ALTERNATIVE 1 - PREFERRED

Scale: 0' 50' 100' 200'

Date:

CSJ: 0255-06-069, ETC.

US 281

Texas Department of Transportation

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FILE: N:\0024-15-101\CADD\DGN\SCHEMATIC ALTERNATIVES\ALTERNATIVE 1 FOR PUBLIC MEETING PREFERRED NO PROFILES\PM=PREFERRED=US281=SEG=2=ALT=1=ROLLPLOT=200-1.dgn
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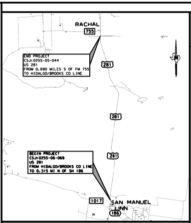
RACHAL
755
END PROJECT
CSJ: 0255-05-044
US 281
FROM 0.690 MILES S OF FM 755
TO HIDALGO/BROOKS CO LINE
281
281
281
BEGIN PROJECT
CSJ: 0255-06-069
US 281
FROM HIDALGO/BROOKS CO LINE
TO 0.315 MI N OF SH 186
1017
SAN MANUEL
LINN
186

COLOR LEGEND

- 🟨 PROPOSED MAINLANES
- 🟦 FRONTAGE ROADS
- 🟪 RAMPS
- 🟩 EXISTING STRUCTURES
- 🟥 PROPOSED BRIDGE STRUCTURES
- ━ PROPOSED RETAINING WALL
- ➡ PROPOSED LANE INDICATOR
- ━ ╍ ━ PROPOSED RIGHT-OF-WAY
- ━ PROPOSED CONTROL OF ACCESS (COA)
- — · — EXISTING RIGHT-OF-WAY
- ⇨ EXISTING LANE INDICATOR
- - - ULTIMATE PAVEMENT WIDTH

● EXISTING CROSSOVER

AVERAGE DAILY TRAFFIC VOLUMES

CSJ 0255-06-069
US 281
From: HIDALGO/BROOKS COUNTY LINE
To: 0.315 MILES NORTH OF SH 186

EXIST 2016	LETTING 2020	DESIGN 2040
12,508	13,540	24,644

CSJ 0255-05-044
US 281
From: 0.690 MILES SOUTH OF FM 755
To: HIDALGO/BROOKS COUNTY LINE IN BROOKS COUNTY

EXIST 2016	LETTING 2020	DESIGN 2035
12,182	13,186	24,003

NOTES:

1.) TRAFFIC NUMBERS FOR 2015 & 2035 WERE OBTAINED FROM TxDOT PLANNIG MAP AND WERE UPDATED TO 2016, 2020 AND 2040 USING AN ESTIMATED 2% INCREASE IN TRAFFIC PER YEAR.

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

Texas Department of Transportation
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ENTECH
CIVIL ENGINEERS, INC
F-6932

ENTECH
PRELIMINARY
Document Incomplete: not intended for permit, bidding or construction.
Engineer: OCTAVIO N. GUERRA, P.E.
P.E. Serial No. 95688
Date: 10/19/2018

TEXAS DEPARTMENT OF TRANSPORTATION
PRELIMINARY DESIGN SCHEMATIC
US 281
HIDALGO/BROOKS COUNTY

LIMITS: From: 0.690 MILES SOUTH OF FM 755
To: 0.315 MILES NORTH OF SH 186

C-S-J-: 0255-06-069, etc.
FED. AID PROJECT NO.:
LENGTH: CSJ 0255-06-069 15.522 MILES
CSJ 0255-05-044 7.220 MILES
Existing Posted Speed: 75 MPH - MAINLANES

