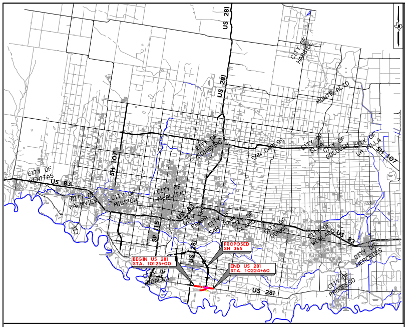

US 281
US 281
CITY OF HARGILL
MONTE ALTO
CITY OF EDINBURG
SAN CARLOS
CITY OF ELSA
CITY OF EDCOUCH
CITY OF LA VILLA
SH 107
SH 107
CITY OF PENITAS
US 83
CITY OF PALMVIEW
CITY OF MISSION
CITY OF McALLEN
US 83
CITY OF PHARR
CITY OF SAN JUAN
CITY OF ALAMO
CITY OF DONNA
CITY OF WESLACO
US 83
CITY OF MERCEDES
SP 115
US 281
PROPOSED SH 365
BEGIN US 281 STA. 10125+00
END US 281 STA. 10224+60
CITY OF HIDALGO
US 281
CITY OF PROGRESO

VICINITY MAP N.T.S.

DESIGN DATA

US 281 (MILITARY ROAD)

CSJ : 0220-01-023

NET LENGTH : 1.88 MILES

LIMITS : FROM 0.47 MILES EAST OF US 281 (SOUTH CAGE BLVD)
: TO FM 2557 (SOUTH STEWART ROAD)

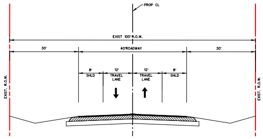
FUNCTIONAL CLASSIFICATION : ARTERIAL

DESIGN SPEED : 60 MPH

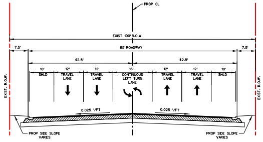
ADT (2015) : 28,600
(2035) : 39,600

e MAX : 6%

DESIGN CRITERIA : TxDOT ROADWAY DESIGN MANUAL CHAPTER 3, SECTION 2 - (URBAN STREET)


PROP CL
EXIST 100' R.O.W.
30'
40'ROADWAY
30'
8'
SHLD
12'
TRAVEL LANE
12'
TRAVEL LANE
8'
SHLD
EXIST. R.O.W.
EXIST. R.O.W.

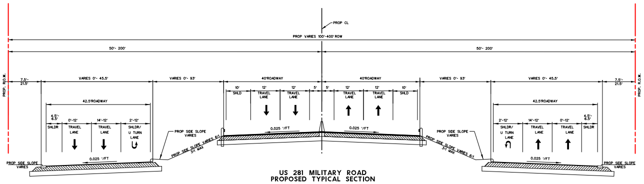
US 281 MILITARY ROAD
EXISTING TYPICAL SECTION


PROP CL
EXIST 100' R.O.W.
7.5'
85' ROADWAY
7.5'
42.5'
42.5'
10'
SHLD
12'
TRAVEL LANE
12'
TRAVEL LANE
16'
CONTINUOUS LEFT TURN LANE
12'
TRAVEL LANE
12'
TRAVEL LANE
10'
SHLD
0.025 '/FT
0.025 '/FT
PROP SIDE SLOPE VARIES
PROP SIDE SLOPE VARIES
EXIST. R.O.W.
EXIST. R.O.W.

US 281 MILITARY ROAD
PROPOSED TYPICAL SECTION

STATION 10125+20 TO STATION 10157+00

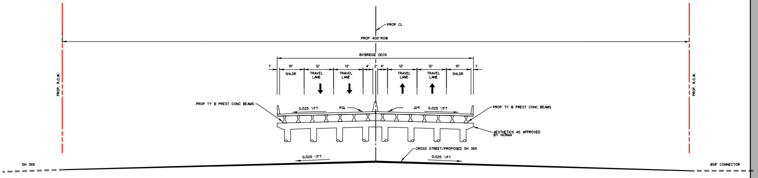
STATION 10207+00 TO STATION 10224+60


PROP CL
PROP VARIES 100'-400' ROW
50'- 200'
50'- 200'
PROP. R.O.W.
7.5'- 21.5'
VARIES 0'- 45.5'
VARIES 0'- 93'
40'ROADWAY
40'ROADWAY
VARIES 0'- 93'
VARIES 0'- 45.5'
7.5'- 21.5'
PROP. R.O.W.
42.5'ROADWAY
4.5'- 6.5'
SHLDR
0'-12'
TRAVEL LANE
14'-12'
TRAVEL LANE
2'-12'
SHLDR/ U TURN LANE
10'
SHLD
12'
TRAVEL LANE
12'
TRAVEL LANE
5'
5'
12'
TRAVEL LANE
12'
TRAVEL LANE
10'
SHLD
42.5'ROADWAY
2'-12'
SHLDR/ U TURN LANE
14'-12'
TRAVEL LANE
0'-12'
TRAVEL LANE
4.5'- 6.5'
SHLDR
0.025 '/FT
0.025 '/FT
0.025 '/FT
0.025 '/FT
PROP SIDE SLOPE VARIES
PROP SIDE SLOPE VARIES
PROP SIDE SLOPE VARIES 6:1 3:1 MAX
PROP SIDE SLOPE VARIES
PROP SIDE SLOPE VARIES 6:1 3:1 MAX
PROP SIDE SLOPE VARIES

US 281 MILITARY ROAD
PROPOSED TYPICAL SECTION

STATION 10157+00 TO STATION 10180+94

STATION 10183+86 TO STATION 10207+00


PROP CL
PROP 400' ROW
80'BRIDGE DECK
1'
10'
SHLDR
12'
TRAVEL LANE
12'
TRAVEL LANE
4'
2'
4'
12'
TRAVEL LANE
12'
TRAVEL LANE
10'
SHLDR
1'
PROP. R.O.W.
PROP. R.O.W.
PROP TY B PREST CONC BEAMS
PROP TY B PREST CONC BEAMS
0.025 '/FT
PGL
PGL
0.025 '/FT
AESTHETICS AS APPROVED BY HCRMA
CROSS STREET/PROPOSED SH 365
0.025 '/FT
0.025 '/FT
SH 365
BSIF CONNECTOR

