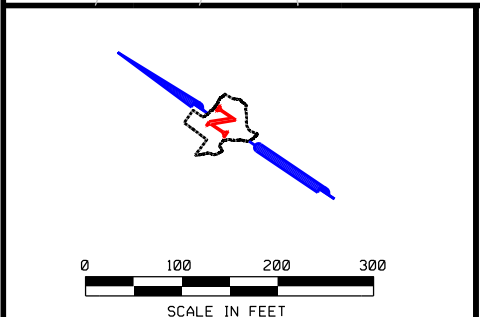


MATCHLINE AT STA 211+00

PROPOSED DRAINAGE IMPROVEMENTS LEGEND			
PROPOSED 12" PVC PIPE		PROPOSED GRATE INLET	
PROPOSED 15" STEEL PIPE		PROPOSED CURB INLET	
PROPOSED 18" STEEL FORCEMAIN PIPE		PROPOSED MANHOLE	
PROPOSED 18" PVC PIPE		PROPOSED STORM SEWER POND OUTFALL	
PROPOSED 18" STEEL PIPE		PROPOSED STORM SEWER OUTFALL	
PROPOSED 24" RCP PIPE		PROPOSED JUNCTION BOX / FITTING	
PROPOSED 36" RCP PIPE		PROPOSED DECK DRAIN	
PROPOSED 42" RCP PIPE		PROPOSED HIGH POINT	
PROPOSED 48" RCP PIPE		PROPOSED LOW POINT	
PROPOSED BHW ALIGNMENT		PROPOSED PONDING AREA ID	
PROPOSED CULVERT		PROPOSED PONDING AREA	

GENERAL LEGEND	
EXISTING OUTFALL	
TxDOT ROW	
EXISTING RAILROAD LINES	
PARCELS	
INTERNATIONAL BOUNDARY	
INTERSTATE 10	
LOOP 375	
W. PAISANO DR	
E. PAISANO DR	
MESA ST / DONIPHAN DR	

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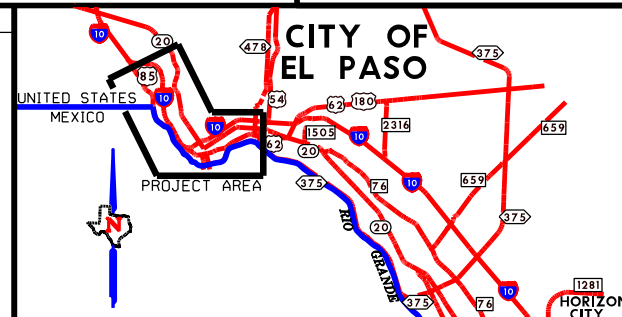
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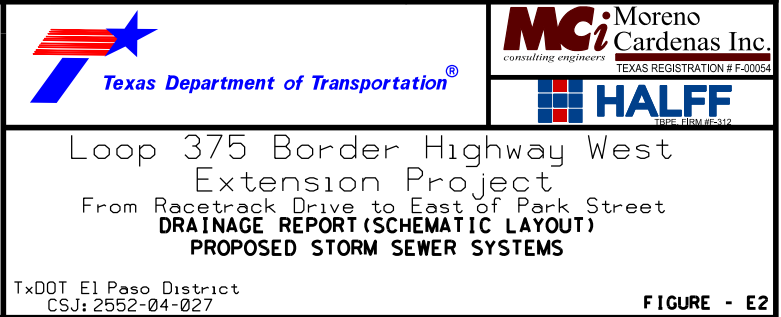
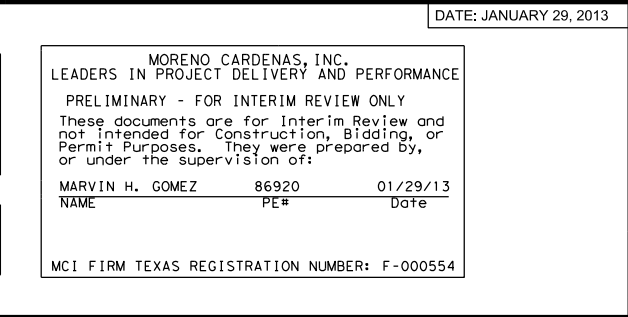
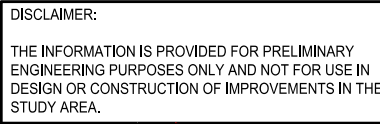
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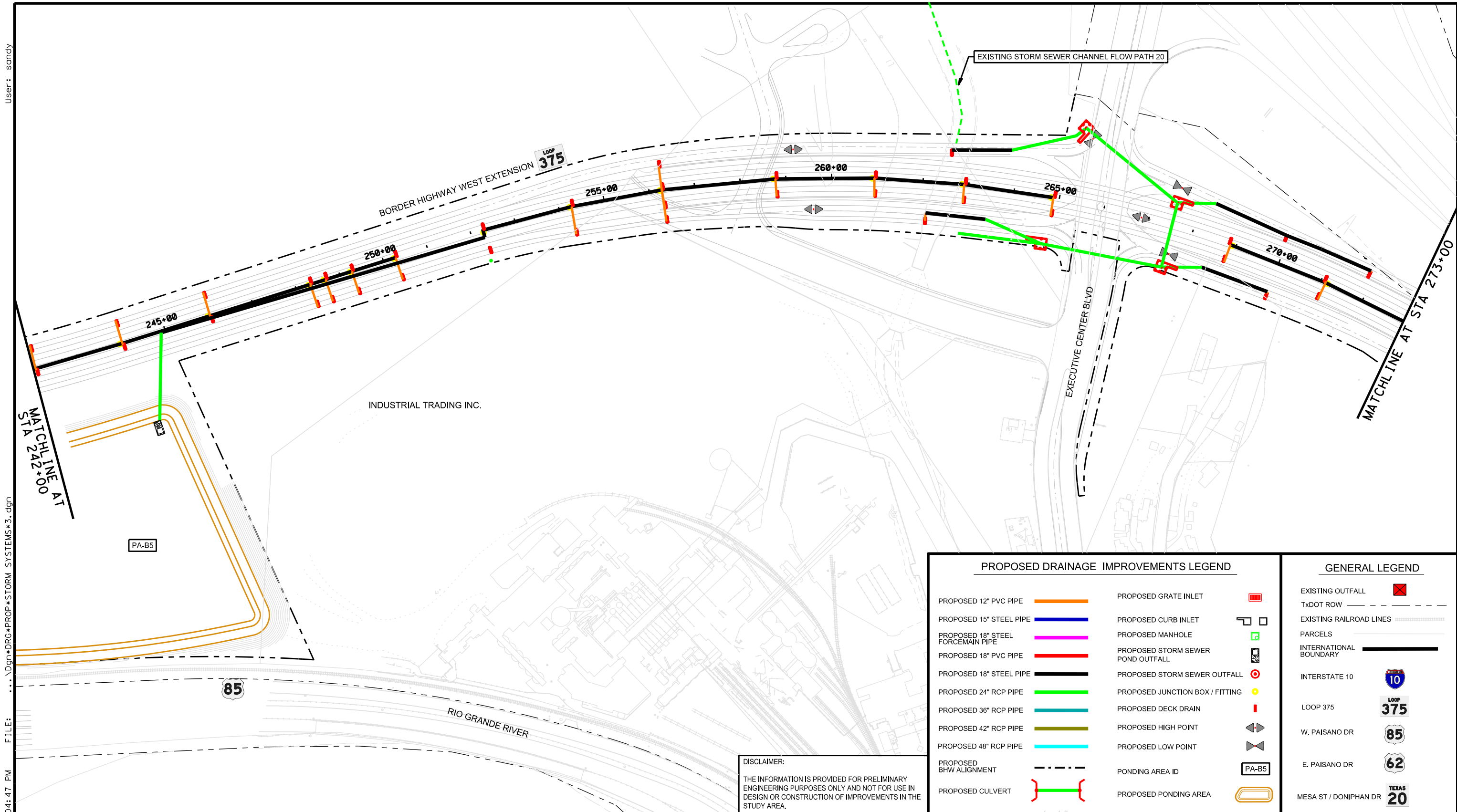
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TRC FIRM # F-512

