TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM 0.6 MILES EAST OF FM1208 TO SH349
CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	55 MPH	URBAN INTERSTATE
RAMPS	55 MPH	URBAN INTERSTATE
FRONTAGE ROADS	35 MPH	URBAN LOCAL STREET/COLLECTOR
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
FM1208	45 MPH	URBAN ARTERIAL
FM715, FM 307	45 MPH	MINOR ARTERIAL
SH 349 & E	55 MPH	RURAL MINOR ARTERIAL
FM 1788	65 MPH	RURAL MINOR COLLECTOR

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC STUDY PROJECTIONS PREPARED BY HOUSTON ASSOCIATES, INC. DATED XXX 0, 2XXX

	2X-YR FW 866 TO E LOOP 338	3X-YR E LOOP 338 TO FM 1208
DIRECTIONAL DISTRIBUTION	52%	52%
PERCENT TRUCKS OF DHV	23.9%	24.5%
K FACTOR	9.1%	9.1%

LEGEND:

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- EXCAVATED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- ALIGNMENT NAME
- CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (CSA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (BY PERMIT)
- PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PHOTO SEPTEMBER 17, 2017.
2. EXISTING TOPOGRAPHY SHOWN WAS PROVIDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2018.
3. EXISTING RIGHT-OF-WAY LINES WERE DEVELOPED FROM RECORDS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. BRIDGE STRUCTURE LOCATIONS SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, TEXAS COORDINATED WITH TXDOT.
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JULY, 2018)

PROJECT LOCATION MAP
NTS

ROLL: 1 OF 12

SHEET INDEX

0001 - TITLE SHEET
0002 - TYPICAL SECTIONS
0003 - TYPICAL SECTIONS
0004 - TYPICAL SECTIONS
0005 - TYPICAL SECTIONS
0006 - TYPICAL SECTIONS
0007 - TYPICAL SECTIONS
0008 - TYPICAL SECTIONS
0009 - TYPICAL SECTIONS
0010 - TYPICAL SECTIONS
0011 - TYPICAL SECTIONS
0012 - TYPICAL SECTIONS

