User: $USER$

FILE: $FILE$

TIME: $TIME$

DATE: $DATE$

PROJECT LOCATION

PROJECT SEGMENT A

PROJECT SEGMENT B

SANTA FE INTERNATIONAL BRIDGE

STANTON ST INTERNATIONAL BRIDGE

MESA ST
RESLER DR
ATCHISON, TOPEKA AND SANTA FE RAILWAY
DONIPHAN DR
SUNLAND PARK DR.
MESA HILLS DR
FESTIVAL DR
FRONTERA RD
SUNLAND PARK CASINO
RACETRACK DR
MOUNTAINS
EXECUTIVE CENTER BLVD
MEXICO
USA
UNIVERSITY OF TEXAS EL PASO
SCHUSTER AVE
SPUR 1966
YANDELL DR
COTTON ST
COLES BLVD
TEXAS AVE
PIEDRAS ST
ALAMEDA AVE
SOUTHERN PACIFIC
CLARK DR
PAISANO DR
FRANKLIN CANAL
Chamizal National Park
CORDOVA PORT OF ENTRY
CIUDAD JUAREZ CHIHUAHUA MEXICO
UNITED STATES
MEXICO
RIO GRANDE
TEXAS
CHIHUAHUA
GLENWOOD ST
Alamo Park
FORT BLISS
MILITARY BOUNDARY

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0 2500 5000 7500

SCALE IN FEET

PRELIMINARY

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MORENO CARDENAS, INC.
LEADERS IN PROJECT DELIVERY AND PERFORMANCE

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NAME	PE#	Date
MARVIN H. GOMEZ	86920	01/29/13

MCI FIRM TEXAS REGISTRATION NUMBER: F-000554

CITY OF EL PASO

UNITED STATES
MEXICO
PROJECT AREA
HORIZON CITY

Texas Department of Transportation

Moreno Cardenas Inc.
consulting engineers
TEXAS REGISTRATION # F-00054

HALFF
TBPE FIRM # F-312

Loop 375 Border Highway West Extension Project

From Racetrack Drive to East of Park Street

DRAINAGE REPORT (SCHEMATIC LAYOUT)