Loop 375 Border Highway West Extension Project
From Racetrack Drive to East of Park Street
DRAINAGE REPORT (SCHEMATIC LAYOUT)
PROPOSED STORM SEWER SYSTEMS (MAINLANES)

TxDOT El Paso District
CSJ: 2552-04-027

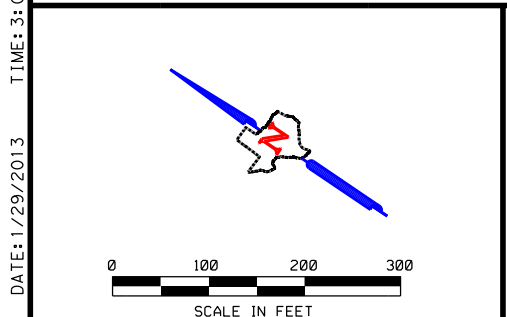
FIGURE - E1





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PROPOSED DRAINAGE IMPROVEMENTS LEGEND		GENERAL LEGEND	
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PROPOSED 15" STEEL PIPE		PROPOSED CURB INLET	
PROPOSED 18" STEEL FORCEMAIN PIPE		PROPOSED MANHOLE	
PROPOSED 18" PVC PIPE		PROPOSED STORM SEWER POND OUTFALL	
PROPOSED 18" STEEL PIPE		PROPOSED STORM SEWER OUTFALL	
PROPOSED 24" RCP PIPE		PROPOSED JUNCTION BOX / FITTING	
PROPOSED 36" RCP PIPE		PROPOSED DECK DRAIN	
PROPOSED 42" RCP PIPE		PROPOSED HIGH POINT	
PROPOSED 48" RCP PIPE		PROPOSED LOW POINT	
PROPOSED BHW ALIGNMENT		PONDING AREA ID	
PROPOSED CULVERT		PROPOSED PONDING AREA	
		EXISTING OUTFALL	
		TxDOT ROW	
		EXISTING RAILROAD LINES	
		PARCELS	
		INTERNATIONAL BOUNDARY	
		INTERSTATE 10	
		LOOP 375	
		W. PAISANO DR	
		E. PAISANO DR	
		MESA ST / DONIPHAN DR	



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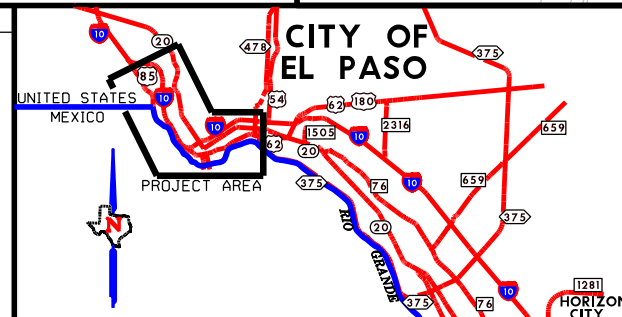
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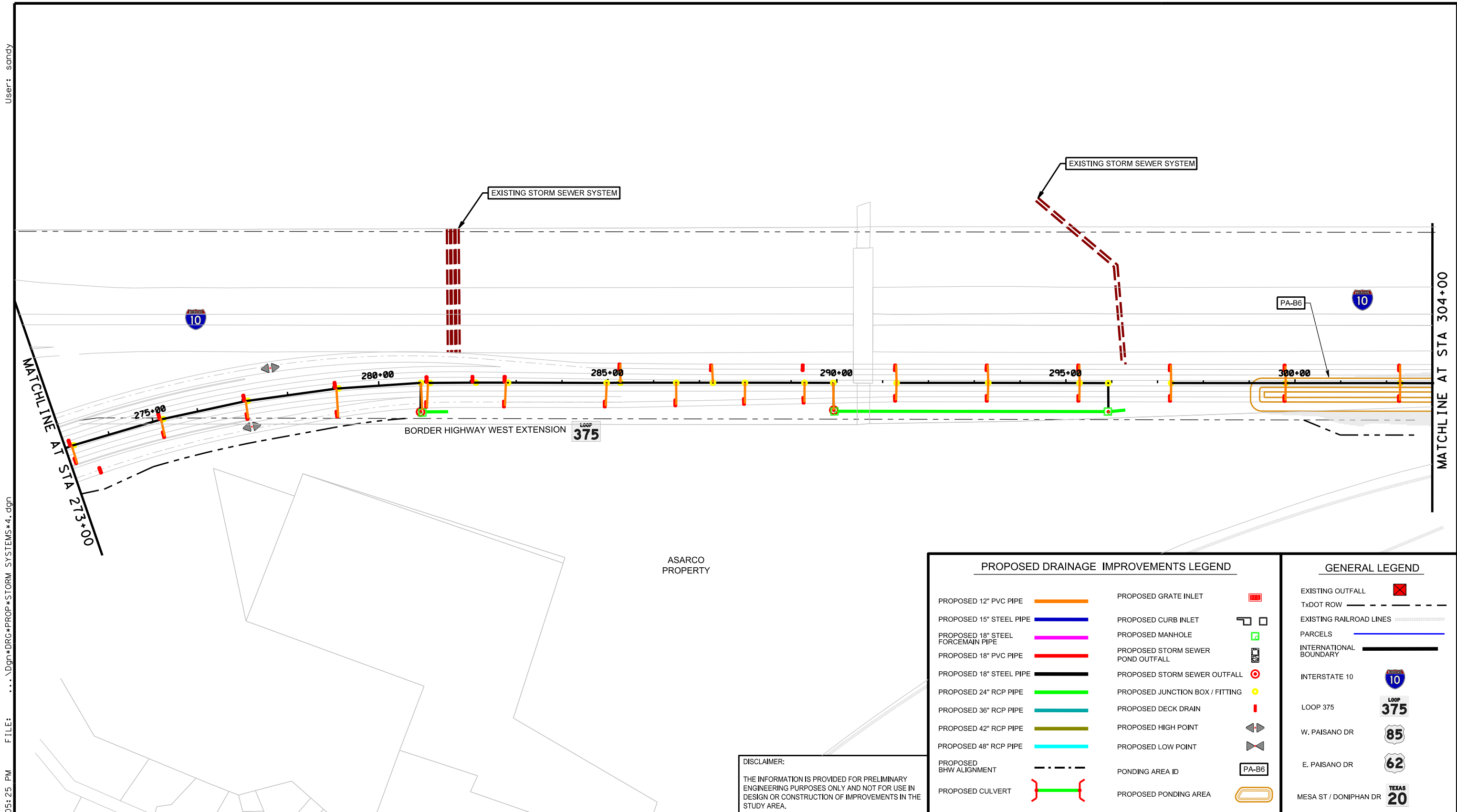
Moreno Cardenas Inc.
consulting engineers

HALFF
TRC FIRM #E-312

Loop 375 Border Highway West Extension Project
From Racetrack Drive to East of Park Street
DRAINAGE REPORT (SCHEMATIC LAYOUT)
PROPOSED STORM SEWER SYSTEMS (MAINLANES)

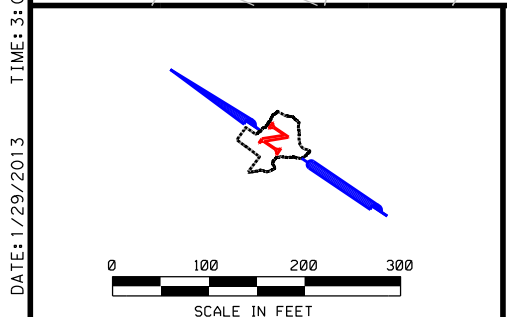
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FIGURE - E3