Jacobs

PRELIMINARY FOR DESIGN REVIEW ONLY

DESIGNED	N/A	DATE	11/01/2021
DRAWN	N/A	DATE	11/01/2021
REVIEWED	N/A	DATE	11/01/2021
SUPERVISOR	N/A	DATE	11/01/2021

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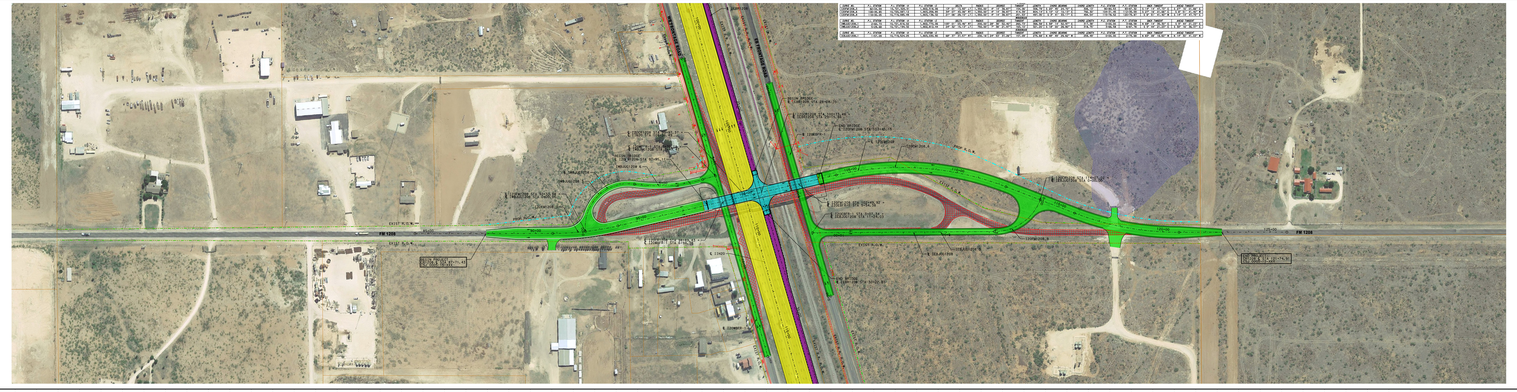
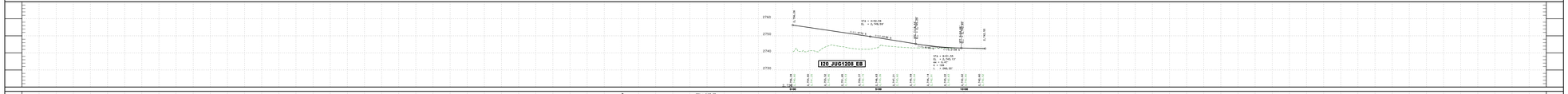
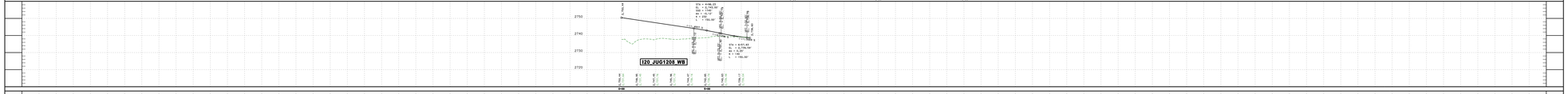
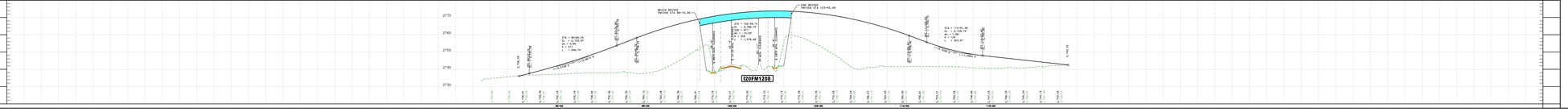








TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

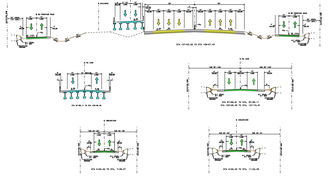
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM 0.6 MILES EAST OF FM1208 TO SH349
CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	55 MPH	URBAN INTERSTATE
RAMPS	55 MPH	URBAN INTERSTATE
FRONTAGE ROADS	35 MPH	URBAN LOCAL STREET/COLLECTOR
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
FM1208	45 MPH	URBAN ARTERIAL
FM715, FM 307	45 MPH	MINOR ARTERIAL
SH 349 & E	55 MPH	RURAL MINOR ARTERIAL
FM 1788	65 MPH	RURAL MINOR COLLECTOR

EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTIONS

Jacobs

PRELIMINARY FOR DESIGN REVIEW ONLY

DESIGNED	N/A	DATE	11/01/2021
DRAWN	N/A	DATE	11/01/2021
REVIEWED	N/A	DATE	11/01/2021
SUPERVISOR	N/A	DATE	11/01/2021

ROLL: 1 OF 12

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TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM 0.6 MILES EAST OF FM1208 TO SH349
CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	70 MPH	URBAN INTERSTATE
RAMPS	50 MPH	URBAN INTERSTATE
FRONTAGE ROADS	35 MPH	URBAN LOCAL STREET/TOUR
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
FM1208	45 MPH	URBAN MINOR ARTERIAL
FM715, FM 307	45 MPH	MINOR ARTERIAL
SH349 & SP 1	55 MPH	RURAL MINOR ARTERIAL
FM 1788	60 MPH	RURAL MINOR COLLECTOR

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC STUDY PREPARED BY WRIGHT-PIERCE, DATED JANUARY 2014 AND ADDENDUM DATED XXX 6, 2XXX

	2A-2D FM 866 TO E LOOP 338	2A-2D E LOOP 338 TO FM 1208
DIRECTIONAL DISTRIBUTION	52%	52%
PERCENT TRUCKS OF DHV	23.9%	24.5%
K FACTOR	9.1%	9.1%