LOCATION MAP

TxDOT El Paso District
CSJ: 2552-04-027

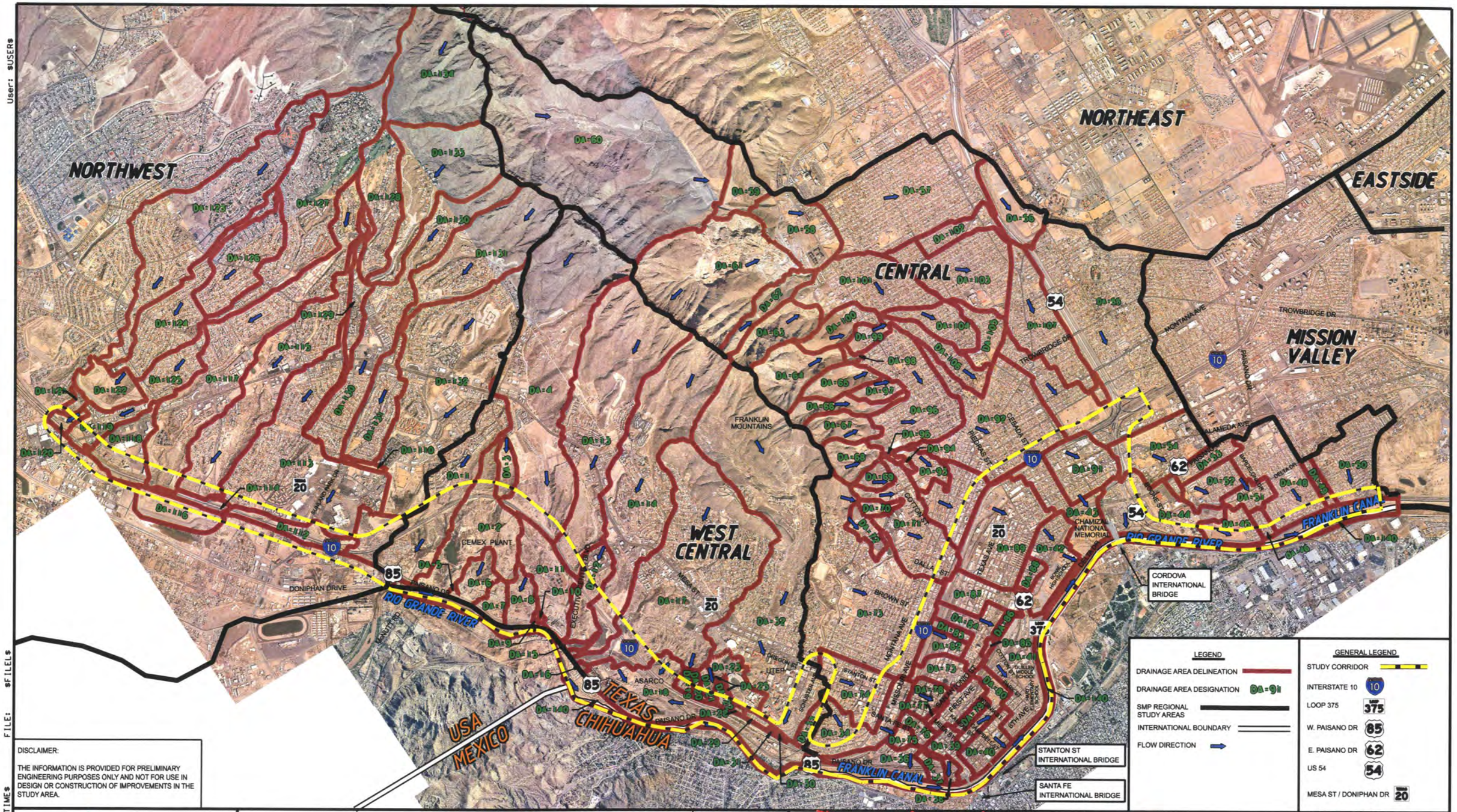
FIGURE 1

User: $USER$

FILE: $FILE1$

TIME: $TIME$

DATE: $DATE$



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LEGEND

- DRAINAGE AREA DELINEATION
- DRAINAGE AREA DESIGNATION DA-91
- SMP REGIONAL STUDY AREAS
- INTERNATIONAL BOUNDARY
- FLOW DIRECTION

GENERAL LEGEND

- STUDY CORRIDOR
- INTERSTATE 10 — 10
- LOOP 375 — 375
- W. PAISANO DR — 85
- E. PAISANO DR — 62
- US 54 — 54
- MESA ST / DONIPHAN DR — 20

0 2000 4000 6000

SCALE IN FEET

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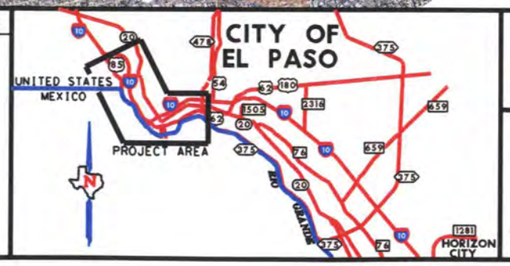

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HALFF — TBPE FIRM #-312

Loop 375 Border Highway West Extension Project

From Racetrack Drive to East of Park Street

DRAINANGE REPORT (SCHEMATIC LAYOUT)

