gardens Green Alleys – Conceptual Plans

CITY OF SAN JOSE
DEPARTMENT OF PUBLIC WORKS
PLANS FOR:
MARTHA GARDENS GREEN ALLEYS PILOT PROJECT
MARGARET STREET TO MARTHA STREET

LOCATION MAP
NOT TO SCALE
Martha Gardens Green Alleys – Conceptual Plans
Martha Gardens Green Alleys – Conceptual Plans
Martha Gardens Green Alleys – Conceptual Plans
Martha Gardens Green Alleys – 90% Plans
Trench Detail

TYPICAL CROSS SECTION
Martha Gardens Green Alleys – 90% Plans
Trench Longitudinal Detail
Martha Gardens Green Alleys – 90% Plans
Dry Well Detail
Martha Gardens Green Alleys –
Sample Hydro-flo Paver Installations

Santa Barbara, CA

Carmel, CA
Park Avenue Green Street Project
**Park Avenue Green Street Project**

- Project located between Meridian Avenue and Sunol Avenue

- Stormwater treatment features will enhance already planned bike and pedestrian improvements along Park Avenue

- Project will install as many biotreatment areas (rain gardens) as possible within project limits (17 potential locations identified during conceptual design stage)
Park Avenue Green Street Project

- Anticipated Construction Start Date June 2014
- Anticipated Construction Completion Date January 2015
- Pre-, During, and Post-construction Stormwater Quality Monitoring Required
- Anticipated Construction Costs $860,000
Park Avenue
Park Avenue Green Street Project – Conceptual Plans

CITY OF SAN JOSE
DEPARTMENT OF PUBLIC WORKS
PLANS FOR
PARK AVENUE
IMPROVEMENT PROJECT
(MERIDIAN AVENUE TO MCEVOY STREET)

LOCATION MAP
NOT TO SCALE

PROJECT LOCATION

3/1/2013
Park Avenue Green Street Project – Conceptual Plans
Park Avenue Green Street Project – Conceptual Plans
Park Avenue Green Street Project – Conceptual Plans

PARK AVENUE IMPROVEMENT PROJECT
(Between Meridian Avenue To McEvoy Street)
CONCEPTUAL PLAN
Green Street Demonstration Projects – Questions?

Feel Free to Contact Us
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