US 281 MILITARY ROAD
PROPOSED TYPICAL SECTION

STATION 10180+94 TO STATION 10183+86

PLAN LEGEND

— —	CITY LIMITS
— —	PROPOSED RIGHT OF WAY
— —	EXISTING RIGHT OF WAY
— —	EXISTING INTERNATIONAL LEVEE R.O.W.
—‖—	CONTROL OF ACCESS
—●—	BEGIN/END R.O.W. TRANSITION
—	PROPOSED RETAINING WALL
—	PROPOSED TOE OF SLOPE
▨	PROPOSED GAS EASEMENT
🟧	PROPOSED BRIDGE MAINLANES
☐	EXISTING BRIDGE
▨	EXISTING DRAINAGE CHANNEL
▨	PROPOSED DRAINAGE CHANNEL
🟩	EXISTING USFWS CORRIDOR/TRACT
🟦	EXISTING FLOODWAY
▨	EXISTING CONSTRAINTS
▨	FUTURE PAVEMENT / ULTIMATE SECTION
▩	EXISTING ROAD TO BE OBLITERATED
🟨	AREAS OF IMPACT
▨	PROPOSED R.O.W.
🟥	PROPOSED RAMPS GANTRY
- - - -	EXISTING IRRIGATION STRUCTURE
- - - -	EXISTING DRAINAGE STRUCTURE
—	PROPOSED IRRIGATION STRUCTURE
—	PROPOSED DRAINAGE STRUCTURE
➡	PROPOSED TRAFFIC
⇨	EXISTING TRAFFIC
➤	PROPOSED DRAINAGE FLOW
➤	EXISTING DRAINAGE FLOW

UTILITIES LEGEND

OHEC	EXIST. OVERHEAD POWER LINE WITH CABLE ATTACHED
OHET	EXIST. OVERHEAD POWER LINE WITH TELEPHONE LINE ATTACHED
OHE	EXIST. OVERHEAD POWER LINE
UE	EXIST. UNDERGROUND POWER LINE
—◉—	EXISTING HIGH TENSION POWER LINES
G	EXIST. GAS LINE
W	EXIST. WATER LINE
SS	EXIST. SANITARY SEWER LINE
FM	EXIST. SANITARY SEWER FORCEMAIN
UFO	EXIST. UNDERGROUND FIBER OPTIC
AFO	EXIST. AERIAL FIBER OPTIC
- - -	EXIST. IRRIGATION LINES
☼	DRY HOLE
☼	GAS WELL
●	HORIZONTAL DRAIN HOLE
☀	OIL/GAS WELL
●	PERMITTED LOCATION
☼	PLUGGED GAS WELL
●	PLUGGED OIL WELL
☀	PLUGGED OIL/GAS WELL
☼	SHUT-IN WELL (GAS)
●	SIDETRACK WELL SURFACE LOCATION

NOTE:
ALL UTILITY AND DRAINAGE FEATURES AND FRONTAGE ROAD LOCATIONS WERE PROVIDED BY HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY.

DESIGN SPEED TABLE	
MAINLANES	60 MPH
RAMP	50 MPH
FRONTAGE	50 MPH
BSIF CONNECTOR	45 MPH
I ROAD	30 MPH
FM 2557	55 MPH

HCRMA
HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

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TEDSI INFRASTRUCTURE GROUP
Consulting Engineers
TEDSI
TBPE F-1640
1201 E. Expressway 83
Mission, Texas 78572
(956) 424-7898