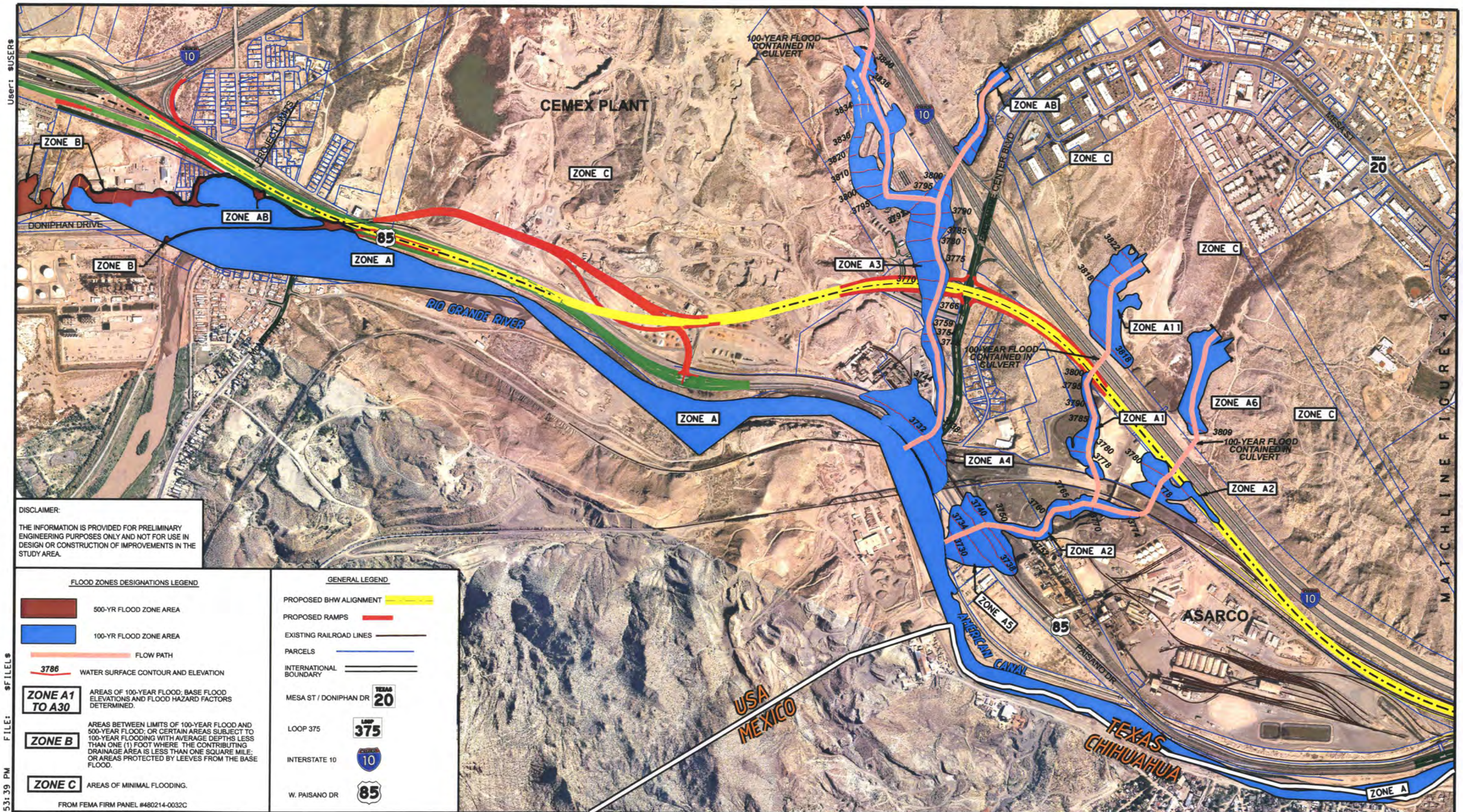
EXISTING DRAINAGE AREA MAP

TxDOT El Paso District
CSJ: 2552-04-027

FIGURE 2

User: $USER$

DATE: 1/29/2013 TIME: 2:53:39 PM FILE: $FILEL$



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FLOOD ZONES DESIGNATIONS LEGEND

- 500-YR FLOOD ZONE AREA
- 100-YR FLOOD ZONE AREA
- FLOW PATH
- 3786 WATER SURFACE CONTOUR AND ELEVATION
- ZONE A1 TO A30 — AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARD FACTORS DETERMINED.
- ZONE B — AREAS BETWEEN LIMITS OF 100-YEAR FLOOD AND 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS PROTECTED BY LEEVES FROM THE BASE FLOOD.
- ZONE C — AREAS OF MINIMAL FLOODING.