OFFICE OF DISTRICT ENGINEER
PHARR DISTRICT

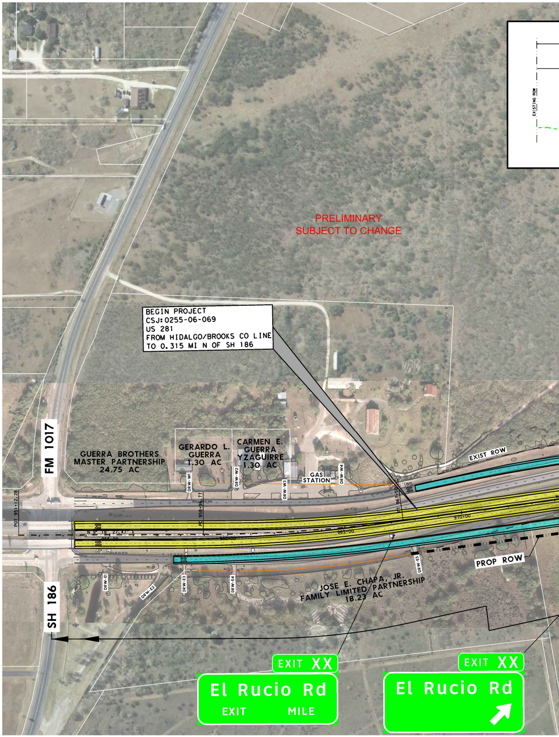
DESIGN SPEED: 75 MPH - Mainlane; 50 MPH Frontage Roads & Ramps
Functional Classification: Rural Freeway
Chapter 3, Section 6 Freeways
Superelevation Rate e_{max} = 6%