LEGEND:

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- EXPLORED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- ONEMILESTONE — ALIGNMENT NAME
- ONEMILEIN_1 — CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (CSA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (BY PERMIT)
- 1BR-F100W — PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PHOTO SEPTEMBER 16, 2017.
2. EXISTING TOPOGRAPHY SHOWN WAS PRODUCED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 16, 2018.
3. EXISTING RIGHT-OF-WAY SHOWN WAS DEVELOPED FROM RECORDS OF THE RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE POL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS WERE BASED UPON FEMA FLOOD INSURANCE RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, TEXAS (SEPTEMBER 16, 2016).
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JULY, 2016)

BEGIN PROJECT
IH 20 STA 1000+00.00
IH 20 CSJ: 0005-15-XXX

PROJECT LOCATION MAP
NTS

ROLL: 2 OF 12

SHEET INDEX:

0001 TITLE SHEET
0002 TYPICAL SECTIONS
0003 TYPICAL SECTIONS
0004 TYPICAL SECTIONS
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0011 TYPICAL SECTIONS
0012 TYPICAL SECTIONS
0013 TYPICAL SECTIONS
0014 TYPICAL SECTIONS

TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349
CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	55 MPH	URBAN PRIMARY
FREEWAY	55 MPH	URBAN PRIMARY ARTERIAL
FRONTAGE ROADS	35 MPH	URBAN PRIMARY ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREETS
RAMPS	45 MPH	URBAN PRIMARY ARTERIAL
FM1215, FM 307	45 MPH	MINOR ARTERIAL
FM 1208	55 MPH	RURAL MINOR ARTERIAL
FM 1208	55 MPH	RURAL MINOR COLLECTOR

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC STUDIES PERFORMED BY HOUSTON-GALVESTON AREA COUNCIL DATED XXX XX, 20XX

	2040 AD	2040 AD
	FM 866 TO E LOOP 338	E LOOP 338 TO FM 1208
DIRECTIONAL DISTRIBUTION	52%	52%
PERCENT TRUCKS OF DHV	23.9%	24.5%
K FACTOR	9.1%	9.1%

LEGEND:

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- EXCPLAIED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- IH0020EBSE ALIGNMENT NAME
- IH0020:0.1 CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (COA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (OF-PCNAT)
- 180-F100W PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PARTS SURVEY OF AERIAL IMAGERY.
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2018.
3. EXISTING RIGHT-OF-WAY SHOWN WAS DEVELOPED FROM TEXAS DEPARTMENT OF RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE POL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS SECTOR COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. PRELIMINARY STRUCTURE LIMITS SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, TEXAS FEASIBILITY STUDIES.
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JULY, 2018)

PROJECT LOCATION MAP
NTS

ROLL: 3 OF 12

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SHEET 1 - DESIGN SHEET (PROPOSED ALIGNMENTS)
SHEET 2 - DESIGN SHEET (PROPOSED ALIGNMENTS)
SHEET 3 - DESIGN SHEET (PROPOSED ALIGNMENTS)
SHEET 4 - DESIGN SHEET (PROPOSED ALIGNMENTS)
SHEET 5 - DESIGN SHEET (PROPOSED ALIGNMENTS)
SHEET 6 - DESIGN SHEET (PROPOSED ALIGNMENTS)
SHEET 7 - DESIGN SHEET (PROPOSED ALIGNMENTS)
SHEET 8 - DESIGN SHEET (PROPOSED ALIGNMENTS)
SHEET 9 - DESIGN SHEET (PROPOSED ALIGNMENTS)
SHEET 10 - DESIGN SHEET (PROPOSED ALIGNMENTS)
SHEET 11 - DESIGN SHEET (PROPOSED ALIGNMENTS)
SHEET 12 - DESIGN SHEET (PROPOSED ALIGNMENTS)

