

# DRAINAGE DESIGN DOCUMENTATION

PRELIMINARY

STATE PROJECT NO.: FD04 083 10460 006-009

FINAL

FEDERAL PROJECT NO.:

COUNTY: MENIFEE

ITEM NO.: 10-8802.0

EMARS NO.: 8943301D

ROAD NAME: US460

REVIEW STATUS

SUBMITTED BY: CDP ENGRS.

ROUTE NO.: US 460

DESIGNED BY: K. COX

STATION TO STATION: 7+00 - 124+72

CO DRAINAGE: R.THOMAS

BRIDGE

INLET SPACING

DRY BRIDGE

STORM SEWER

BOX CULVERT

CHANNEL CHANGE

ARCH CULVERT

CHANNEL LINING

PIPE CULVERT

OTHER



KENTUCKY TRANSPORTATION CABINET  
DIVISION OF HIGHWAY DESIGN

# DESIGN EXECUTIVE SUMMARY

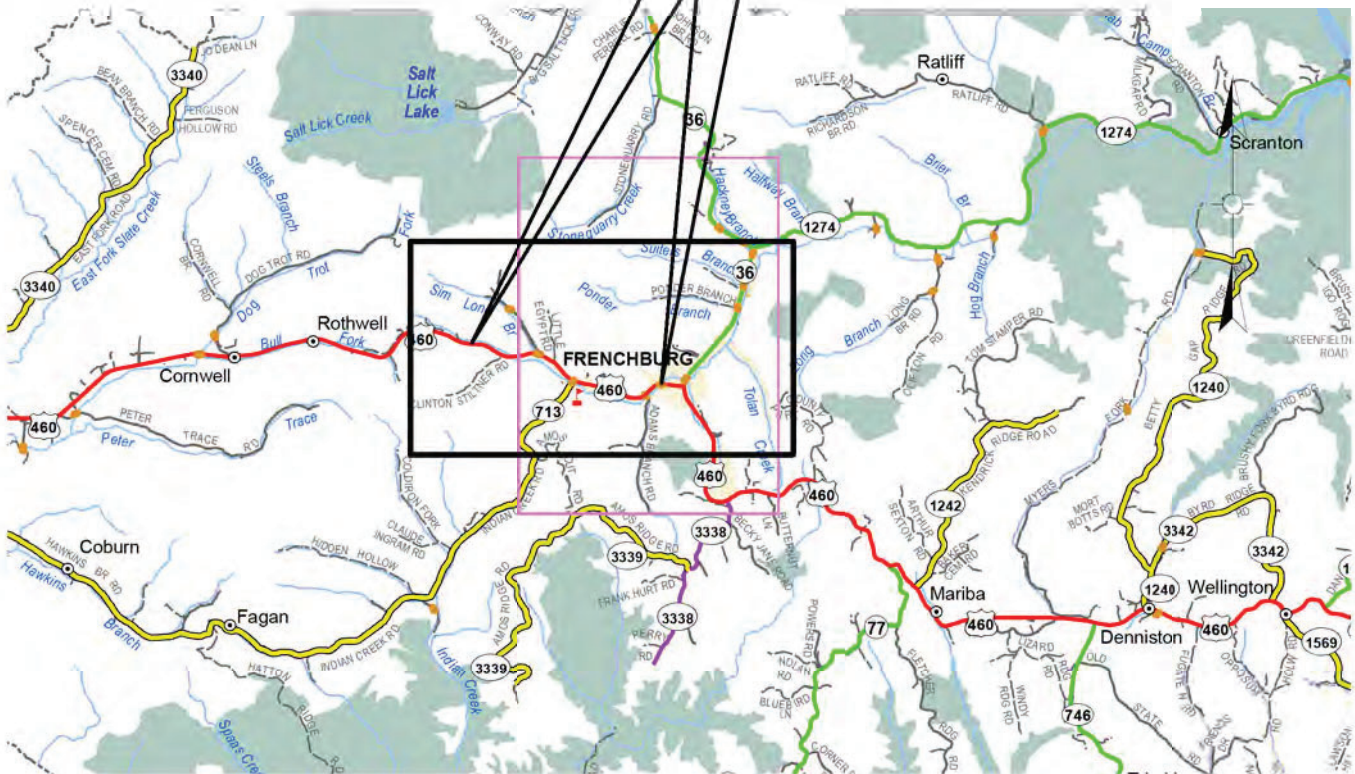
## PROJECT VICINITY MAP

ITEM NO. 10-8802.00

US 460

MENIFEE COUNTY

STA. 7+00 TO STA. 124+72  
MAJOR WIDENING OF US 460



## **SECTION 1 – PROJECT DRAINAGE SUMMARY**

## **Submit the following information**

Summary Sheet of Designed Structures (w/flow changes at outfalls)

Project Drainage Discussion

Site Conditions

Design Assumptions

Analysis Methods

Programs Used

Deviations from Drainage Manual Guidance

Watershed maps: Pipes, Storm Sewers, & Ditches with Longest Flow Path, C Value Calculations and Existing Areas (if different)

Email Correspondence & Drainage Inspection Minutes

Pertinent Hydrology - NOAA Intensities Table





## **SECTION 2 – CULVERTS AND BRIDGES**

## **Submit the following information**

### **Standard Analysis**

Pipe Sheets or Situation Survey Sheets with:

Hydraulic Data Table containing Design & Check Q, HW, Outlet Velocities, Basis for Allowable HW, & Drainage Area

Outfall Channel Geometry

Hydraulic Design Output Report

### **Advanced Analysis**

Structure Plan or Layout Sheet

Hydraulic Design Output

Maps (FIRM, Contour, Aerial, Drainage Area, Land Use, etc. as needed)

Risk Assessment Form (if applicable)

Output Results

Site Specific Hydrologic & Hydraulic Discussion

FEMA Restrictions & Conclusions

Environmental Commitments or Limitations



## **SECTION 3 – STORM SEWER SYSTEMS**

**Submit the following information**

Output of Results

Plot of EGL/HGL Profile (if needed)

## **SECTION 4 – PAVEMENT INLET CALCULATIONS**

**Submit the following information**

Hydraulic Design Output

## **SECTION 5 – ROADSIDE DITCH CALCULATIONS**

**Submit the following information**

Hydraulic Design Output