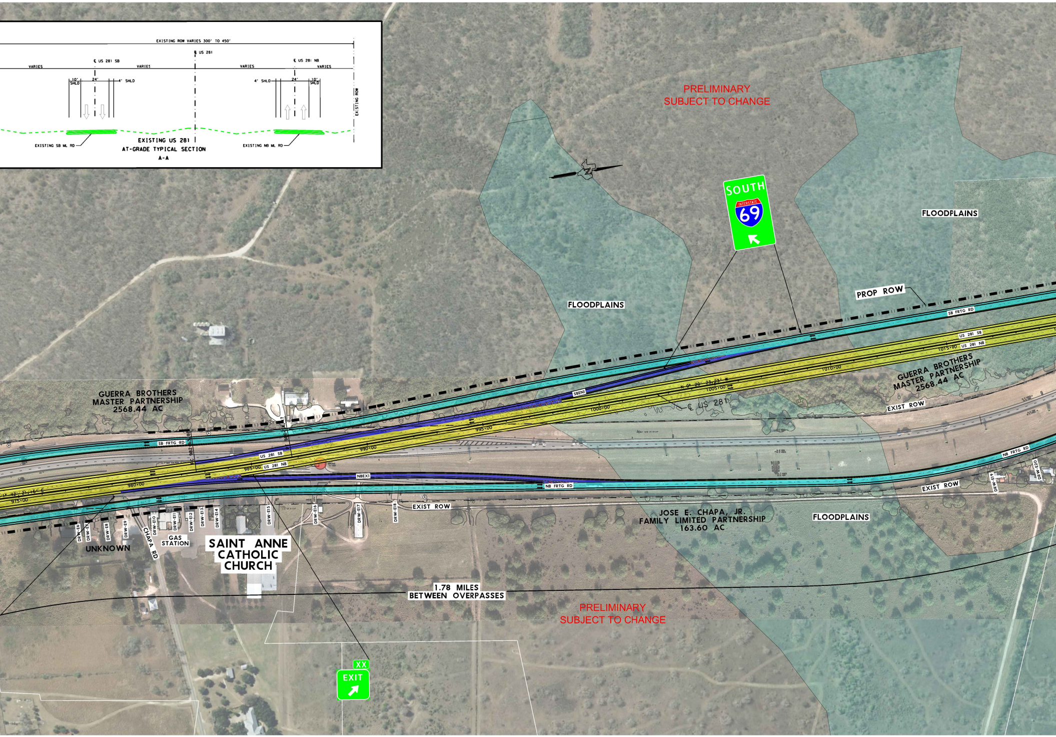
10/19/2018

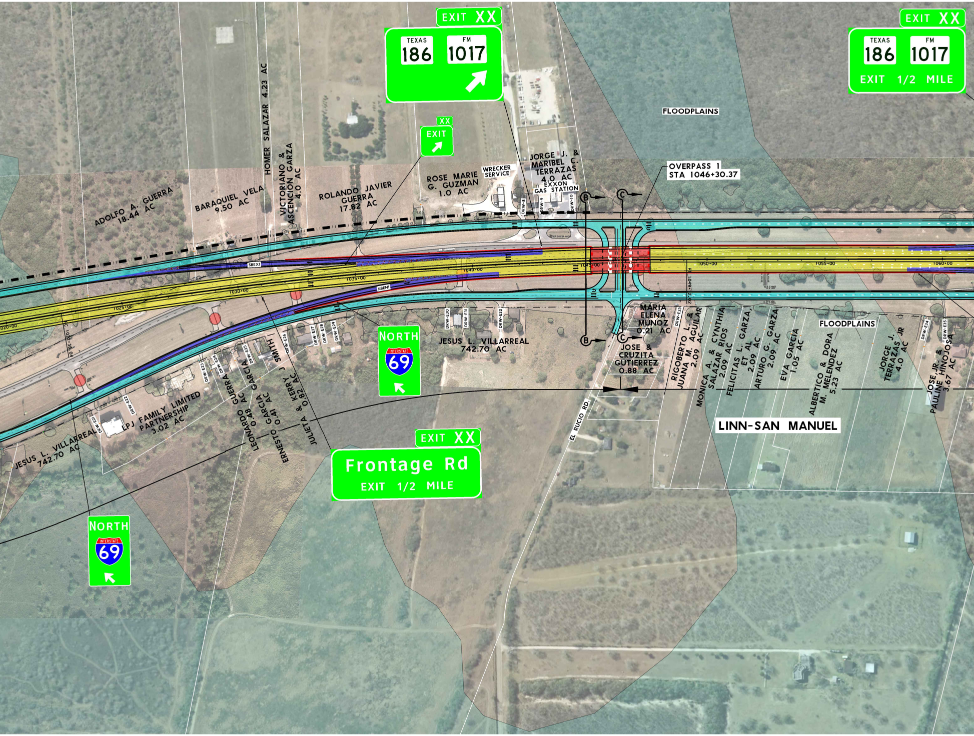
US 281-SEGMENT 2
ALTERNATIVE 1 - PREFERRED