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PROPOSED DRAINAGE IMPROVEMENTS LEGEND		GENERAL LEGEND	
PROPOSED 12" PVC PIPE		PROPOSED GRATE INLET	
PROPOSED 15" STEEL PIPE		PROPOSED CURB INLET	
PROPOSED 18" STEEL FORCEMAIN PIPE		PROPOSED MANHOLE	
PROPOSED 18" PVC PIPE		PROPOSED STORM SEWER POND OUTFALL	
PROPOSED 18" STEEL PIPE		PROPOSED STORM SEWER OUTFALL	
PROPOSED 24" RCP PIPE		PROPOSED JUNCTION BOX / FITTING	
PROPOSED 36" RCP PIPE		PROPOSED DECK DRAIN	
PROPOSED 42" RCP PIPE		PROPOSED HIGH POINT	
PROPOSED 48" RCP PIPE		PROPOSED LOW POINT	
PROPOSED BHW ALIGNMENT		PROPOSED PONDING AREA ID	
PROPOSED CULVERT		PROPOSED PONDING AREA	
		EXISTING OUTFALL	
		TxDOT ROW	
		EXISTING RAILROAD LINES	
		PARCELS	
		INTERNATIONAL BOUNDARY	
		INTERSTATE 10	
		LOOP 375	
		W. PAISANO DR	
		E. PAISANO DR	
		MESA ST / DONIPHAN DR	



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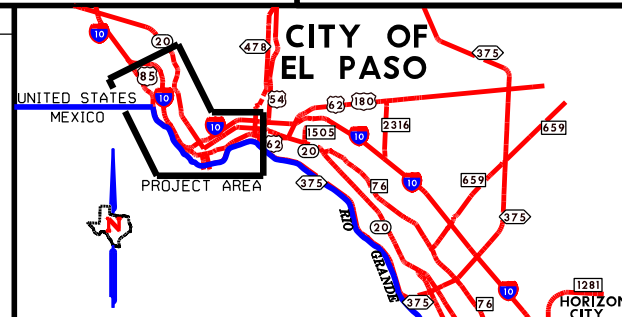
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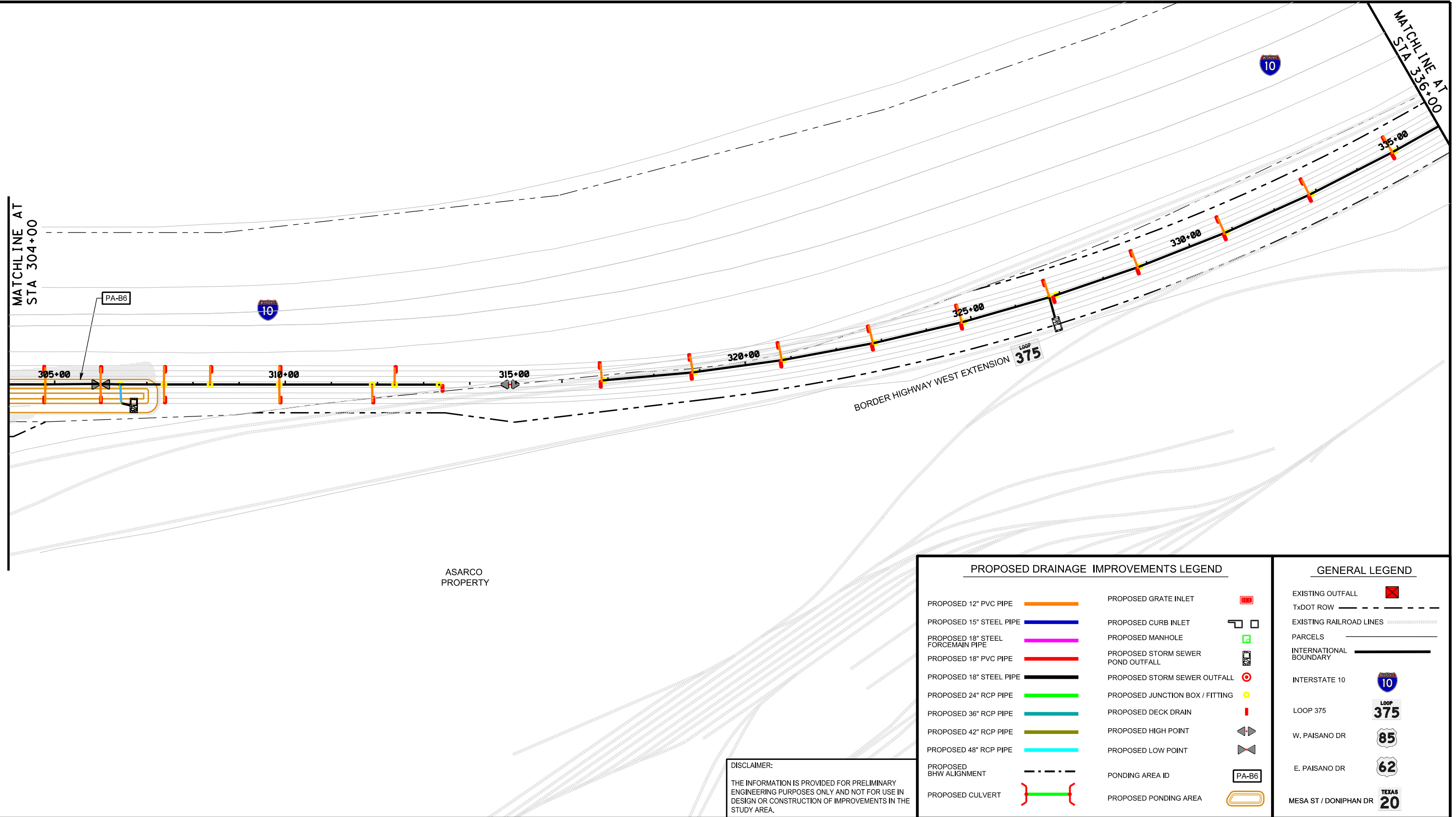
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consulting engineers
TEXAS REGISTRATION # F-000554

TRC FIRM # F-312

Loop 375 Border Highway West
Extension Project
From Racetrack Drive to East of Park Street
DRAINAGE REPORT (SCHEMATIC LAYOUT)
PROPOSED STORM SEWER SYSTEMS (MAINLINES)

TxDOT El Paso District
CSJ: 2552-04-027

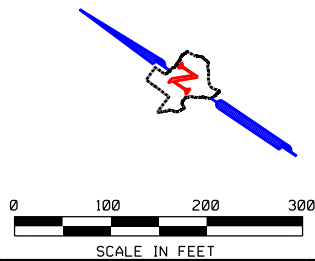
FIGURE - E4



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PROPOSED DRAINAGE IMPROVEMENTS LEGEND			
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PROPOSED 15" STEEL PIPE		PROPOSED CURB INLET	
PROPOSED 18" STEEL FORCEMAIN PIPE		PROPOSED MANHOLE	
PROPOSED 18" PVC PIPE		PROPOSED STORM SEWER POND OUTFALL	
PROPOSED 18" STEEL PIPE		PROPOSED STORM SEWER OUTFALL	
PROPOSED 24" RCP PIPE		PROPOSED JUNCTION BOX / FITTING	
PROPOSED 36" RCP PIPE		PROPOSED DECK DRAIN	
PROPOSED 42" RCP PIPE		PROPOSED HIGH POINT	
PROPOSED 48" RCP PIPE		PROPOSED LOW POINT	
PROPOSED BHW ALIGNMENT		PONDING AREA ID	
PROPOSED CULVERT		PROPOSED PONDING AREA	

GENERAL LEGEND	
EXISTING OUTFALL	
TxDOT ROW	
EXISTING RAILROAD LINES	
PARCELS	
INTERNATIONAL BOUNDARY	
INTERSTATE 10	
LOOP 375	
W. PAISANO DR	
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DATE: JANUARY 29, 2013



Loop 375 Border Highway West
Extension Project
From Racetrack Drive to East of Park Street
DRAINAGE REPORT (SCHEMATIC LAYOUT)
PROPOSED STORM SEWER SYSTEMS (MAINLINES)