FROM FEMA FIRM PANEL #480214-0032C

GENERAL LEGEND

- PROPOSED BHW ALIGNMENT
- PROPOSED RAMPS
- EXISTING RAILROAD LINES
- PARCELS
- INTERNATIONAL BOUNDARY
- MESA ST / DONIPHAN DR — TEXAS 20
- LOOP 375 — LOOP 375
- INTERSTATE 10 — 10
- W. PAISANO DR — 85

0 100 200 300
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Moreno Cardenas Inc. consulting engineers

HALFF TBPE FIRM F-312

Loop 375 Border Highway West Extension Project

From Racetrack Drive to East of Park Street

DRAINAGE REPORT (SCHEMATIC LAYOUT)

EXISTING FLOOD HAZARD AREAS

TxDOT El Paso District
CSJ: 2552-04-027

FIGURE 3
SHEET 1 OF 2

User: $USER$

MATCHLINE FIGURE-3

ZONE A6
ZONE A16
ZONE A15
100-YEAR FLOOD CONTAINED IN CULVERT
ZONE A11
ZONE A6
ZONE B
ZONE B
ZONE A6
RAILYARD B BORDER A
ZONE A
ZONE A
ZONE A
UTEP
RIO GRANDE RIVER
USA
MEXICO
RIO GRANDE RIVER
AMERICAN CANAL
GUILLEN MIDDLE SCHOOL
HART ELEMENTARY SCHOOL
STANTON ST
INTERNATIONAL BRIDGE
SANTA FE
INTERNATIONAL BRIDGE
MESA ST
CAMPBELL ST
KANSAS ST
STANTON ST
OREGON ST
EL PASO ST
YANDELL DR
PROSPECTS
UPSON DR
PORTFIRIO DIAZ ST
SCHUSTER AVE
MONTANA AVE
MISSOURI AVE
FRANKLIN AVE
MAIN
DUPASO ST
SANTA FE ST
PAISANO DR
ANGE ST
ST VRAIN ST
VIRGINIA ST
OCHOA ST
SAN ANTONIO ST
OLIVE AVE
TEXAS AVE
CAMPBELL ST
KANSAS ST
STANTON ST
HIGH ST
OREGON ST
EL PASO ST
SANTA FE ST
PAISANO DR
FLORENCE ST
OCHOA ST
VIRGINIA ST
VRAIN ST
HILL ST
AYES ST
3RD ST
4TH ST
5TH ST
6TH ST
7TH ST
8TH ST
9TH ST
10TH ST
PARKER ST
10
20
85
62
375
LOOP 375

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FLOOD ZONES DESIGNATIONS LEGEND

- 500-YR FLOOD ZONE AREA
- 100-YR FLOOD ZONE AREA
- FLOW PATH
- 3786 WATER SURFACE CONTOUR AND ELEVATION
- ZONE A1 TO A30 — AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARD FACTORS DETERMINED.
- ZONE B — AREAS BETWEEN LIMITS OF 100-YEAR FLOOD AND 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE SQUARE MILE; OR AREAS PROTECTED BY LEEVES FROM THE BASE FLOOD.
- ZONE C — AREAS OF MINIMAL FLOODING.