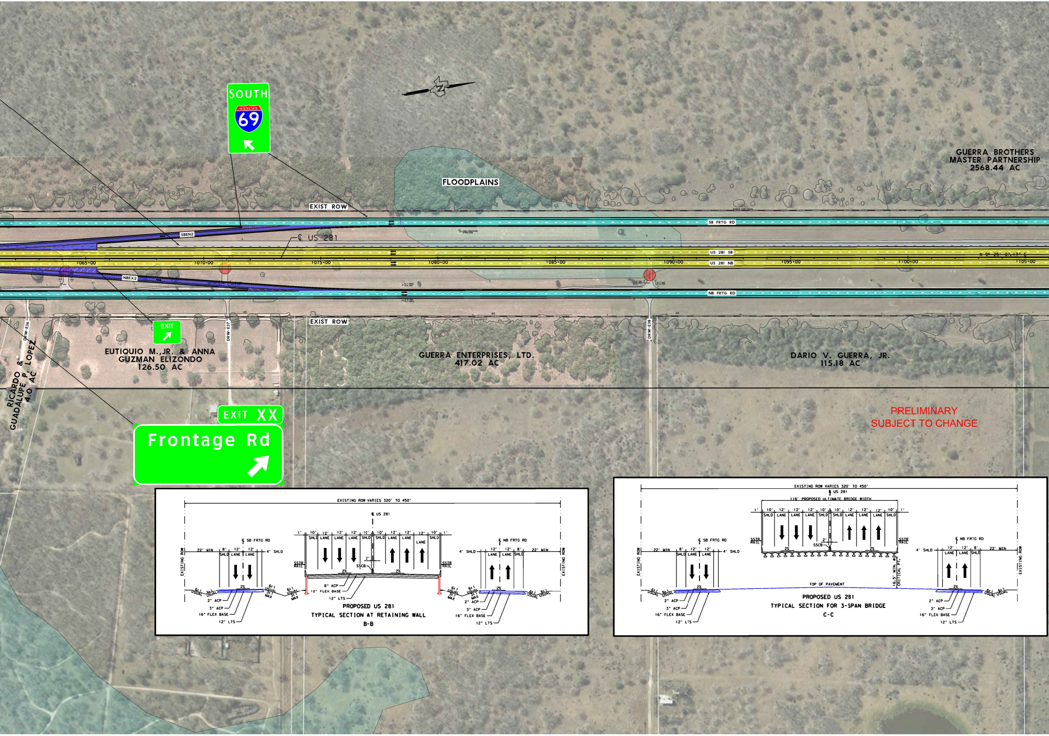
STA. 950+00 TO STA. 1164+00

ROLL 1 OF 6


PRELIMINARY
SUBJECT TO CHANGE
BEGIN PROJECT
CSJ: 0255-06-069
US 281
FROM HIDALGO/BROOKS CO LINE
TO 0.315 MI N OF SH 186
EXISTING ROW
FM 1017
SH 186
GUERRA BROTHERS MASTER PARTNERSHIP 24.75 AC
GERARDO L. GUERRA 1.30 AC
CARMEN E. GUERRA YZAGUIRRE 1.30 AC
GAS STATION
DRW-W1
DRW-W2
DRW-W3
DRW-W4
DRW-E1
DRW-E2
DRW-E3
DRW-E4
DRW-E5
EXIST ROW
PROP ROW
POT 951+12.28
PC 958+96.77
PT 961+50
965+00
970+00
JOSE E. CHAPA, JR. FAMILY LIMITED PARTNERSHIP 18.23 AC
EXIT XX
El Rucio Rd
EXIT MILE
EXIT XX
El Rucio Rd


EXISTING ROW VARIES 300' TO 450'
℄ US 281
℄ US 281 SB
℄ US 281 NB
VARIES
VARIES
VARIES
VARIES
10' SHLD
24'
4' SHLD
4' SHLD
24'
10' SHLD
EXISTING ROW
EXISTING SB ML RD
EXISTING US 281
AT-GRADE TYPICAL SECTION
A-A
EXISTING NB ML RD
PRELIMINARY
SUBJECT TO CHANGE
SOUTH
INTERSTATE
69
FLOODPLAINS
FLOODPLAINS
PROP ROW
SB FRTG RD
US 281 SB
US 281 NB
1015+00
1010+00
GUERRA BROTHERS
MASTER PARTNERSHIP
2568.44 AC
SBENT
N 0° 20' 23.23" W
1005+00
℄ US 281
1000+00
EXIST ROW
GUERRA BROTHERS
MASTER PARTNERSHIP
2568.44 AC
SB FRTG RD
995+00
990+00
US 281 SB
985+00
US 281 NB
980+00
975+00
NBEXT
NB FRTG RD
NB FRTG RD
EXIST ROW
EXIST ROW
DRW-E6
DRW-E7
DRW-E8
DRW-E9
CHAPA RD
DRW-E10
DRW-E11
DRW-E12
DRW-E13
DRW-E14
DRW-E15
DRW-E16
DRW-E17
DRW-E18
DRW-E19
DRW-E20
UNKNOWN
GAS
STATION
SAINT ANNE
CATHOLIC
CHURCH
JOSE E. CHAPA, JR.
FAMILY LIMITED PARTNERSHIP
163.60 AC
FLOODPLAINS
1.78 MILES
BETWEEN OVERPASSES
PRELIMINARY
SUBJECT TO CHANGE
XX
EXIT