TxDOT El Paso District
CSJ: 2552-04-027

User: sandy

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MATCHLINE AT STA 336+00

MATCHLINE AT STA 367+00

UNIVERSITY OF TEXAS
AT EL PASO



LOOP
375

BORDER HIGHWAY WEST EXTENSION

340+00

345+00

350+00

355+00

360+00

365+00



PAISANO DR

RIO GRANDE RIVER
CIUDAD JUAREZ CHIHUAHUA

PA-B7

PROPOSED DRAINAGE IMPROVEMENTS LEGEND

PROPOSED 12" PVC PIPE	PROPOSED 18" STEEL PIPE	PROPOSED 24" RCP PIPE	PROPOSED 36" RCP PIPE	PROPOSED 42" RCP PIPE	PROPOSED 48" RCP PIPE	PROPOSED BHW ALIGNMENT	PROPOSED CULVERT
PROPOSED 18" STEEL FORCEMAIN PIPE	PROPOSED 18" PVC PIPE	PROPOSED 18" STEEL PIPE	PROPOSED 15" STEEL PIPE	PROPOSED 12" PVC PIPE	PROPOSED 18" STEEL FORCEMAIN PIPE	PROPOSED 18" STEEL PIPE	PROPOSED 12" PVC PIPE
PROPOSED GRATE INLET	PROPOSED CURB INLET	PROPOSED MANHOLE	PROPOSED STORM SEWER POND OUTFALL	PROPOSED STORM SEWER OUTFALL	PROPOSED JUNCTION BOX / FITTING	PROPOSED DECK DRAIN	PROPOSED HIGH POINT
PROPOSED LOW POINT	PONDING AREA ID	PROPOSED PONDING AREA	PROPOSED GRADE INLET	PROPOSED CURB INLET	PROPOSED MANHOLE	PROPOSED STORM SEWER POND OUTFALL	PROPOSED STORM SEWER OUTFALL
PROPOSED 18" STEEL PIPE	PROPOSED 24" RCP PIPE	PROPOSED 36" RCP PIPE	PROPOSED 42" RCP PIPE	PROPOSED 48" RCP PIPE	PROPOSED BHW ALIGNMENT	PROPOSED CULVERT	PROPOSED 12" PVC PIPE

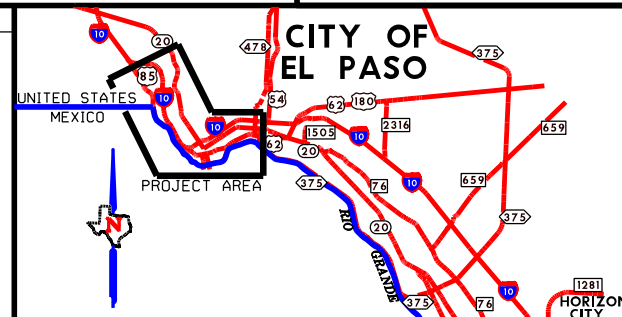
GENERAL LEGEND

EXISTING OUTFALL	TxDOT ROW	EXISTING RAILROAD LINES	PARCELS	INTERNATIONAL BOUNDARY	INTERSTATE 10	LOOP 375	W. PAISANO DR	E. PAISANO DR	MESA ST / DONIPHAN DR
EXISTING OUTFALL	TxDOT ROW	EXISTING RAILROAD LINES	PARCELS	INTERNATIONAL BOUNDARY	INTERSTATE 10	LOOP 375	W. PAISANO DR	E. PAISANO DR	MESA ST / DONIPHAN DR

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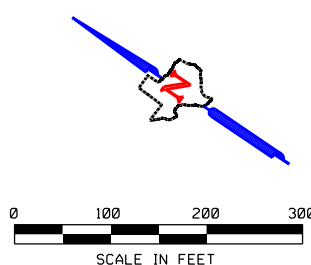
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Loop 375 Border Highway West
Extension Project
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DRAINAGE REPORT (SCHEMATIC LAYOUT)
PROPOSED STORM SEWER SYSTEMS (MAINLINES)

TxDOT El Paso District
CSJ: 2552-04-027

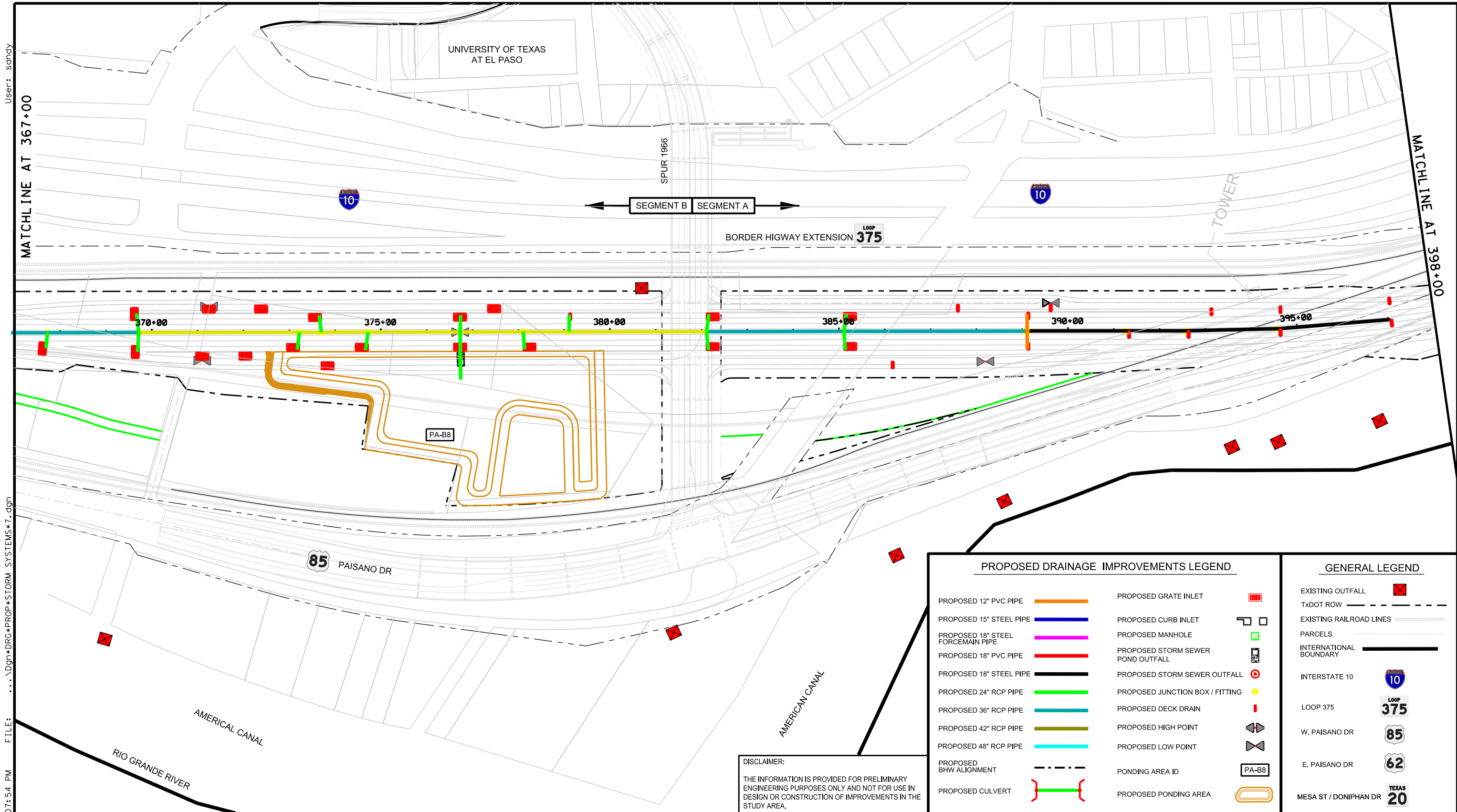
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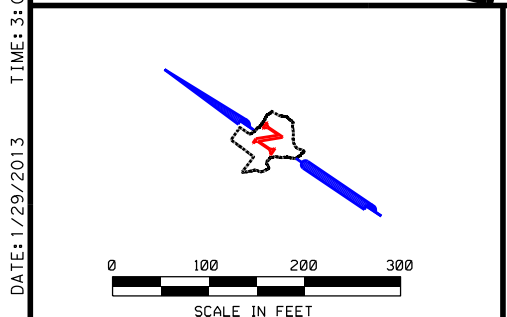
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PROPOSED DRAINAGE IMPROVEMENTS LEGEND			
PROPOSED 12" PVC PIPE		PROPOSED GRATE INLET	
PROPOSED 15" STEEL PIPE		PROPOSED CURB INLET	
PROPOSED 18" STEEL FORCEMAIN PIPE		PROPOSED MANHOLE	
PROPOSED 18" PVC PIPE		PROPOSED STORM SEWER POND OUTFALL	
PROPOSED 18" STEEL PIPE		PROPOSED STORM SEWER OUTFALL	
PROPOSED 24" RCP PIPE		PROPOSED JUNCTION BOX / FITTING	
PROPOSED 36" RCP PIPE		PROPOSED DECK DRAIN	
PROPOSED 42" RCP PIPE		PROPOSED HIGH POINT	
PROPOSED 48" RCP PIPE		PROPOSED LOW POINT	
PROPOSED BHW ALIGNMENT		PONDING AREA ID	
PROPOSED CULVERT		PROPOSED PONDING AREA	

