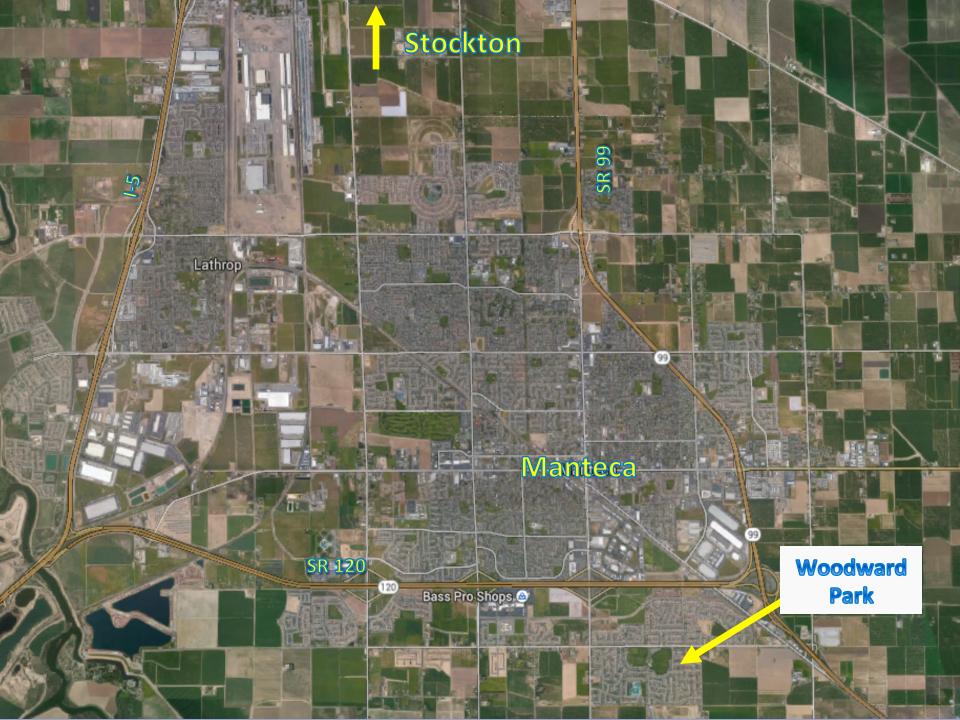
# CITY OF NEWMAN LOW IMPACT DEVELOPMENT (LID) PROJECTS AND BENEFITS

**APRIL 30, 2015** 

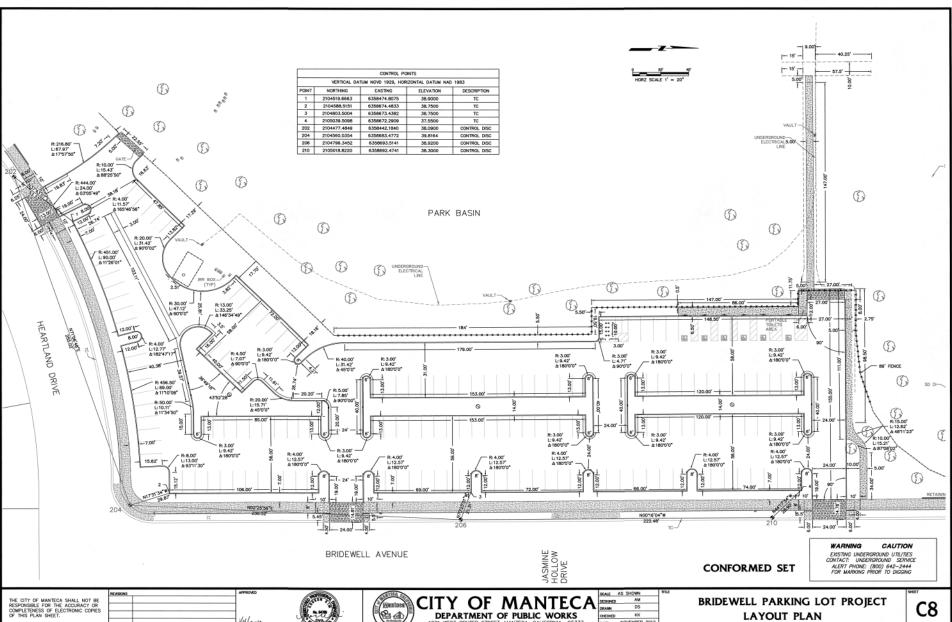
KOOSUN KIM, PE, QSD PUBLIC WORKS DIRECTOR

#### **MEDIUM-SCALE LID**

- **□** 2.4-acre New Parking Lot
- ☐ 164 New Parking Stalls
- **□** ADA Access Ramp to the existing Parks
- ☐ LED Lights and AB 1881 Compliance
- **☐** No Direct Storm Discharge to Drainage System
- **☐** No Storm Drainage Filtering System
  - = Low Impact Development (LID) System