FROM FEMA FIRM PANEL #480214-0039B

GENERAL LEGEND

- PROPOSED BHW ALIGNMENT
- PROPOSED RAMPS
- EXISTING RAILROAD LINES
- PARCELS
- INTERNATIONAL BOUNDARY
- MESA ST / DONIPHAN DR — TEXAS 20
- LOOP 375 — LOOP 375
- INTERSTATE 10 — 10
- W. PAISANO DR — 85

0 100 200 300
SCALE IN FEET

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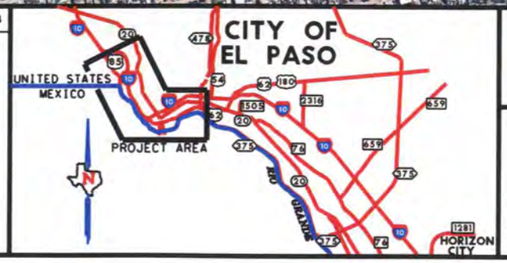

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HALFF TBPE FIRM # F-312

Loop 375 Border Highway West Extension Project

From Racetrack Drive to East of Park Street

DRAINAGE REPORT (SCHEMATIC LAYOUT)

EXISTING FLOOD HAZARD AREAS

TxDOT El Paso District
CSJ: 2552-04-027

FIGURE 4
SHEET 2 OF 2

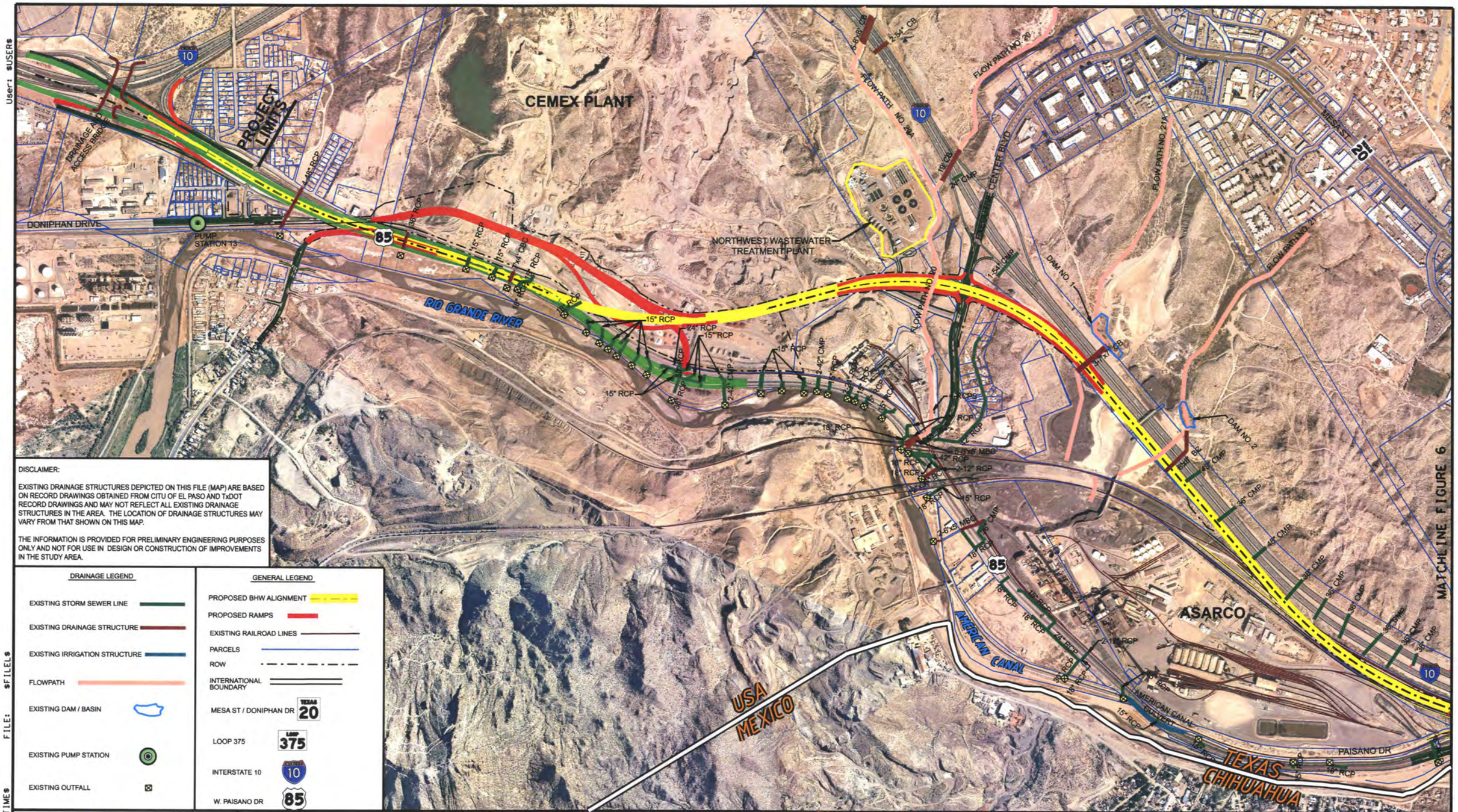
FILE: $FILEL$
TIME: $TIME$
DATE: $DATE$

User: $USER$

FILE: $FILE$

TIME: $TIME$

DATE: $DATE$



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DRAINAGE LEGEND

- EXISTING STORM SEWER LINE
- EXISTING DRAINAGE STRUCTURE
- EXISTING IRRIGATION STRUCTURE
- FLOWPATH
- EXISTING DAM / BASIN
- EXISTING PUMP STATION
- EXISTING OUTFALL

GENERAL LEGEND

- PROPOSED BHW ALIGNMENT
- PROPOSED RAMPS
- EXISTING RAILROAD LINES
- PARCELS
- ROW
- INTERNATIONAL BOUNDARY
- MESA ST / DONIPHAN DR (TEXAS 20)
- LOOP 375 (LOOP 375)
- INTERSTATE 10 (10)
- W. PAISANO DR (85)

0 100 200 300

SCALE IN FEET

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Loop 375 Border Highway West Extension Project

From Racetrack Drive to East of Park Street

DRAINAGE REPORT (SCHEMATIC LAYOUT)