GENERAL LEGEND	
EXISTING OUTFALL	
TxDOT ROW	
EXISTING RAILROAD LINES	
PARCELS	
INTERNATIONAL BOUNDARY	
INTERSTATE 10	
LOOP 375	
W. PAISANO DR	
E. PAISANO DR	
MESA ST / DONIPHAN DR	

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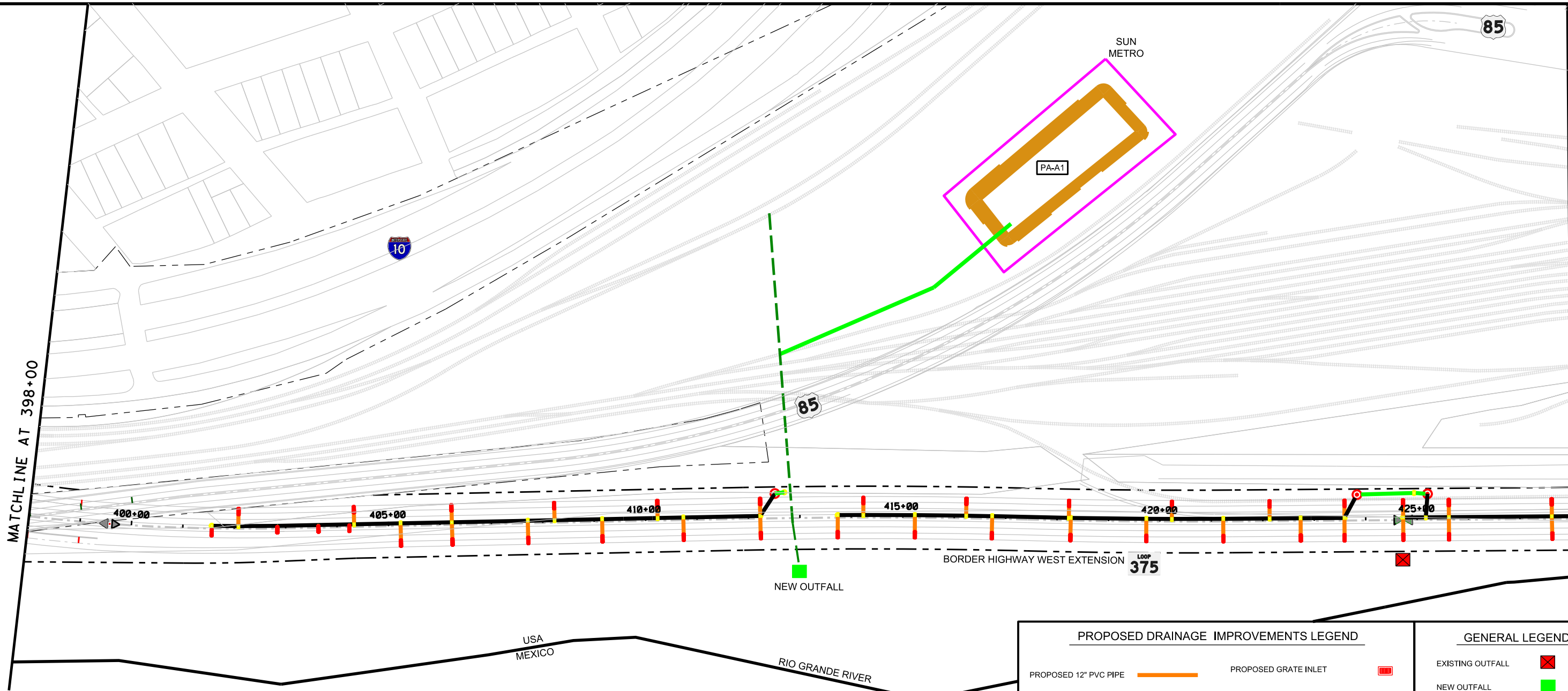
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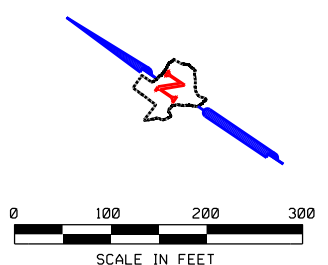
MATCHLINE STA 428+00



PROPOSED DRAINAGE IMPROVEMENTS LEGEND				GENERAL LEGEND	
PROPOSED 12" PVC PIPE		PROPOSED GRATE INLET		EXISTING OUTFALL	
PROPOSED 15" STEEL PIPE		PROPOSED CURB INLET		NEW OUTFALL	
PROPOSED 18" STEEL FORCEMAIN PIPE		PROPOSED MANHOLE		TxDOT ROW	
PROPOSED 18" PVC PIPE		PROPOSED STORM SEWER POND OUTFALL		EXISTING RAILROAD LINES	
PROPOSED 18" STEEL PIPE		PROPOSED STORM SEWER OUTFALL		PARCELS	
PROPOSED 24" RCP PIPE		PROPOSED JUNCTION BOX / FITTING		INTERNATIONAL BOUNDARY	
PROPOSED 36" RCP PIPE		PROPOSED DECK DRAIN		INTERSTATE 10	
PROPOSED 42" RCP PIPE		PROPOSED HIGH POINT		LOOP 375	
PROPOSED 48" RCP PIPE		PROPOSED LOW POINT		W. PAISANO DR	
PROPOSED BHW ALIGNMENT		PONDING AREA ID		E. PAISANO DR	
PROPOSED CULVERT		PROPOSED PONDING AREA		MESA ST / DONIPHAN DR	

