



DEVELOPMENT SERVICES

ENGINEERING DIVISION

DIVISION DESCRIPTION

The Engineering Division is responsible for managing and delivering the City's capital improvement program, which involves planning, engineering, budgeting, and construction of all capital improvement projects. The Division provides plan review services; processes boundary adjustment plats, street right-of-way easements, dedications, parcel maps, and tract maps; plans and implements the storm water discharge program; administers the City's pavement management system; manages the undergrounding of overhead utility lines; provides engineering staff reports and recommendations to the City Council, Planning Commission and committees as required. The Engineering Division maintains professional working relationships with the citizens of National City; community organizations; local business owners and private developers; local, state, and federal agencies; consultant engineering firms; and contractors. The Engineering Division also coordinates with the City Manager's Office and other departments regarding project development and community services, including public safety and quality of life.

The Engineering Division is responsible for ensuring compliance with NPDES Permit No. R9-2007-01 issued by the Regional Water Quality Control Board. As a requirement of the permit, the Engineering Division is tasked with preparing and enforcing the Jurisdictional Urban Runoff Management Plan (JURMP) - the plan used to reduce the discharge of pollutants to our water bodies to the maximum extent practicable, and the Standard Urban Stormwater Mitigation Plan (SUSMP) - the plan designed to reduce pollutants and runoff flows from new development and significant redevelopment.

In addition, one of the key functions of the Engineering Division is traffic engineering, which involves monitoring existing traffic conditions, designing and facilitating projects to enhance safety and operations, and working with the Community to address concerns through public outreach and education. The City Engineer serves as Secretary to the Traffic Safety Committee, a panel of five volunteers from the Community appointed by City Council, whose primary function is to review and make recommendations on matters related to vehicular and pedestrian safety. The Traffic Safety Committee provides members of the Community an opportunity to present issues related to parking, speeding, sight distance/visibility, school zone safety, pedestrian safety and access, and traffic control.

Traffic engineering services include:

- Parking assessments, sight distance evaluations, speed surveys and counter measures, traffic signal / traffic control warrant analyses, traffic collision analysis, implementation of traffic calming measures, and pedestrian safety and access enhancements;
- Engineering and planning for smart growth redevelopment, including traffic circulation, traffic calming, pedestrian and streetscape enhancements, connectivity to transit routes and centers, upgrades to bicycle facilities, and improved walkability;
- Traffic signal timing and coordination, traffic monitoring, and equipment upgrades to the City's QuicNet Traffic Signal System / Fiber Optic Interconnect Network;
- Review of traffic signal plans, corridor improvement plans, site plan circulation and access, and traffic control plans;
- Preliminary design, engineering and preparation of bid document plans and specifications for transportation capital improvement projects;
- Preparation of grant applications to obtaining funding for transportation capital improvement projects;



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- Presentations to City Council and City Planning Commission, local schools, Neighborhood Councils and other organizations to update the Community on upcoming transportation improvement projects, including the City's Safe Routes to School Program;
- Review of the state-of-the-practice for school zone safety including in-roadway lighting for crosswalks, flashing beacons, vehicle speed feedback signs, roundabouts, corner bulb-outs, and other traffic calming measures;
- Long-range planning for transportation network enhancements.