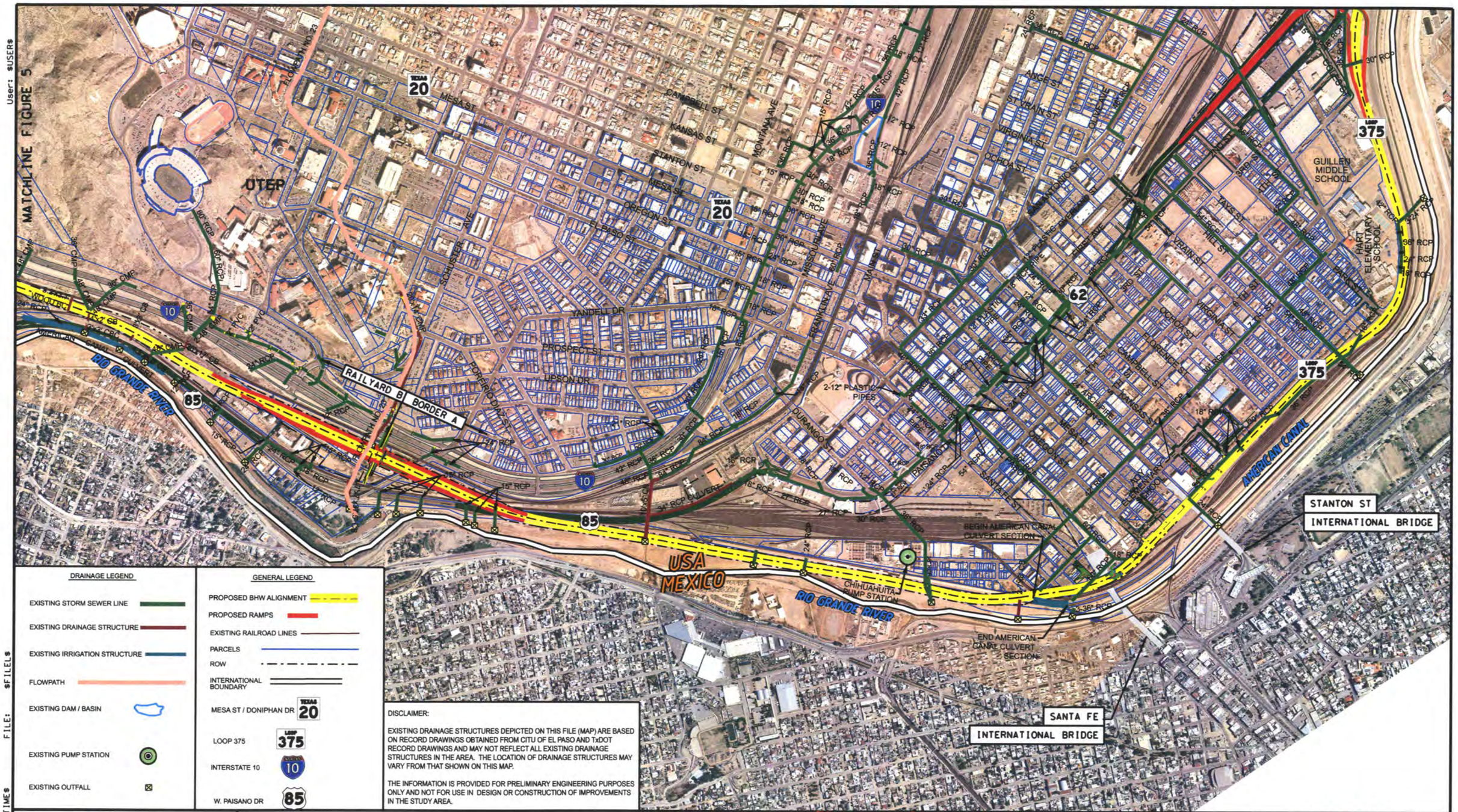
EXISTING MAJOR DRAINAGE INFRASTRUCTURE

TxDOT El Paso District
CSJ: 2552-04-027

FIGURE 5
SHEET 1 OF 2

User: $USER$

MATCHLINE FIGURE 5



DRAINAGE LEGEND

- EXISTING STORM SEWER LINE
- EXISTING DRAINAGE STRUCTURE
- EXISTING IRRIGATION STRUCTURE
- FLOWPATH
- EXISTING DAM / BASIN
- EXISTING PUMP STATION
- EXISTING OUTFALL

GENERAL LEGEND

- PROPOSED BHW ALIGNMENT
- PROPOSED RAMPS
- EXISTING RAILROAD LINES
- PARCELS
- ROW
- INTERNATIONAL BOUNDARY
- MESA ST / DONIPHAN DR (TEXAS 20)
- LOOP 375
- INTERSTATE 10
- W. PAISANO DR (85)

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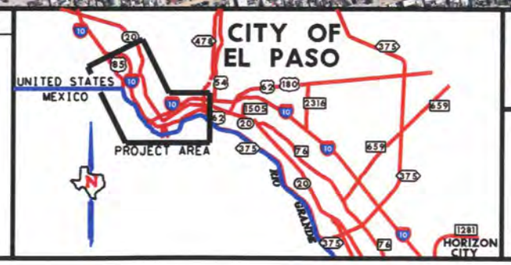

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TEXAS REGISTRATION # F-000554

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TBPE FIRM #F-312

Loop 375 Border Highway West Extension Project

From Racetrack Drive to East of Park Street

DRAINAGE REPORT (SCHEMATIC LAYOUT)

EXISTING MAJOR DRAINAGE INFRASTRUCTURE

TxDOT El Paso District
CSJ: 2552-04-027

FIGURE 6
SHEET 2 OF 2

FILE: $FILE$ TIME: $TIME$ DATE: $DATE$