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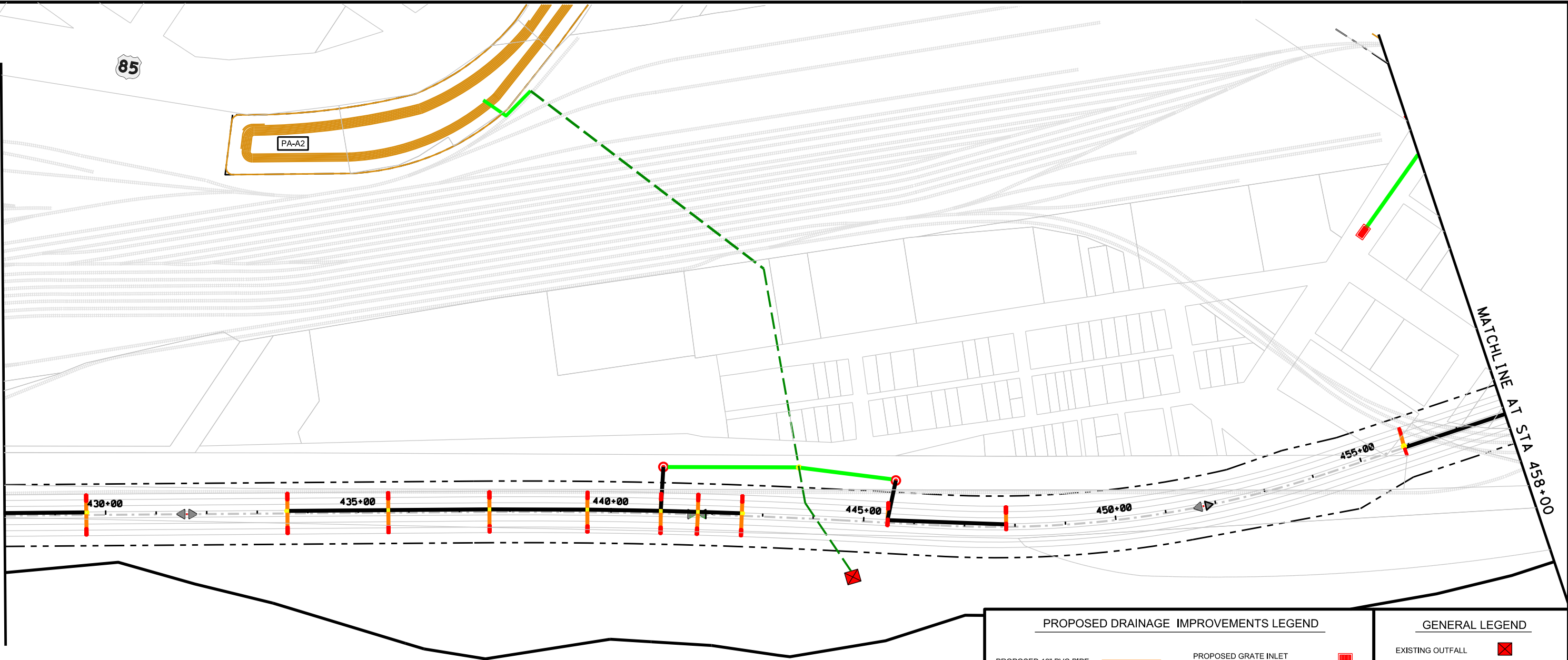
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From Racetrack Drive to East of Park Street
DRAINAGE REPORT (SCHEMATIC LAYOUT)
PROPOSED STORM SEWER SYSTEMS (MAINLINES)

TxDOT El Paso District
CSJ: 2552-04-027

FIGURE - E8

MATCHLINE AT STA 428+00

MATCHLINE AT STA 458+00



PROPOSED DRAINAGE IMPROVEMENTS LEGEND

PROPOSED 12" PVC PIPE	PROPOSED 15" STEEL PIPE	PROPOSED 18" STEEL FORCEMAIN PIPE	PROPOSED 18" PVC PIPE	PROPOSED 18" STEEL PIPE	PROPOSED 24" RCP PIPE	PROPOSED 36" RCP PIPE	PROPOSED 42" RCP PIPE	PROPOSED 48" RCP PIPE	PROPOSED BHW ALIGNMENT	PROPOSED CULVERT
PROPOSED GRATE INLET	PROPOSED CURB INLET	PROPOSED MANHOLE	PROPOSED STORM SEWER POND OUTFALL	PROPOSED STORM SEWER OUTFALL	PROPOSED JUNCTION BOX / FITTING	PROPOSED DECK DRAIN	PROPOSED HIGH POINT	PROPOSED LOW POINT	PONDING AREA ID	PROPOSED PONDING AREA

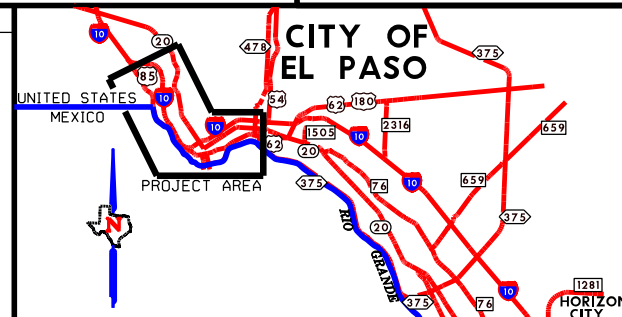
GENERAL LEGEND

EXISTING OUTFALL	TxDOT ROW	EXISTING RAILROAD LINES	PARCELS	INTERNATIONAL BOUNDARY	INTERSTATE 10	LOOP 375	W. PAISANO DR	E. PAISANO DR	MESA ST / DONIPHAN DR
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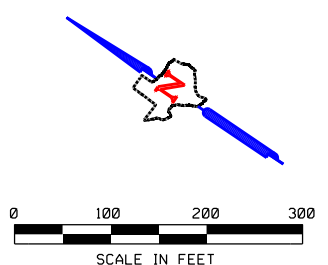
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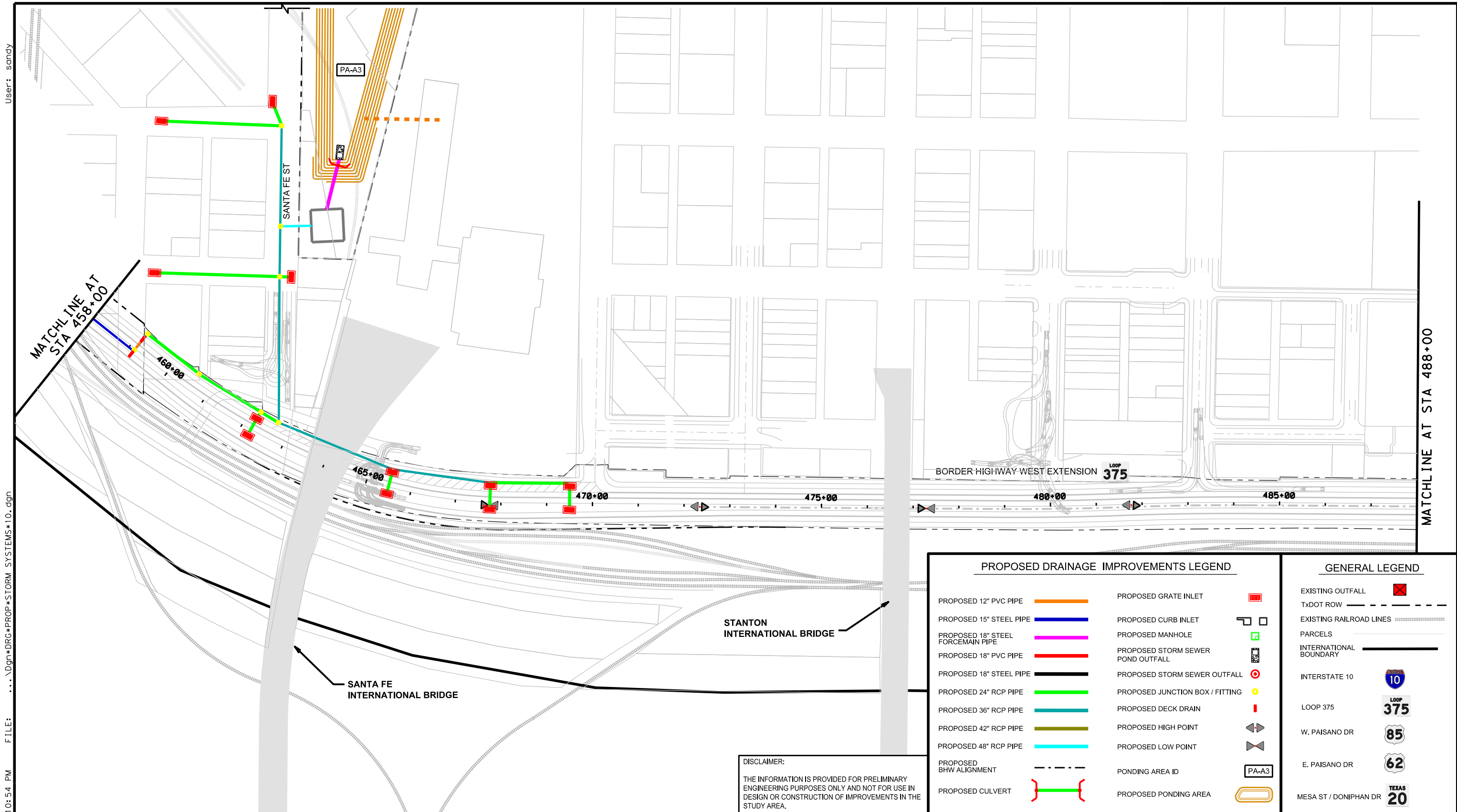
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From Racetrack Drive to East of Park Street
DRAINAGE REPORT (SCHEMATIC LAYOUT)
PROPOSED STORM SEWER SYSTEMS (MAINLANES)
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FIGURE - E9