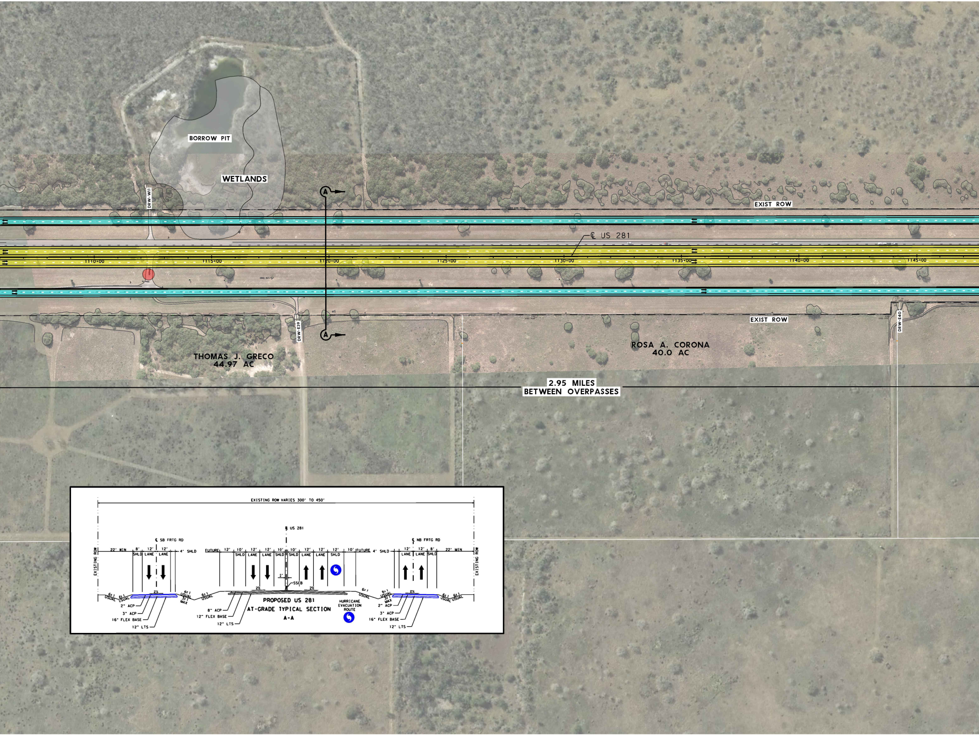

EXIT XX
TEXAS 186
FM 1017
EXIT XX
TEXAS 186
FM 1017
EXIT 1/2 MILE
FLOODPLAINS
XX
EXIT
HOMER SALAZAR 4.23 AC
VICTORIANO & ASCENCION GARZA 4.0 AC
ADOLFO A. GUERRA 18.44 AC
BARAQUIEL VELA 9.50 AC
ROLANDO JAVIER GUERRA 17.82 AC
ROSE MARIE G. GUZMAN 1.0 AC
WRECKER SERVICE
JORGE J. & MARIBEL C. TERRAZAS 4.0 AC
EXXON GAS STATION
DRW-8
DRW-9
DRW-10
OVERPASS 1
STA 1046+30.37
B
C
SBEX1
NBEN1
1020+00
1025+00
1030+00
1035+00
1040+00
1045+00
1050+00
1055+00
1060+00
PC 1022+38.04
PT 1049+2.02
DRW-E21
DRW-E22
DRW-E23
DRW-E24
DRW-E25
DRW-E26
DRW-E27
DRW-E28
DRW-E29
DRW-E30
DRW-E31
DRW-E32
DRW-E33
DRW-E34
DRW-E35
NORTH
INTERSTATE 69
JESUS L. VILLARREAL 742.70 AC
MARIA ELENA MUNOZ 0.21 AC
JOSE & CRUZITA GUTIERREZ 0.88 AC
RIGOBERTO L. & JUANA M. AGUILAR 2.09 AC
MONICA A. & CYNTHIA SALAZAR RIOS 2.09 AC
FELICITAS L. GARZA, ET AL 2.09 AC
ARTURO G. GARZA 2.09 AC
EVA GARCIA 1.05 AC
ALBERTICO & DORA M. MELENDEZ 5.23 AC
JORGE J. TERRAZAS JR 4.0 AC
JOSE, JR. & PAULINE HINOJOSA 3.67 AC
FLOODPLAINS
LINN-SAN MANUEL
EL RUCIO RD.
LPJ FAMILY LIMITED PARTNERSHIP 3.02 AC
GUERRA
LEONARDO GARCIA 0.48 AC
ERNESTO GARCIA 0.41 AC
JULIETA & KERRY J SMITH 0.82 AC
JESUS L. VILLARREAL 742.70 AC
EXIT XX
Frontage Rd
EXIT 1/2 MILE
NORTH
INTERSTATE 69