#### **Woodward Parks New Parking Lot**















































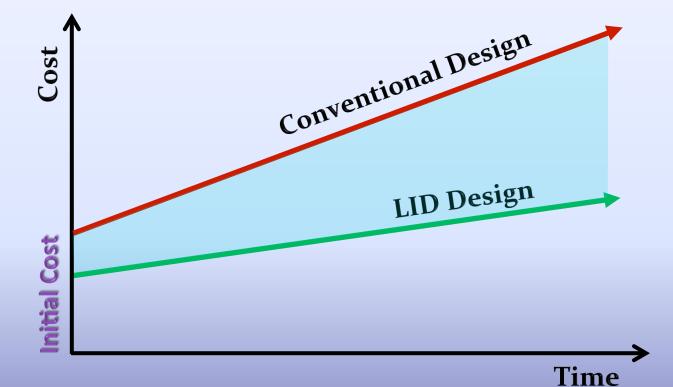






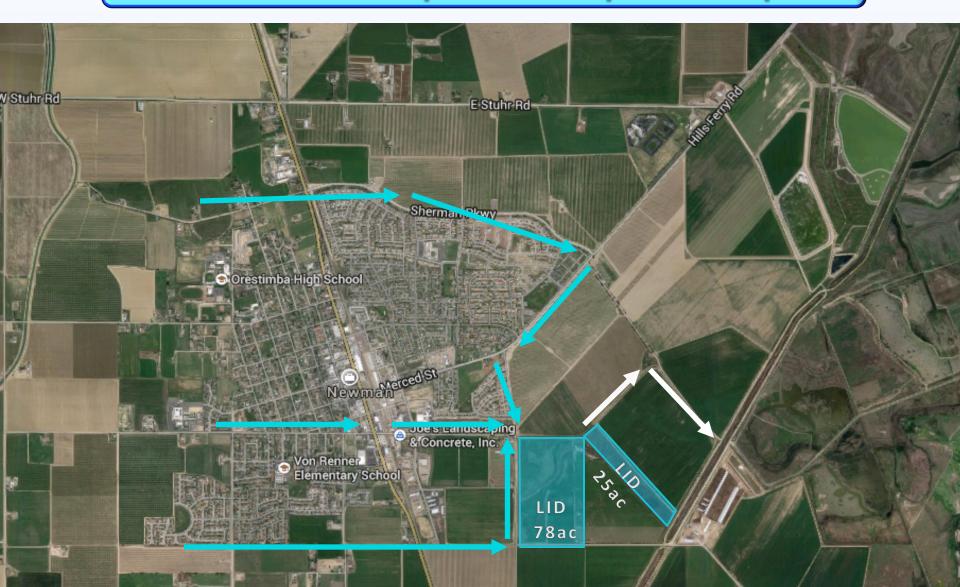
#### **LID BENEFITS**

- ☐ Over 20% Cost Saving
- **☐** No Maintenance Costs for Storm Filters/CDS Unit
- ☐ Combination of LID: Bioswale and Bioretention

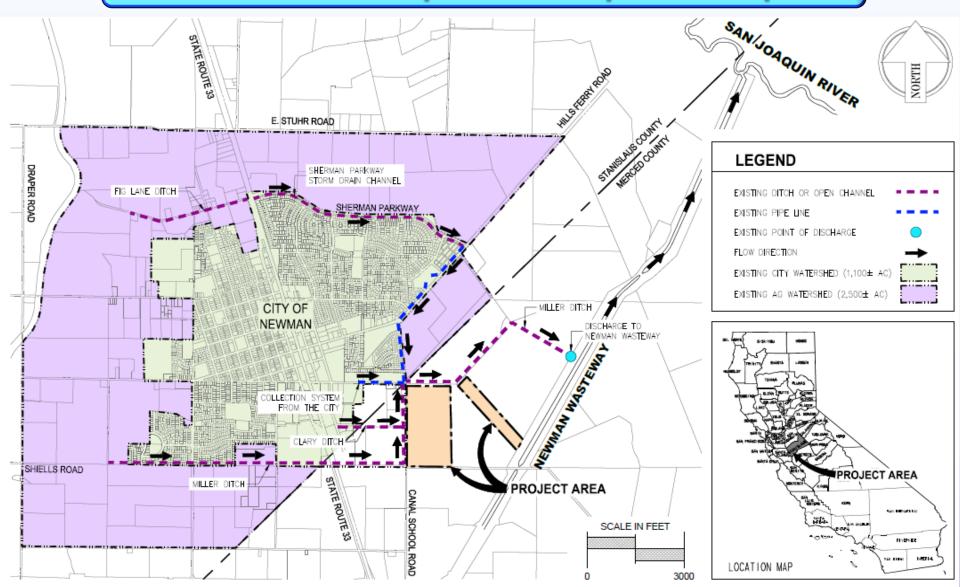




#### LARGE-SCALE LID















#### LID BENEFITS

Reduce discharge of sediment and pollutants into SJ River Improve quality of municipal and AG drainage discharge water Reuse treated water for irrigation of City properties or sale **Preserve Open Space and Improve flood protection** Provide recreational enhancements for bike, pedestrian and other recreational uses **Pubic Outreach and Education** Solar System per RES-BCT (Renewable Energy Self-Generation **Bill Credit Transfer) Program** 



# O & A