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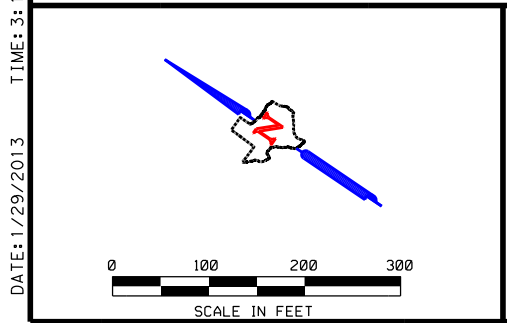




PROPOSED DRAINAGE IMPROVEMENTS LEGEND			
PROPOSED 12" PVC PIPE		PROPOSED GRATE INLET	
PROPOSED 15" STEEL PIPE		PROPOSED CURB INLET	
PROPOSED 18" STEEL FORCEMAIN PIPE		PROPOSED MANHOLE	
PROPOSED 18" PVC PIPE		PROPOSED STORM SEWER POND OUTFALL	
PROPOSED 18" STEEL PIPE		PROPOSED STORM SEWER OUTFALL	
PROPOSED 24" RCP PIPE		PROPOSED JUNCTION BOX / FITTING	
PROPOSED 36" RCP PIPE		PROPOSED DECK DRAIN	
PROPOSED 42" RCP PIPE		PROPOSED HIGH POINT	
PROPOSED 48" RCP PIPE		PROPOSED LOW POINT	
PROPOSED BHW ALIGNMENT		PONDING AREA ID	
PROPOSED CULVERT		PROPOSED PONDING AREA	

GENERAL LEGEND	
EXISTING OUTFALL	
TxDOT ROW	
EXISTING RAILROAD LINES	
PARCELS	
INTERNATIONAL BOUNDARY	
INTERSTATE 10	
LOOP 375	
W. PAISANO DR	
E. PAISANO DR	
MESA ST / DONIPHAN DR	

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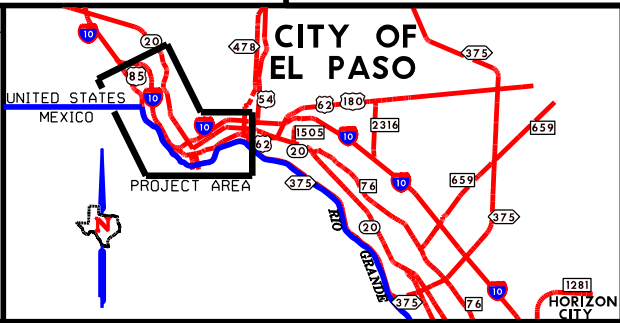
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MARVIN H. GOMEZ	86920	01/29/13
NAME	PE#	Date

MCI FIRM TEXAS REGISTRATION NUMBER: F-000554



Texas Department of Transportation

Moreno Cardenas Inc.
consulting engineers
TEXAS REGISTRATION # F-000554

HALFF
FIRM # E-312

Loop 375 Border Highway West Extension Project
From Racetrack Drive to East of Park Street
DRAINAGE REPORT (SCHEMATIC LAYOUT)
PROPOSED STORM SEWER SYSTEMS (MAINLANES)

TxDOT El Paso District
CSJ: 2552-04-027

FIGURE - E10

MATCHLINE AT STA 488+00

MATCHLINE AT STA 518+00

OCHOA ST

VIRGINIA ST

ST VRAIN ST

HILL ST

TAYS ST

PARK ST

9TH AVE

BORDER HIGHWAY WEST EXTENSION

LOOP 375

490+00

495+00

500+00

505+00

510+00

515+00

AMERICAN CANAL

RIO GRANDE RIVER

USA
MEXICO

PROPOSED DRAINAGE IMPROVEMENTS LEGEND

PROPOSED 12" PVC PIPE	PROPOSED 18" STEEL PIPE	PROPOSED 18" STEEL FORCEMAIN PIPE	PROPOSED 18" PVC PIPE	PROPOSED 18" STEEL PIPE	PROPOSED 24" RCP PIPE	PROPOSED 36" RCP PIPE	PROPOSED 42" RCP PIPE	PROPOSED 48" RCP PIPE	PROPOSED BHW ALIGNMENT	PROPOSED CULVERT
PROPOSED 15" STEEL PIPE	PROPOSED 18" STEEL FORCEMAIN PIPE	PROPOSED 18" PVC PIPE	PROPOSED 18" STEEL PIPE	PROPOSED 24" RCP PIPE	PROPOSED 36" RCP PIPE	PROPOSED 42" RCP PIPE	PROPOSED 48" RCP PIPE	PROPOSED BHW ALIGNMENT	PROPOSED CULVERT	
PROPOSED GRATE INLET	PROPOSED CURB INLET	PROPOSED MANHOLE	PROPOSED STORM SEWER POND OUTFALL	PROPOSED STORM SEWER OUTFALL	PROPOSED JUNCTION BOX / FITTING	PROPOSED DECK DRAIN	PROPOSED HIGH POINT	PROPOSED LOW POINT	PONDING AREA ID	PROPOSED PONDING AREA
PROPOSED GRATE INLET	PROPOSED CURB INLET	PROPOSED MANHOLE	PROPOSED STORM SEWER POND OUTFALL	PROPOSED STORM SEWER OUTFALL	PROPOSED JUNCTION BOX / FITTING	PROPOSED DECK DRAIN	PROPOSED HIGH POINT	PROPOSED LOW POINT	PONDING AREA ID	PROPOSED PONDING AREA

GENERAL LEGEND

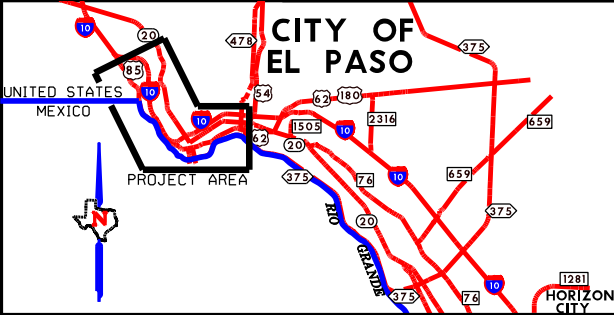
EXISTING OUTFALL	TxDOT ROW	EXISTING RAILROAD LINES	PARCELS	INTERNATIONAL BOUNDARY	INTERSTATE 10	LOOP 375	W. PAISANO DR	E. PAISANO DR	MESA ST / DONIPHAN DR
EXISTING OUTFALL	TxDOT ROW	EXISTING RAILROAD LINES	PARCELS	INTERNATIONAL BOUNDARY	INTERSTATE 10	LOOP 375	W. PAISANO DR	E. PAISANO DR	MESA ST / DONIPHAN DR