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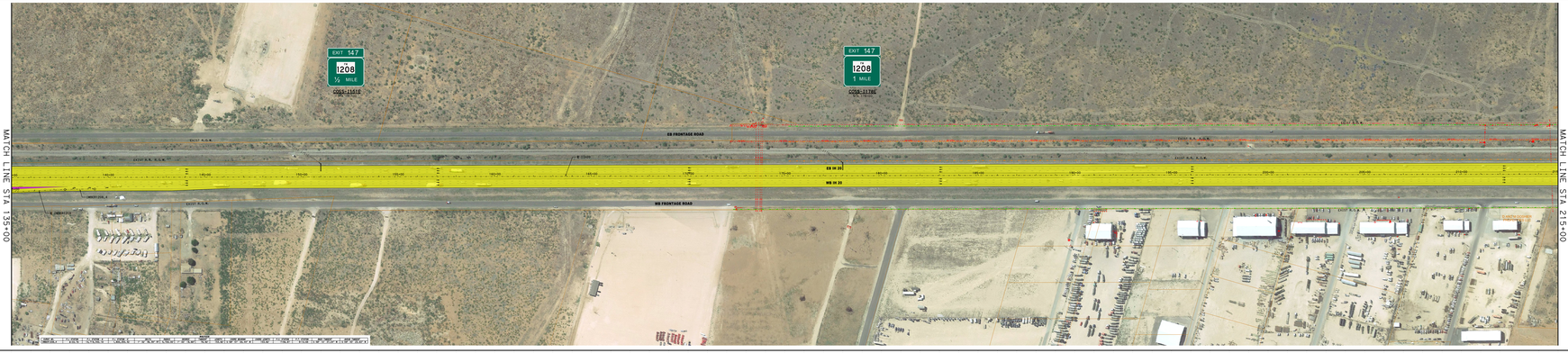

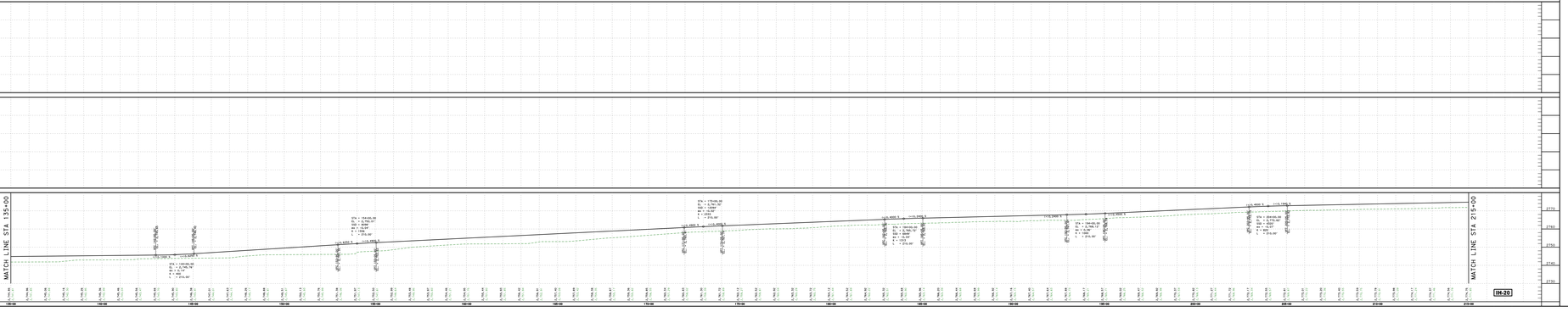

TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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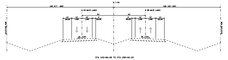
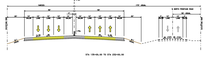
PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349
CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	55 MPH	URBAN PRIMARY
FREEWAY	55 MPH	URBAN PRIMARY ARTERIAL
FRONTAGE ROADS	35 MPH	URBAN PRIMARY ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREETS
RAMPS	45 MPH	URBAN PRIMARY ARTERIAL
FM1215, FM 307	45 MPH	MINOR ARTERIAL
FM 1208	55 MPH	RURAL MINOR ARTERIAL
FM 1208	55 MPH	RURAL MINOR COLLECTOR



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTIONS

ROLL: 3 OF 12

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PRELIMINARY FOR DESIGN REVIEW ONLY

TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349
CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	75 MPH	URBAN PRIMARY
FREEWAY	55 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	35 MPH	URBAN LOCAL STREETS
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREETS
FM1208	45 MPH	URBAN PRINCIPAL ARTERIAL
FM775, FM 307	45 MPH	MINOR ARTERIAL
SH349	45 MPH	URBAN PRINCIPAL ARTERIAL
FM 1788	55 MPH	RURAL MINOR COLLECTOR

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS PERFORMED BY PSAT, PROVIDED BY JACOBS, DATED XXX 9, 2020

	2040 AD FM 866 TO E LOOP 338	2040 AD E LOOP 338 TO FM 1208
DIRECTIONAL DISTRIBUTION	52%	52%
PERCENT TRUCKS OF DHV	23.9%	24.5%
K FACTOR	9.1%	9.1%

LEGEND:

GENERAL PURPOSE LANES (GP LANES)
RAMPS
FRONTAGE ROAD/CROSS STREETS
PROPOSED RAMP GORE AREA
PRELIMINARY STRUCTURE LIMITS
PROPOSED BY OTHERS
DISPLACED STRUCTURE
DRIVEWAY
SIDEWALK
100 YR FLOODPLAIN
DIRECTION OF TRAFFIC
ALIGNMENT NAME
CURVE NO. LABEL
PROPOSED RETAINING WALL
METAL BEAM GUARD FENCE
MAJOR KNOWN UTILITY
EXISTING RIGHT-OF-WAY (R.O.W.)
EXISTING CONTROL-OF-ACCESS (COA)
PROPOSED RIGHT-OF-WAY (R.O.W.)
PROPOSED CONTROL-OF-ACCESS (OF PCPNET)
PROPOSED SIGN NUMBER
EXISTING PAVEMENT REMOVAL
RIGHT-OF-WAY TAKE AREA
PROPOSED DRAINAGE
PROPOSED DRAINAGE EASEMENT
EXISTING DRAINAGE
EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PARTS SUPPLY OF ARTRAL (UNKNOWN).
2. EXISTING TOPOGRAPHY WAS WAS PROVIDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2018.
3. EXISTING RIGHT-OF-WAY WAS WAS PROVIDED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015 AND TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. ROADWAY ALIGNMENTS WERE SHOWN IN SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, TEXAS (SEPTEMBER 16, 2020).
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JUL7, 2018)

BEGIN PROJECT
BP 20 STA 215+00
BP 20 LAT 32.0000-111.XXX

PROJECT LOCATION MAP
NTS

ROLL: 4 OF 12

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SHEET 1 - IH 20 AND PROJECT PROPERTY MAP FROM STA 215+00 TO STA 1000+00
SHEET 2 - IH 20 AND PROJECT PROPERTY MAP FROM STA 215+00 TO STA 1000+00
SHEET 3 - IH 20 AND PROJECT PROPERTY MAP FROM STA 215+00 TO STA 1000+00
SHEET 4 - IH 20 AND PROJECT PROPERTY MAP FROM STA 215+00 TO STA 1000+00

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PRELIMINARY FOR DESIGN REVIEW ONLY
THIS DOCUMENT IS ONLY VALID WHEN SIGNED AND SEALED BY THE ENGINEER IN CHARGE. THE ENGINEER IN CHARGE IS RESPONSIBLE FOR THE CONTENTS OF THIS DOCUMENT.
DESIGN ENGINEER: JOHN R. SPEED, P.E. DATE: 10/20/2020
PE NUMBER: 00000
PROJECT MANAGER: DATE: 10/20/2020
PROJECT NO. 0.0 DATE: 10/20/2020
DRAWN BY: DATE: 10/20/2020