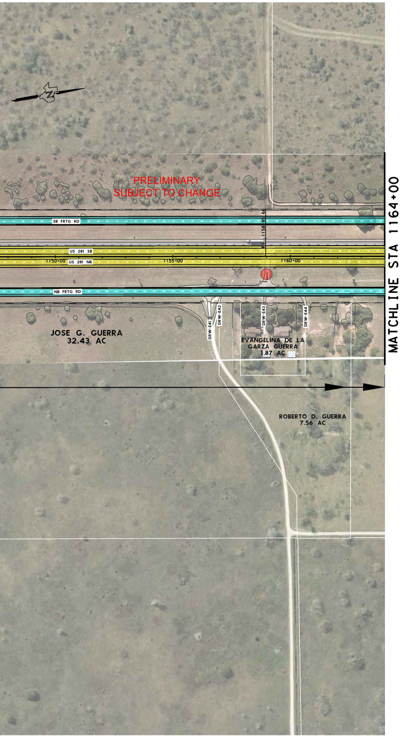

SOUTH
INTERSTATE
69
GUERRA BROTHERS
MASTER PARTNERSHIP
2568.44 AC
FLOODPLAINS
EXIST ROW
SB FRTG RD
SBEN2
℄ US 281
US 281 SB
US 281 NB
1065+00
1070+00
1075+00
1080+00
1085+00
1090+00
1095+00
1100+00
1105+00
N 9° 25' 07.17" E
NBEX2
NB FRTG RD
EXIST ROW
EXIT
DRW-E36
DRW-E37
DRW-E38
EUTIQUIO M.,JR. & ANNA
GUZMAN ELIZONDO
126.50 AC
RICARDO & LOPEZ
GUADALUPE P.
4.0 AC
GUERRA ENTERPRISES, LTD.
417.02 AC
DARIO V. GUERRA, JR.
115.18 AC
EXIT XX
Frontage Rd
EXISTING ROW VARIES 320' TO 450'
℄ US 281
℄ SB FRTG RD
℄ NB FRTG RD
EXISTING ROW
22' MIN
8'
12'
SHLD
LANE
4' SHLD
1'
10'
SSTR RAIL
SSCB
2'
2%
6:1 USUAL
3:1 MAX
8" ACP
12" FLEX BASE
12" LTS
2" ACP
3" ACP
16" FLEX BASE
116' PROPOSED ULTIMATE BRIDGE WIDTH
TOP OF PAVEMENT
16.5' MIN. @ CRITICAL PT.

PROPOSED US 281
TYPICAL SECTION AT RETAINING WALL
B-B

PROPOSED US 281
TYPICAL SECTION FOR 3-SPAN BRIDGE
C-C

PRELIMINARY
SUBJECT TO CHANGE


BORROW PIT
WETLANDS
DRW-W11
A
EXIST ROW
℄ US 281
1110+00
1115+00
1120+00
1125+00
1130+00
1135+00
1140+00
1145+00
DRW-E39
A
EXIST ROW
DRW-E40
THOMAS J. GRECO
44.97 AC
ROSA A. CORONA
40.0 AC
2.95 MILES
BETWEEN OVERPASSES
EXISTING ROW VARIES 300' TO 450'
℄ US 281
℄ SB FRTG RD
℄ NB FRTG RD
EXISTING ROW
22' MIN
8' SHLD
12' LANE
12' LANE
4' SHLD
FUTURE
12'
10' SHLD
12' LANE
12' LANE
10' SHLD
10' SHLD
12' LANE
12' LANE
12' SHLD
10'
FUTURE
4' SHLD
12' LANE
12' LANE
8' SHLD
22' MIN
EXISTING ROW
2'
SSCB
2%
6:1 USUAL
3:1 MAX
2" ACP
3" ACP
16" FLEX BASE
12" LTS
8" ACP
12" FLEX BASE
12" LTS
PROPOSED US 281
AT-GRADE TYPICAL SECTION
A-A
HURRICANE EVACUATION ROUTE


PRELIMINARY
SUBJECT TO CHANGE
SB FRTG RD
US 281 SB
US 281 NB
NB FRTG RD
1150+00
1155+00
1160+00
FI 1158+95.66
DRW-E41
DRW-E42
DRW-E43
DRW-E44
JOSE G. GUERRA
32.43 AC
EVANGELINA DE LA
GARZA GUERRA
1.87 AC
ROBERTO D. GUERRA
7.56 AC
MATCHLINE STA 1164+00

ROLL 1 OF 6

US 281

CSJ: 0255-06-069, ETC.

Date:

Scale: 0' 50' 100' 200'

ALTERNATIVE 1 - PREFERRED