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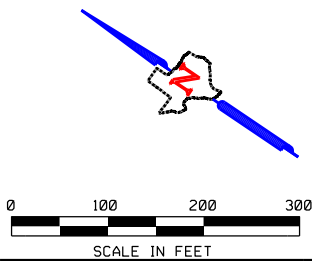
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Texas Department of Transportation
Loop 375 Border Highway West Extension Project
From Racetrack Drive to East of Park Street
DRAINAGE REPORT (SCHEMATIC LAYOUT)
PROPOSED STORM SEWER SYSTEMS (MAINLINES)
TxDOT El Paso District
CSJ: 2552-04-027
MCI Moreno Cardenas Inc.
HALFF
FIGURE - E11

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MATCHLINE 518+00

520+00

525+00

530+00

535+00

MATCHLINE 537+00

BORDER HIGHWAY WEST EXTENSION

LOOP 375

AMERICAN CANAL

EXISTING STORM SEWER SYSTEM

COLES ST

COTTON ST

3RD AVE

4TH AVE

DELTA DR

USA
MEXICO

PROPOSED DRAINAGE IMPROVEMENTS LEGEND

PROPOSED 12" PVC PIPE	PROPOSED 15" STEEL PIPE	PROPOSED 18" STEEL FORCEMAIN PIPE	PROPOSED 18" PVC PIPE	PROPOSED 18" STEEL PIPE	PROPOSED 24" RCP PIPE	PROPOSED 36" RCP PIPE	PROPOSED 42" RCP PIPE	PROPOSED 48" RCP PIPE	PROPOSED BHW ALIGNMENT	PROPOSED CULVERT
PROPOSED GRATE INLET	PROPOSED CURB INLET	PROPOSED MANHOLE	PROPOSED STORM SEWER POND OUTFALL	PROPOSED STORM SEWER OUTFALL	PROPOSED JUNCTION BOX / FITTING	PROPOSED DECK DRAIN	PROPOSED HIGH POINT	PROPOSED LOW POINT	PONDING AREA ID	PROPOSED PONDING AREA
									PA-B2	

GENERAL LEGEND

EXISTING OUTFALL	TxDOT ROW	EXISTING RAILROAD LINES	PARCELS	INTERNATIONAL BOUNDARY	INTERSTATE 10	LOOP 375	W. PAISANO DR	E. PAISANO DR	MESA ST / DONIPHAN DR

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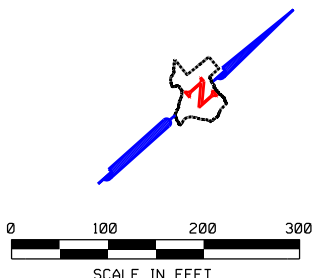
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Loop 375 Border Highway West Extension Project
From Racetrack Drive to East of Park Street
DRAINAGE REPORT (SCHEMATIC LAYOUT)
PROPOSED STORM SEWER SYSTEMS (MAINLINES)

TxDOT El Paso District
CSJ: 2552-04-027

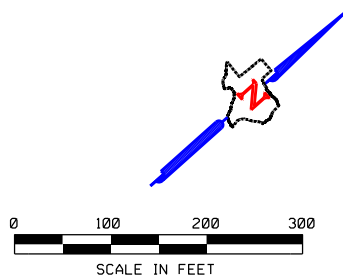
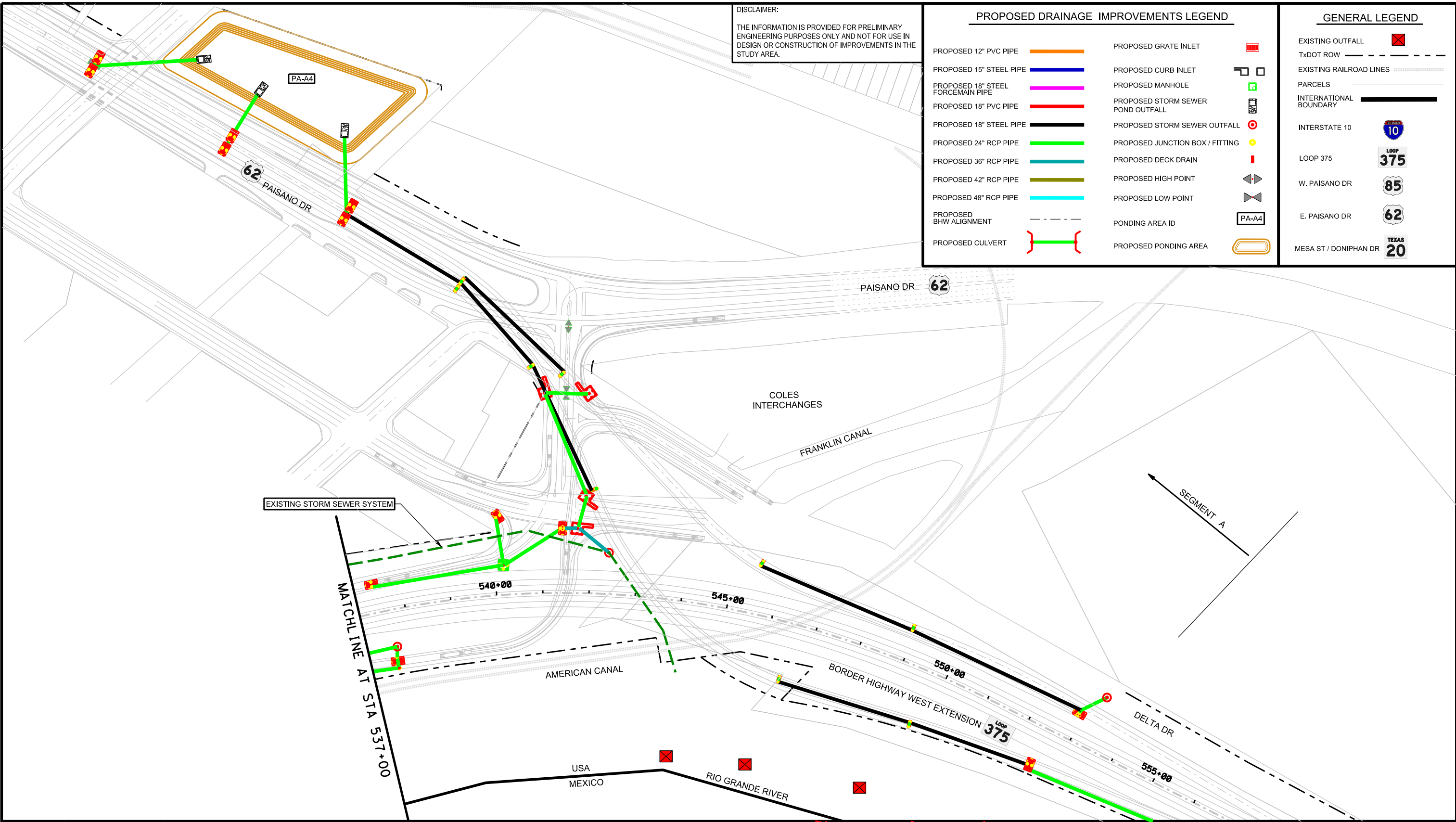


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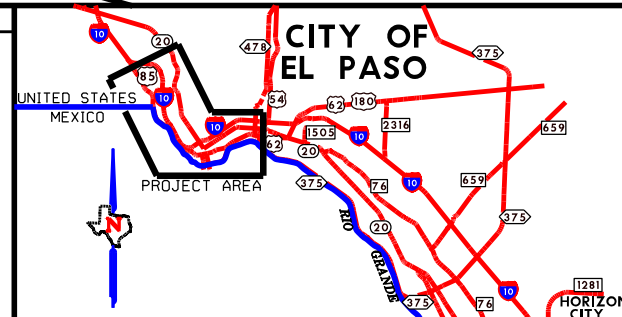
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TEXAS REGISTRATION # F-00054

HALFF
TRC FIRM #E-312

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TxDOT El Paso District
CSJ: 2552-04-027

FIGURE - E13