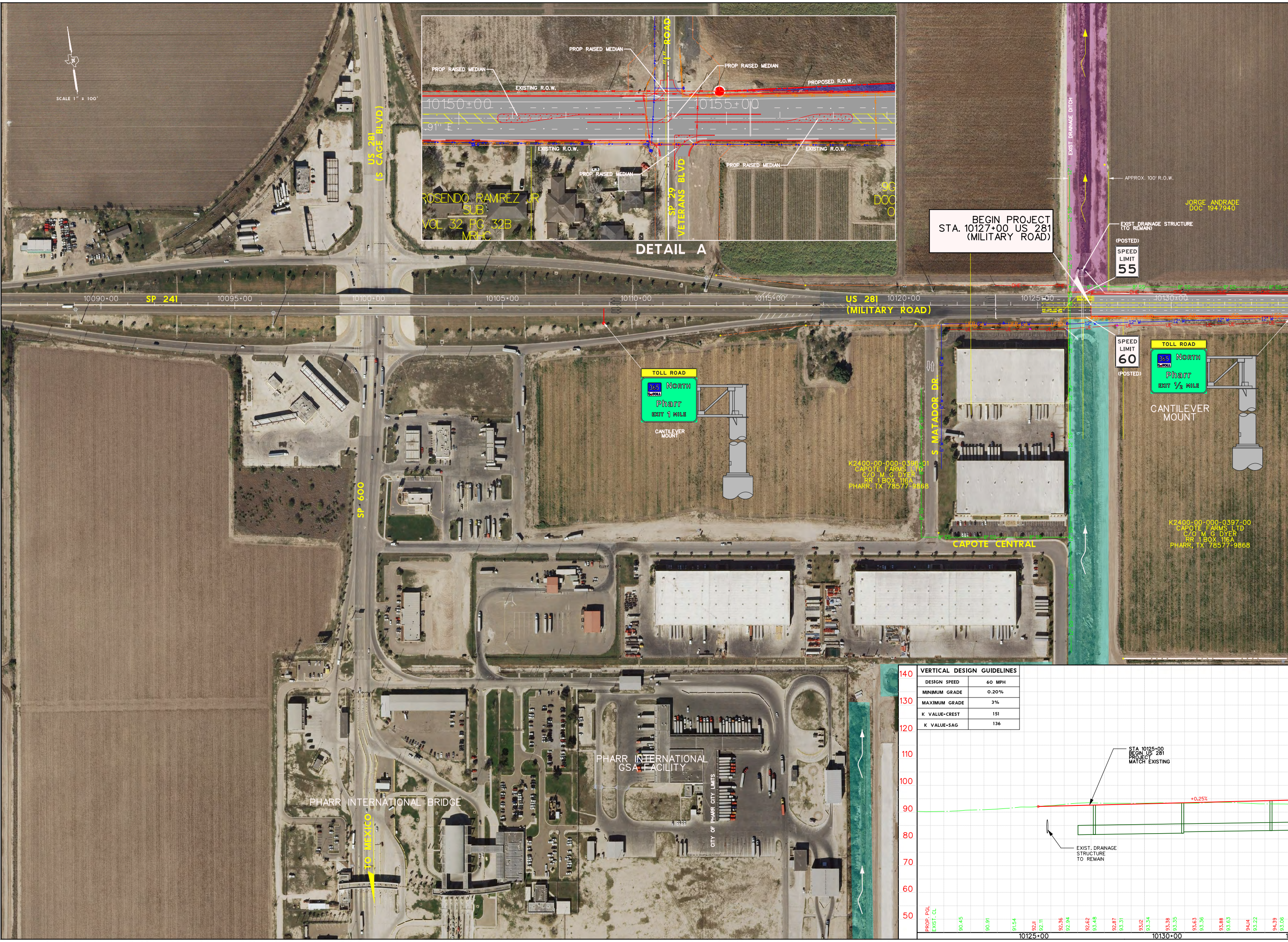
US 281 (MILITARY ROAD)
SCHEMATIC LAYOUT

DRAWING:	FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
CK:	6	TEXAS				US 281
ENGINEER CK:	STATE DIST. NO	COUNTY	CONT	SECT	JOB	SHEET NO.
REVIEW: CK:	PHR	HIDALGO	0220	01	023	1

THIS DOCUMENT IS NOT INTENDED FOR CONSTRUCTION OR BIDDING PURPOSES

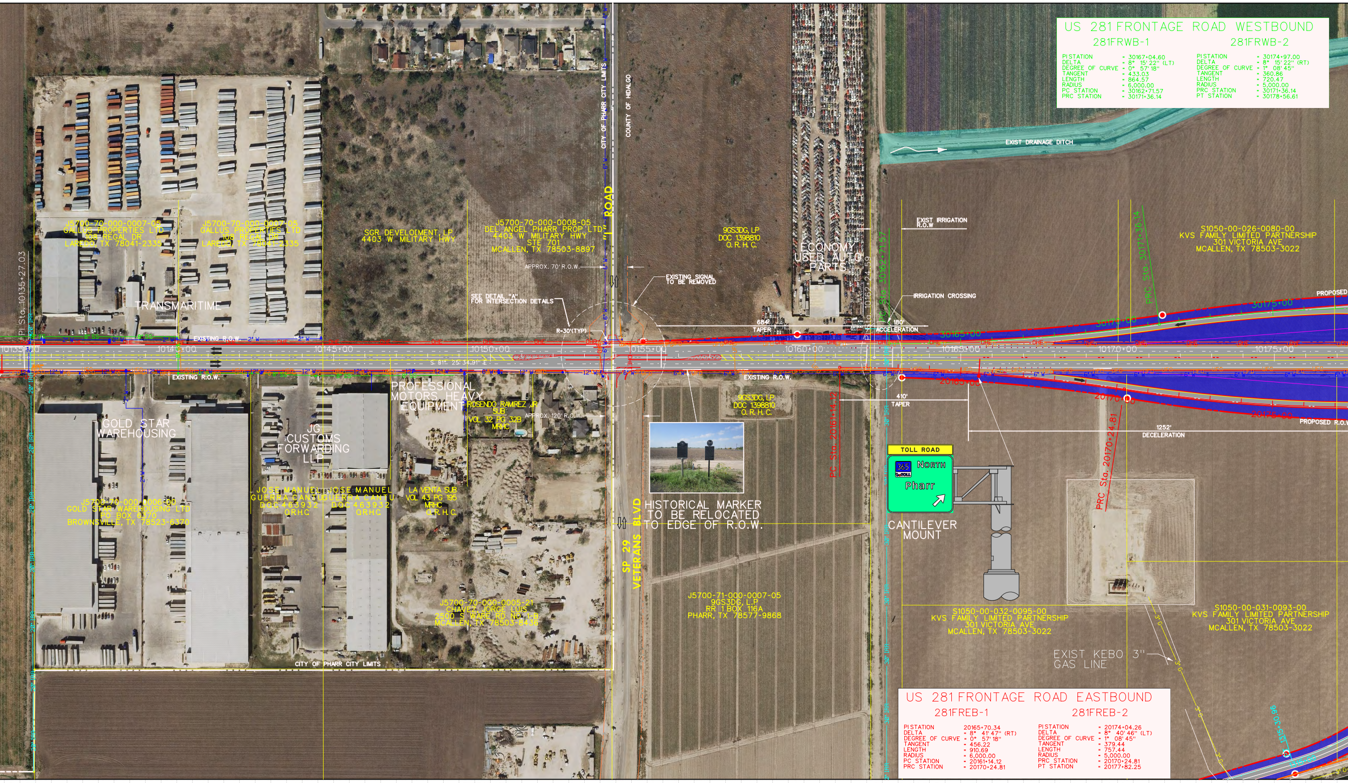
MARK D. CORBITT
101980

Mark Corbitt 1/20/2015
MARK D. CORBITT DATE



SCALE 1" = 100'
PROP RAISED MEDIAN
PROP RAISED MEDIAN
PROP RAISED MEDIAN
PROPOSED R.O.W.
EXISTING R.O.W.
EXISTING R.O.W.
EXISTING R.O.W.
"I" ROAD
10150+00
10155+00
PROP RAISED MEDIAN
PROP RAISED MEDIAN
ROSENDO RAMIREZ JR SUB VOL 32 PG 32B MRHC
SP 29 VETERANS BLVD
DETAIL A
US 281 (S CAGE BLVD)
SP 241
10090+00
10095+00
10100+00
10105+00
10110+00
10115+00
US 281 (MILITARY ROAD)
10120+00
10125+00
10130+00
EXIST DRAINAGE DITCH
APPROX. 100' R.O.W.
JORGE ANDRADE DOC 1947940
BEGIN PROJECT STA. 10127+00 US 281 (MILITARY ROAD)
EXIST DRAINAGE STRUCTURE (TO REMAIN)
(POSTED)
SPEED LIMIT 55
SPEED LIMIT 60
(POSTED)
TOLL ROAD
365 NORTH Pharr EXIT 1 MILE
CANTILEVER MOUNT
TOLL ROAD
365 NORTH Pharr EXIT ½ MILE
CANTILEVER MOUNT
S MATADOR DR
K2400-00-000-0396-01 CAPOTE FARMS LTD C/O M G DYER RR 1 BOX 116A PHARR, TX 78577-9868
K2400-00-000-0397-00 CAPOTE FARMS LTD C/O M G DYER RR 1 BOX 116A PHARR, TX 78577-9868
CAPOTE CENTRAL
SP 600
PHARR INTERNATIONAL GSA FACILITY
CITY OF PHARR CITY LIMITS
PHARR INTERNATIONAL BRIDGE
TO MEXICO
140
130
120
110
100
90
80
70
60
50
STA 10125+00 BEGIN US 281 PROJECT MATCH EXISTING
+0.25%
EXIST. DRAINAGE STRUCTURE TO REMAIN
PROP. PGL
EXIST. CL
90.45
90.91
91.54
92.11
92.11
92.36
92.94
92.62
93.48
92.87
93.31
93.12
93.34
93.38
93.35
93.63
93.36
93.88
93.63
94.14
93.22
94.39
93.06
10125+00
10130+00