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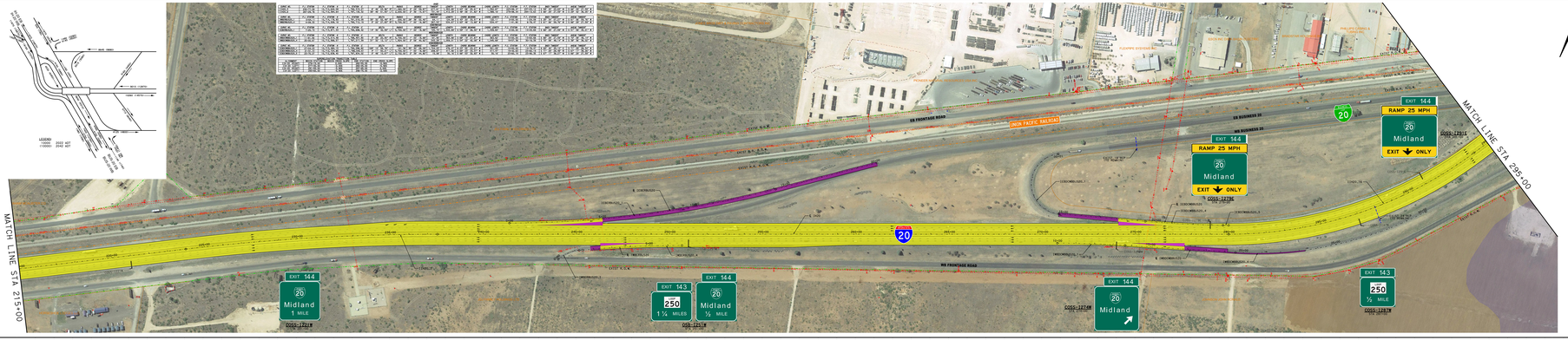
MATCH LINE STA 215+00
MATCH LINE STA 295+00
EB FRONTAGE ROAD
WB FRONTAGE ROAD
UNION PACIFIC RAILROAD
EB BUSINESS 20
WB BUSINESS 20
EXIT 144
RAMP 25 MPH
20
Midland
EXIT ONLY
EXIT 143
250
½ MILE
EXIT 144
250
1 ¼ MILES
EXIT 144
20
Midland
½ MILE
EXIT 144
20
Midland
EXIT 144
20
Midland
EXIT ONLY
EXIT 143
250
½ MILE
COOS-1281E
COOS-1281W
COOS-1281M
COOS-1281N
COOS-1281P
COOS-1281R
COOS-1281S
COOS-1281T
COOS-1281U
COOS-1281V
COOS-1281W
COOS-1281X
COOS-1281Y
COOS-1281Z
COOS-1282A
COOS-1282B
COOS-1282C
COOS-1282D
COOS-1282E
COOS-1282F
COOS-1282G
COOS-1282H
COOS-1282I
COOS-1282J
COOS-1282K
COOS-1282L
COOS-1282M
COOS-1282N
COOS-1282O
COOS-1282P
COOS-1282Q
COOS-1282R
COOS-1282S
COOS-1282T
COOS-1282U
COOS-1282V
COOS-1282W
COOS-1282X
COOS-1282Y
COOS-1282Z
COOS-1283A
COOS-1283B
COOS-1283C
COOS-1283D
COOS-1283E
COOS-1283F
COOS-1283G
COOS-1283H
COOS-1283I
COOS-1283J
COOS-1283K
COOS-1283L
COOS-1283M
COOS-1283N
COOS-1283O
COOS-1283P
COOS-1283Q
COOS-1283R
COOS-1283S
COOS-1283T
COOS-1283U
COOS-1283V
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COOS-1283X
COOS-1283Y
COOS-1283Z
COOS-1284A
COOS-1284B
COOS-1284C
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COOS-1284G
COOS-1284H
COOS-1284I
COOS-1284J
COOS-1284K
COOS-1284L
COOS-1284M
COOS-1284N
COOS-1284O
COOS-1284P
COOS-1284Q

TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349

CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	70 MPH	URBAN FREEWAY
RAMPS	50 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	45 MPH	URBAN MAJOR COLLECTOR
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
SH158	45 MPH	URBAN PRINCIPAL ARTERIAL
FM715, FM 307	45 MPH	MINOR ARTERIAL
LOOP 250 E	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1208	55 MPH	RURAL MINOR COLLECTOR

