

CHAPTER 7. RECOMMENDED MASTER PLAN IMPROVEMENTS

OVERVIEW

Chapter 5 presented analyses and recommendations for drainage facility improvements to eliminate existing deficiencies and to serve new development in Manteca. Projects are recommended that will help drainage facilities meet City standards, provide capacity for expansion within the City and extend facilities into new growth areas as defined by the 2003 General Plan.

Some of the projects within this Master Plan are projects that will require Environmental Impact Reports (EIRs), planning, predesign, and approvals from other agencies before project design and construction can begin. This process will take several years to complete. It is recommended that the City begin this process as soon as possible for the major projects involving capacity increases on the FCOC and for the future south drain connection through Drains 10 and 11. It is also recommended that growth projections through the SWMM model be created as an indicator of when these critical projects will be needed. This will provide the City with a schedule indicating when each phase of the project must be started in order to complete the projects on time.

Drainage improvements are recommended for Drains 3, 4, 5, 7 and 8. New drains to serve General Plan growth areas include Drain 3N to serve Manteca's north area and the South Drain to serve the growing south area.

This Master Plan update brings together projects and recommendations originally proposed in previous master plans. Previous recommendations not implemented were analyzed along with new solutions and were included, deleted or modified for inclusion in this update. Projects were selected that would provide drainage capacity for present needs and to meet the projected increased runoff.

Cost estimates are master planning level estimates. As projects advance through preliminary design and preparation of plans and specifications, cost estimates will be made in greater detail and with greater precision. The cost estimates presented in this chapter are for decision making and budgeting purposes only and address the most critical drainage system needs.

Scheduling of expenditures is based on the 1993 Public Facilities Implementation Plan (PFIP). As this report is used in the preparation of the 2004 PFIP, changes in phasing dates and scheduling of expenditures are expected.

Recommended projects are subtotaled by Drainage Financing Zone.

Cost data are included in Chapter 8.

A summary of all recommended master plan improvements is presented below for each of the major drain systems.

Master Plan Projects along The FCOC:

The FCOC improvements are planned to solve existing problems and meet future City drainage needs. All projects are enlarged culvert road crossings and need to be scheduled in the immediate future.

| | |
|------------------------|---|
| French Camp Road | Replace 66-inch culvert with two 10-foot by 10-foot box culverts |
| Roth Road | Replace 42-inch and 48-inch culverts with two 10-foot by 10-foot box culverts |
| Union Pacific Railroad | Replace 42-inch and 36-inch culverts with two 10-foot by 10-foot box culverts |
| Louise Road | Replace 48-inch and 36-inch culverts with two 10-foot by 10-foot box culverts |
| Farm Road | Replace 2-36-inch culverts with 10-foot by 8-foot box culvert |

Zone 31 and 32 Master Plan Projects along Drain 3

Projects include Drain 3 improvements, construction of Drain 3 North and connection of Drain 3A to the new Drain 3N.

- Drain 3N, Tidewater RR to Drain 3 Construct 5,300 feet of Drain 3N channel
- Drain 3N, Lathrop Road north Construct 2,100 ft of Drain 3N 54-inch pipe
- Drain 3A, Lathrop Road Connect 3A to 3N
- Drain 3, Monterey Place Pipe modifications, sump and pump connection to Drain 3
- Drain 3, Airport Way Construct 72-inch RCP culvert
- Drain 3, road crossing upstream of Airport Way Construct 72-inch RCP culvert

Zone 33 Master Plan Projects along Drain 4

- Hacienda Drive Replace 960 feet of 36-inch pipe with 48-inch

Zone 34 Master Plan Projects along Drain 5

- Airport Way Construct 6-foot by 3-foot box culvert to match existing culvert
- Downstream of Airport Way Convert 1000 ft of two 48-inch pipes to open drainage channel

Zone 35 Master Plan Projects along Drain 7

- Industrial Park Dr. Construct force main, 24-inch, from Spreckels pump to Main Street

Master Plan Projects along Drain 8

- Road crossing, 250 ft north of Hwy 120 Replace existing crossing and culvert with a 4-foot by 8-foot box culvert
- Drain 8, Hwy 120 to FCOC Widen channel along west side

Zone 36 Master Plan Projects along the South Drain

- South Drain West to Airport Way Construct South Drain to Airport Way
- South Drain from Airport Way West and North to Highway 120 66-inch pipe, 5,200 ft
- Pump Station at Hwy 120 to pump into Drain 8
- Airport Way to Drain 10 66-inch pipe, 4,800 feet
- Pump Station at Drain 10
- Drain 10 and 11 Widen channels