VERTICAL DESIGN GUIDELINES	
DESIGN SPEED	60 MPH
MINIMUM GRADE	0.20%
MAXIMUM GRADE	3%
K VALUE-CREST	151
K VALUE-SAG	136

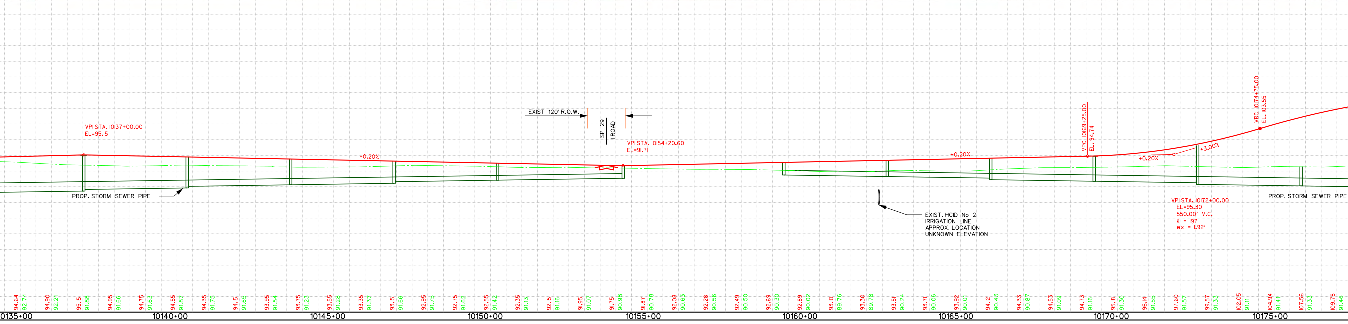

PI Sta. 10135+27.03
TRANSMARITIME
J5700-70-000-0007-05
GALLUS PROPERTIES LTD
108 REGAL DR
LAREDO, TX 78041-2335
J5700-70-000-0007-05
GALLUS PROPERTIES LTD
108 REGAL DR
LAREDO, TX 78041-2335
SGR DEVELO[MENT, LP
4403 W MILITARY HWY
J5700-70-000-0008-05
DEL ANGEL PHARR PROP LTD
4403 W MILITARY HWY
STE 701
MCALLEN, TX 78503-8897
CITY OF PHARR CITY LIMITS
COUNTY OF HIDALGO
"I" ROAD
APPROX. 70' R.O.W.
EXISTING SIGNAL TO BE REMOVED
SEE DETAIL "A" FOR INTERSECTION DETAILS
R-30'(TYP)
684' TAPER
9GS3DG, LP
DOC 1398810
O. R. H. C.
ECONOMY USED AUTO PARTS
PC Sta. 30162+71.57
IRRIGATION CROSSING
180' ACCELERATION
EXIST IRRIGATION R.O.W
EXIST DRAINAGE DITCH
PRC Sta. 30171+36.14
S1050-00-026-0080-00
KVS FAMILY LIMITED PARTNERSHIP
301 VICTORIA AVE
MCALLEN, TX 78503-3022
PROPOSED
30165+00
30170+00
30175+00
EXISTING R.O.W.
10135+00
10140+00
10145+00
10150+00
10155+00
10160+00
10165+00
10170+00
10175+00
S 81° 25' 34.91" E
OHE
UFO
12" W
6" W
8" SS
2" W
20" IRR
30" IRR
GOLD STAR WAREHOUSING
J5700-70-000-0006-00
GOLD STAR WAREHOUSING LTD
PO BOX 6370
BROWNSVILLE, TX 78523-6370
JG CUSTOMS FORWARDING LLP
JOSE MANUEL GUERRA CANTU
DOC 463932
O.R.H.C.
JOSE MANUEL GUERRA CANTU
DOC 463932
O.R.H.C.
PROFESSIONAL MOTORS HEAVY EQUIPMENT
LA VENTA SUB
VOL 43 PG 195
MRHC
O. R. H. C.
ROSENDO RAMREZ JR SUB
VOL 32 PG 32B
MRHC
APPROX. 120' R.O.W.
J5700-70-000-0005-21
CHAVEZ, JORGE LUIS
2500 S WARE RD NO 1-B
MCALLEN, TX 78503-8436
CITY OF PHARR CITY LIMITS
SP 29 VETERANS BLVD
HISTORICAL MARKER TO BE RELOCATED TO EDGE OF R.O.W.
J5700-71-000-0007-05
9GS3DG, L.P
RR 1 BOX 116A
PHARR, TX 78577-9868
9GS3DG, LP
DOC 1398810
O. R. H. C.
PC Sta. 20161+14.12
410' TAPER
20165+00
20170+00
20175+00
1252' DECELERATION
PROPOSED R.O.W.
TOLL ROAD
365 TOLL
NORTH
Pharr
CANTILEVER MOUNT
PRC Sta. 20170+24.81
S1050-00-032-0095-00
KVS FAMILY LIMITED PARTNERSHIP
301 VICTORIA AVE
MCALLEN, TX 78503-3022
S1050-00-031-0093-00
KVS FAMILY LIMITED PARTNERSHIP
301 VICTORIA AVE
MCALLEN, TX 78503-3022
EXIST KEBO 3" GAS LINE
3" G
PC Sta. 10175+30.96