TRAFFIC DATA

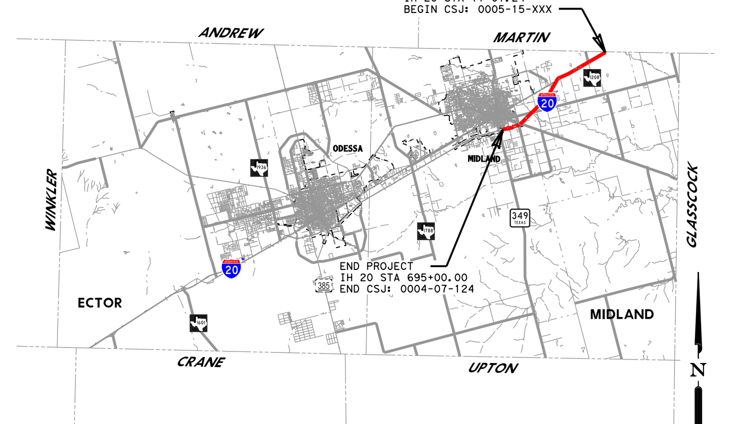
TRAFFIC VOLUMES BASED ON YEAR 2042 PROJECTIONS APPROVED BY TXDOT TP&P DIVISION DATED XXX X, 20XX	IH-20 FM 866 TO E LOOP 338	IH-20 E LOOP 338 TO FM 1208
DIRECTIONAL DISTRIBUTION	52%	52%
PERCENT TRUCKS OF DHV	23.9%	24.5%
K FACTOR	9.1%	9.1%

LEGEND:

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- DISPLACED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- → DIRECTION OF TRAFFIC
- DWBER338E ALIGNMENT NAME
- DWBER338_1 CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (COA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (BY PERMIT)
- OBS-F1029E PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 19, 2017) AND TNRIS (DATE OF AERIAL IMAGERY).
2. EXISTING TOPOGRAPHY SHOWN WAS PROVIDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 10, 2018.
3. EXISTING RIGHT OF WAY SHOWN WAS DEVELOPED FROM EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2017.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS (ECTOR COUNTY, REVISED MARCH 15, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2005).
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, TEXAS (SEPTEMBER 6, 2017).
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JULY, 2018)



PROJECT LOCATION MAP
NTS

ROLL: 5 OF 12

SHEET INDEX:

ROLL 1: PLAN AND PROFILE-FM1208 STA 87+70 TO STA 115+71
ROLL 2: PLAN AND PROFILE-IH 20 BEGIN PROJECT TO STA 135+00
ROLL 3: PLAN AND PROFILE-IH 20 STA 135+00 TO STA 215+00
ROLL 4: PLAN AND PROFILE-IH 20 STA 215+00 TO STA 295+00
ROLL 5: PLAN AND PROFILE-IH 20 STA 295+00 TO STA 375+00
ROLL 6: PLAN AND PROFILE-IH 20 STA 375+00 TO STA 460+00
ROLL 7: PLAN AND PROFILE-IH 20 STA 460+00 TO STA 545+00
ROLL 8: PLAN AND PROFILE-IH 20 STA 545+00 TO STA 625+00
ROLL 9: PLAN AND PROFILE-IH 20 STA 625+00 TO STA 700+00
ROLL 10: PLAN AND PROFILE-IH 20 STA 700+00 TO STA 713+00
ROLL 11: PROFILES-RAMPS, CROSS STREETS AND U-TURNS
ROLL 12: PROFILES-RAMPS, CROSS STREETS AND U-TURNS

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Firm Registration: F-2966

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NAME	P.E. NO.	DATE
WILL BARRESI, P.E.	90856	4/10/2020
GRANT WU, P.E.	89529	4/10/2020