US 281 FRONTAGE ROAD WESTBOUND

	281FRWB-1		281FRWB-2
PI STATION	- 30167+04.60	PI STATION	- 30174+97.00
DELTA	- 8° 15' 22" (LT)	DELTA	- 8° 15' 22" (RT)
DEGREE OF CURVE	- 0° 57' 18"	DEGREE OF CURVE	- 1° 08' 45"
TANGENT	- 433.03	TANGENT	- 360.86
LENGTH	- 864.57	LENGTH	- 720.47
RADIUS	- 6,000.00	RADIUS	- 5,000.00
PC STATION	- 30162+71.57	PRC STATION	- 30171+36.14
PRC STATION	- 30171+36.14	PT STATION	- 30178+56.61

US 281 FRONTAGE ROAD EASTBOUND

	281FREB-1		281FREB-2
PI STATION	20165+70.34	PI STATION	- 20174+04.26
DELTA	- 8° 41' 47" (RT)	DELTA	- 8° 40' 46" (LT)
DEGREE OF CURVE	- 0° 57' 18"	DEGREE OF CURVE	- 1° 08' 45"
TANGENT	- 456.22	TANGENT	- 379.44
LENGTH	- 910.69	LENGTH	- 757.44
RADIUS	- 6,000.00	RADIUS	- 5,000.00
PC STATION	- 20161+14.12	PRC STATION	- 20170+24.81
PRC STATION	- 20170+24.81	PT STATION	- 20177+82.25


VPI STA. 10137+00.00
EL=95.15
-0.20%
EXIST 120' R.O.W.
SP 29
I ROAD
VPI STA. 10154+20.60
EL=91.71
PROP. STORM SEWER PIPE
+0.20%
EXIST. HCID No 2
IRRIGATION LINE
APPROX. LOCATION
UNKNOWN ELEVATION
VPC 10169+25.00
EL. 94.74
+0.20%
+3.00%
VPI STA. 10172+00.00
EL=95.30
550.00' V.C.
K = 197
ex = 1.92'
VRC 10174+75.00
EL. 103.55
PROP. STORM SEWER PIPE
94.64
92.74
94.90
92.21
95.15
91.88
94.95
91.66
94.75
91.63
94.55
91.87
94.35
91.75
94.15
91.65
93.95
91.54
93.75
91.23
93.55
91.28
93.35
91.37
93.15
91.66
92.95
91.75
92.75
91.62
92.55
91.42
92.35
91.13
92.15
91.16
91.95
91.07
91.75
90.98
91.87
90.78
92.08
90.63
92.28
90.56
92.49
90.50
92.69
90.30
92.89
90.02
93.10
89.76
93.30
89.78
93.51
90.24
93.71
90.06
93.92
90.01
94.12
90.43
94.33
90.87
94.53
91.09
94.73
91.16
95.18
91.30
96.14
91.55
97.60
91.57
99.57
91.33
102.05
91.11
104.94
91.41
107.56
91.33
109.78
91.46
10135+00
10140+00
10145+00
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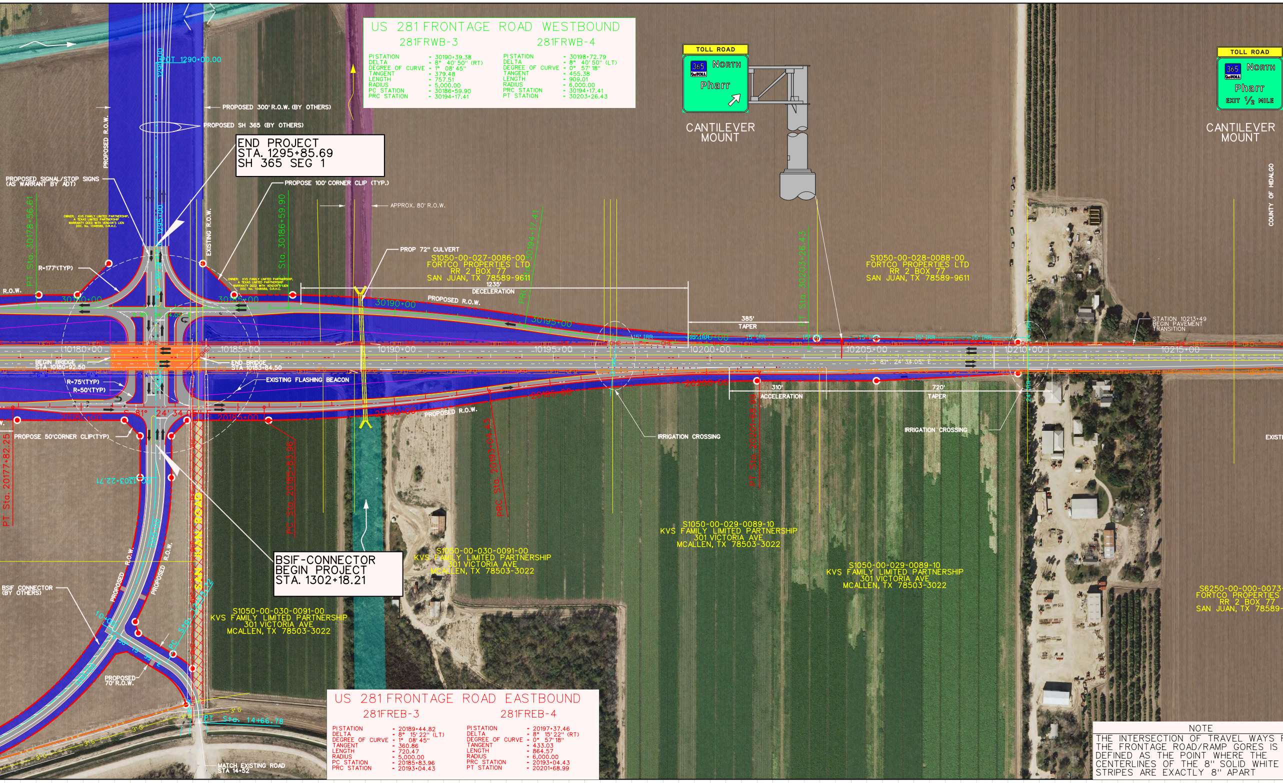
10160+00
10165+00
10170+00
10175+00


PI 1290+00.00
PROPOSED 300' R.O.W. (BY OTHERS)
PROPOSED SH 365 (BY OTHERS)
PROPOSED R.O.W.
END PROJECT
STA. 1295+85.69
SH 365 SEG 1
PROPOSED SIGNAL/STOP SIGNS
(AS WARRANT BY ADT)
PROPOSE 100' CORNER CLIP (TYP.)
APPROX. 80' R.O.W.
EXISTING R.O.W.
PT Sta. 30178+56.61
Sta. 30186+59.90
R=177'(TYP)
R.O.W.
PROP 72" CULVERT
S1050-00-027-0086-00
FORTCO PROPERTIES LTD
RR 2 BOX 77
SAN JUAN, TX 78589-9611
1235'
DECELERATION
PROPOSED R.O.W.
385'
TAPER
PT Sta. 30203+26.43
S1050-00-028-0088-00
FORTCO PROPERTIES LTD
RR 2 BOX 77
SAN JUAN, TX 78589-9611
TOLL ROAD
365 NORTH
Pharr
CANTILEVER MOUNT
TOLL ROAD
365 NORTH
Pharr
EXIT ½ MILE
CANTILEVER MOUNT
COUNTY OF HIDALGO
STATION 10213+49
BEGIN PAVEMENT
TRANSITION
10180+00
10185+00
10190+00
10195+00
10200+00
10205+00
10210+00
10215+00
30180+00
30185+00
30190+00
30195+00
BEGIN BRIDGE
STA 10180+92.50
END BRIDGE
STA 10183+84.50
EXISTING FLASHING BEACON
R=75'(TYP)
R=50'(TYP)
310'
ACCELERATION
720'
TAPER
IRRIGATION CROSSING
IRRIGATION CROSSING
S 81° 24' 34.05" E
PROPOSED R.O.W.
PROPOSE 50'CORNER CLIP(TYP.)
PT Sta. 20177+82.25
PC Sta. 20185+83.96
PRC Sta. 20193+04.43
PT Sta. 20201+68.99
1303+22.71
SAN JUAN ROAD
BSIF-CONNECTOR
BEGIN PROJECT
STA. 1302+18.21
BSIF CONNECTOR
(BY OTHERS)
PROPOSED R.O.W.
PROPOSED
70' R.O.W.
S1050-00-030-0091-00
KVS FAMILY LIMITED PARTNERSHIP
301 VICTORIA AVE
MCALLEN, TX 78503-3022
S1050-00-029-0089-10
KVS FAMILY LIMITED PARTNERSHIP
301 VICTORIA AVE
MCALLEN, TX 78503-3022
S6250-00-000-0073
FORTCO PROPERTIES
RR 2 BOX 77
SAN JUAN, TX 78589
PT Sta. 14+66.78
MATCH EXISTING ROAD
STA 14+52
EXIST

US 281 FRONTAGE ROAD WESTBOUND

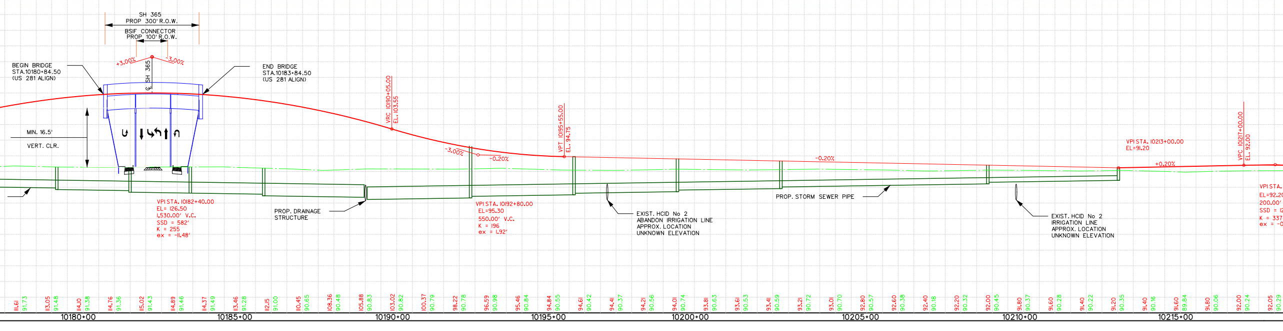
281FRWB-3		281FRWB-4	
PI STATION	- 30190+39.38	PI STATION	- 30198+72.79
DELTA	- 8° 40' 50" (RT)	DELTA	- 8° 40' 50" (LT)
DEGREE OF CURVE	- 1° 08' 45"	DEGREE OF CURVE	- 0° 57' 18"
TANGENT	- 379.48	TANGENT	- 455.38
LENGTH	- 757.51	LENGTH	- 909.01
RADIUS	- 5,000.00	RADIUS	- 6,000.00
PC STATION	- 30186+59.90	PRC STATION	- 30194+17.41
PRC STATION	- 30194+17.41	PT STATION	- 30203+26.43

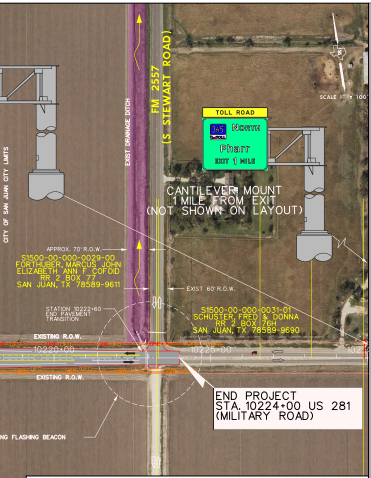
US 281 FRONTAGE ROAD EASTBOUND

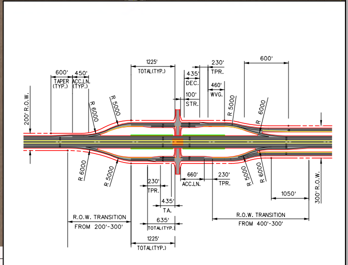
281FREB-3		281FREB-4	
PI STATION	- 20189+44.82	PI STATION	- 20197+37.46
DELTA	- 8° 15' 22" (LT)	DELTA	- 8° 15' 22" (RT)
DEGREE OF CURVE	- 1° 08' 45"	DEGREE OF CURVE	- 0° 57' 18"
TANGENT	- 360.86	TANGENT	- 433.03
LENGTH	- 720.47	LENGTH	- 864.57
RADIUS	- 5,000.00	RADIUS	- 6,000.00
PC STATION	- 20185+83.96	PRC STATION	- 20193+04.43
PRC STATION	- 20193+04.43	PT STATION	- 20201+68.99

NOTE

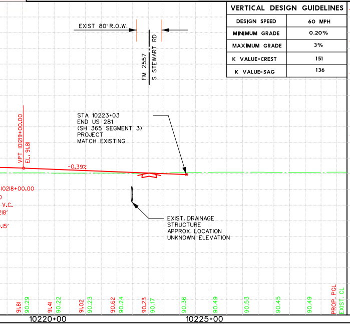
THE INTERSECTION OF TRAVEL WAYS F
THE FRONTAGE ROAD/RAMP GORES IS
DEFINED AS THE POINT WHERE THE
CENTERLINES OF THE 8" SOLID WHITE
STRIPES ARE EXACTLY 8" APART


SH 365
PROP 300' R.O.W.
BSIF CONNECTOR
PROP 100' R.O.W.
BEGIN BRIDGE
STA.10180+84.50
(US 281 ALIGN)
END BRIDGE
STA.10183+84.50
(US 281 ALIGN)
+3.00%
-3.00%
SH 365
MIN. 16.5'
VERT. CLR.
VPI STA. 10182+40.00
EL= 126.50
1,530.00' V.C.
SSD = 582'
K = 255
ex = -11.48'
PROP. DRAINAGE
STRUCTURE
VPC 10190+05.00
EL. 103.55
-3.00%
-0.20%
VPI STA. 10192+80.00
EL=95.30
550.00' V.C.
K = 196
ex = 1.92'
VPT 10195+55.00
EL. 94.75
EXIST. HCID No 2
ABANDON IRRIGATION LINE
APPROX. LOCATION
UNKNOWN ELEVATION
PROP. STORM SEWER PIPE
-0.20%
VPI STA. 10213+00.00
EL=91.20
+0.20%
EXIST. HCID No 2
IRRIGATION LINE
APPROX. LOCATION
UNKNOWN ELEVATION
VPC 10217+00.00
EL. 92.00
VPI STA.
EL=92.20
200.00'
SSD = 1
K = 337
ex = -0
10180+00
10185+00
10190+00
10195+00
10200+00
10205+00
10210+00
10215+00


FM 2557 (S STEWART ROAD)
EXIST DRAINAGE DITCH
CITY OF SAN JUAN CITY LIMITS
SCALE 1" = 100'
TOLL ROAD
365 NORTH
Pharr
EXIT 1 MILE
CANTILEVER MOUNT
1 MILE FROM EXIT
(NOT SHOWN ON LAYOUT)
APPROX. 70' R.O.W.
S1500-00-000-0029-00
FORTHUBER, MARCUS JOHN
ELIZABETH ANN F COFOID
RR 2 BOX 77
SAN JUAN, TX 78589-9611
EXIST 60' R.O.W.
STATION 10222+60
END PAVEMENT
TRANSITION
S1500-00-000-0031-01
SCHUSTER, FRED & DONNA
RR 2 BOX 76H
SAN JUAN, TX 78589-9690
EXISTING R.O.W.
10220+00
10225+00
EXISTING R.O.W.
END PROJECT
STA. 10224+00 US 281
(MILITARY ROAD)
NG FLASHING BEACON


1225' TOTAL(TYP.)
230' TPR.
600'
600' TAPER (TYP.)
450' ACC.LN. (TYP.)
435' DEC.
100' STR.
460' WVG.
200' R.O.W.
R 6000
R 5000
R 5000
R 6000
R 6000
R 5000
R 5000
R 6000
230' TPR.
660' ACC.LN.
230' TPR.
435' TA.
635' TOTAL(TYP.)
1225' TOTAL(TYP.)
1050'
300' R.O.W.
R.O.W. TRANSITION FROM 200'-300'
R.O.W. TRANSITION FROM 400'-300'

INTERSECTION LAYOUT TYPICAL



VERTICAL DESIGN GUIDELINES	
DESIGN SPEED	60 MPH
MINIMUM GRADE	0.20%
MAXIMUM GRADE	3%
K VALUE-CREST	151
K VALUE-SAG	136

PLAN LEGEND

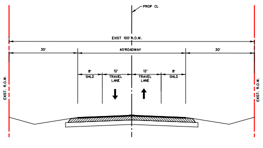
—	CITY LIMITS
— —	PROPOSED RIGHT OF WAY
— —	EXISTING RIGHT OF WAY
— —	EXISTING INTERNATIONAL LEVEE R.O.W.
— CA —	CONTROL OF ACCESS
—●—	BEGIN/END R.O.W. TRANSITION
—	PROPOSED RETAINING WALL
—	PROPOSED TOE OF SLOPE
▨	PROPOSED GAS EASEMENT
🟧	PROPOSED BRIDGE MAINLANES
☐	EXISTING BRIDGE
🟦	EXISTING DRAINAGE CHANNEL
🟪	PROPOSED DRAINAGE CHANNEL
🟩	EXISTING USFWS CORRIDOR/TRACT
🟦	EXISTING FLOODWAY
▨	EXISTING CONSTRAINTS
▨	FUTURE PAVEMENT / ULTIMATE SECTION
▨	EXISTING ROAD TO BE OBLITERATED
🟨	AREAS OF IMPACT
🟦	PROPOSED R.O.W.
🟥	PROPOSED RAMPS GANTRY
— — —	EXISTING IRRIGATION STRUCTURE
— — —	EXISTING DRAINAGE STRUCTURE
—	PROPOSED IRRIGATION STRUCTURE
—	PROPOSED DRAINAGE STRUCTURE
➡	PROPOSED TRAFFIC
⇨	EXISTING TRAFFIC
→	PROPOSED DRAINAGE FLOW
→	EXISTING DRAINAGE FLOW

UTILITIES LEGEND

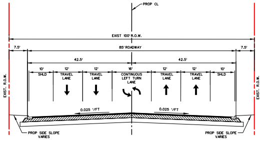
— OHEC —	EXIST. OVERHEAD POWER LINE WITH CABLE ATTACHED
— OHET —	EXIST. OVERHEAD POWER LINE WITH TELEPHONE LINE ATTACHED
— OHE —	EXIST. OVERHEAD POWER LINE
— UE —	EXIST. UNDERGROUND POWER LINE
—●—	EXISTING HIGH TENSION POWER LINES
— G —	EXIST. GAS LINE
— W —	EXIST. WATER LINE
— SS —	EXIST. SANITARY SEWER LINE
— FM —	EXIST. SANITARY SEWER FORCEMAIN
— UFO —	EXIST. UNDERGROUND FIBER OPTIC
— AFO —	EXIST. AERIAL FIBER OPTIC
—	EXIST. IRRIGATION LINES
☼	DRY HOLE
☼	GAS WELL
●	HORIZONTAL DRAIN HOLE
☼	OIL/GAS WELL
●	PERMITTED LOCATION
☼	PLUGGED GAS WELL
●	PLUGGED OIL WELL
☼	PLUGGED OIL/GAS WELL
☼	SHUT-IN WELL (GAS)
●	SIDETRACK WELL SURFACE LOCATION

NOTE:
ALL UTILITY AND DRAINAGE FEATURES AND FRONTAGE ROAD LOCATIONS WERE PROVIDED BY HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY.

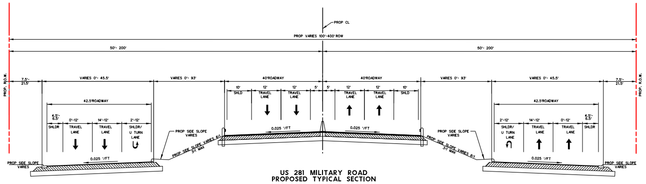
DESIGN SPEED TABLE	
MAINLANES	60 MPH
RAMP	50 MPH
FRONTAGE	50 MPH
BSIF CONNECTOR	45 MPH
I ROAD	30 MPH
FM 2557	55 MPH


PROP CL
EXIST 100' R.O.W.
30'
40' ROADWAY
30'
8' SHLD
12' TRAVEL LANE
12' TRAVEL LANE
8' SHLD
EXIST. R.O.W.
EXIST. R.O.W.

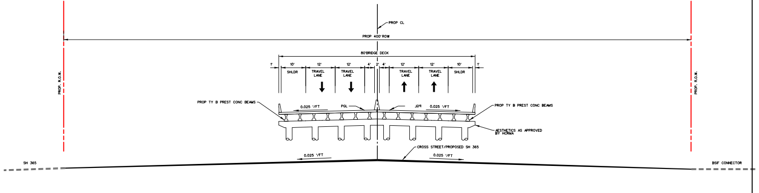
US 281 MILITARY ROAD
EXISTING TYPICAL SECTION


PROP CL
EXIST 100' R.O.W.
85' ROADWAY
7.5'
42.5'
42.5'
10' SHLD
12' TRAVEL LANE
12' TRAVEL LANE
16' CONTINUOUS LEFT TURN LANE
12' TRAVEL LANE
12' TRAVEL LANE
10' SHLD
0.025 '/FT
0.025 '/FT
PROP SIDE SLOPE VARIES
EXIST. R.O.W.

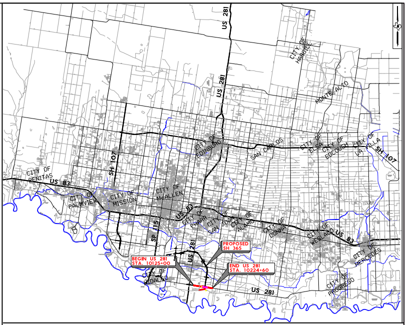
US 281 MILITARY ROAD
PROPOSED TYPICAL SECTION
STATION 10125+20 TO STATION 10157+00
STATION 10207+00 TO STATION 10224+60


PROP CL
PROP VARIES 100'-400' ROW
50'- 200'
50'- 200'
VARIES 0'- 45.5'
VARIES 0'- 93'
40' ROADWAY
40' ROADWAY
42.5' ROADWAY
SHLDR
TRAVEL LANE
SHLDR/ U TURN LANE
0.025 '/FT
PROP SIDE SLOPE VARIES
PROP. R.O.W.

US 281 MILITARY ROAD
PROPOSED TYPICAL SECTION
STATION 10157+00 TO STATION 10180+94
STATION 10183+86 TO STATION 10207+00


PROP CL
PROP 400' ROW
80' BRIDGE DECK
SHLDR
TRAVEL LANE
PROP TY B PREST CONC BEAMS
0.025 '/FT
PGL
AESTHETICS AS APPROVED BY HCRMA
CROSS STREET/PROPOSED SH 365
SH 365
BSIF CONNECTOR
PROP. R.O.W.

US 281 MILITARY ROAD
PROPOSED TYPICAL SECTION
STATION 10180+94 TO STATION 10183+86


US 281
CITY OF HARGILL
MONTE ALTO
CITY OF EDINBURG
SAN CARLOS
CITY OF ELSA
CITY OF EDCOUCH
CITY OF LA VILLA
SH 107
CITY OF PENITAS
US 83
CITY OF PALMVIEW
CITY OF MISSION
CITY OF McALLEN
CITY OF PHARR
CITY OF SAN JUAN
CITY OF ALAMO
CITY OF DONNA
CITY OF WESLACO
CITY OF MERCEDES
CITY OF PROGRESO
SP 115
PROPOSED SH 365
BEGIN US 281 STA. 10125+00
END US 281 STA. 10224+60

VICINITY MAP N.T.S.

DESIGN DATA

US 281 (MILITARY ROAD)

CSJ : 0220-01-023
NET LENGTH : 1.88 MILES
LIMITS : FROM 0.47 MILES EAST OF US 281 (SOUTH CAGE BLVD)
: TO FM 2557 (SOUTH STEWART ROAD)
FUNCTIONAL CLASSIFICATION : ARTERIAL
DESIGN SPEED : 60 MPH
ADT (2015) : 28,600
(2035) : 39,600
e MAX : 6%
DESIGN CRITERIA : TxDOT ROADWAY DESIGN MANUAL CHAPTER 3, SECTION 2 - (URBAN STREET)

THIS DOCUMENT IS NOT INTENDED FOR CONSTRUCTION OR BIDDING PURPOSES

MARK D. CORBITT
101980
LICENSED
PROFESSIONAL ENGINEER

Mark Corbitt
MARK D. CORBITT
1/20/2015
DATE

HCRMA
HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

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Consulting Engineers
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Mission, Texas 78572
(956) 424-7898
TEDSI
TBPE F-1640

US 281 (MILITARY ROAD) SCHEMATIC LAYOUT

DRAWING:				
CK:				
ENGINEER				
CK:				
REVIEW:				
CK:				

FED. RD. DIV. NO.	STATE	PROJECT NO.		HIGHWAY NO.
6	TEXAS			US 281
STATE DIST. NO	COUNTY	CONT	SECT	JOB	SHEET NO.
PHR	HIDALGO	0220	01	023	1