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TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20
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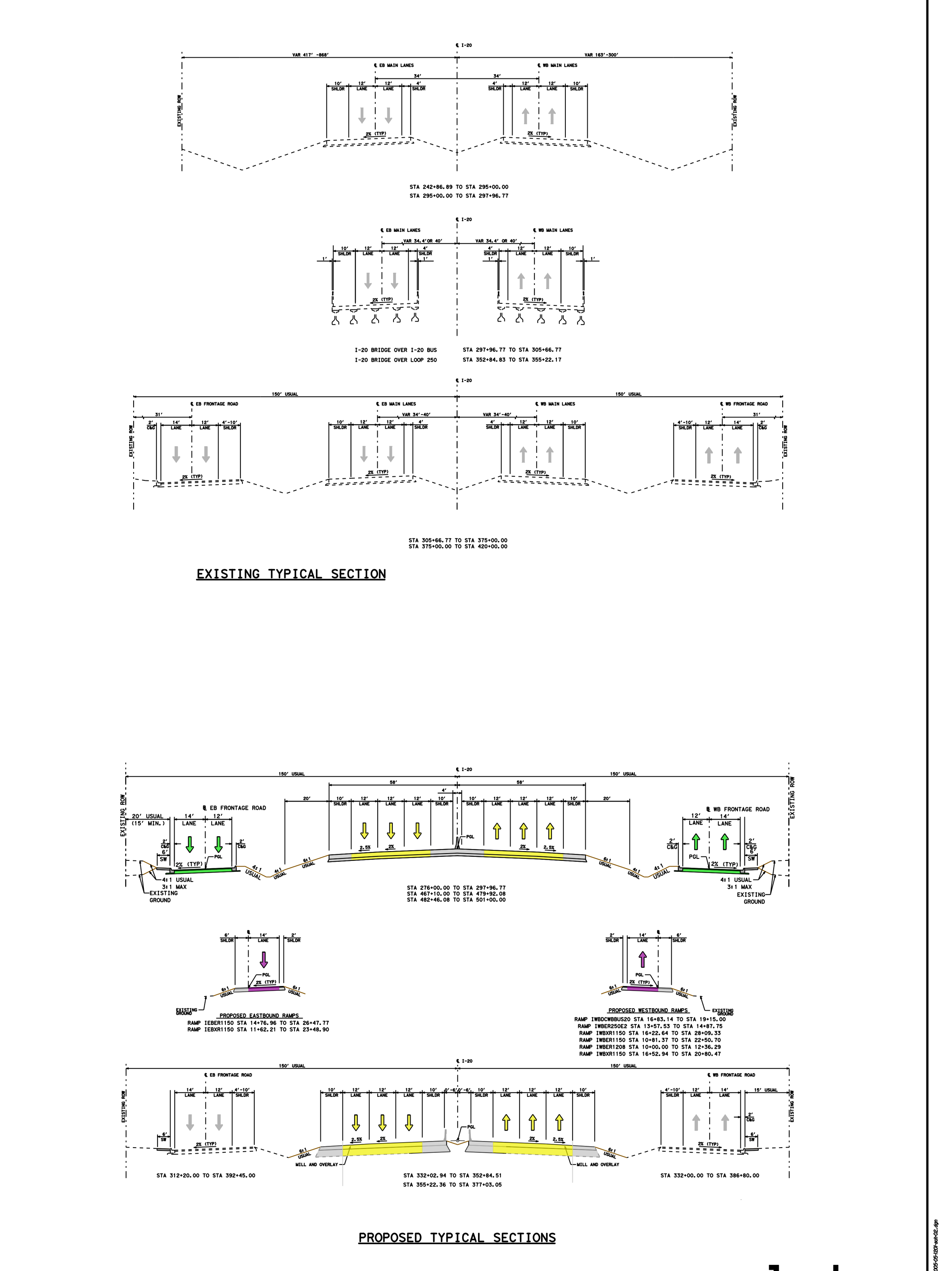

EXISTING TYPICAL SECTION

PROPOSED TYPICAL SECTIONS

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ROLL: 5 OF 12
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TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349
CONTROL: 0005-15-092, 0005-15-093

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ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	65 MPH	URBAN FREEWAY
RAMPS	35 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	35 MPH	URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
IH20	65 MPH	URBAN PRINCIPAL ARTERIAL
FM775, FM 307	45 MPH	MINOR ARTERIAL
SH349	55 MPH	RURAL MINOR ARTERIAL
FM 1208	55 MPH	RURAL MINOR COLLECTOR

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TEXAS DEPARTMENT OF TRANSPORTATION PROJECTION DATED XXX XX, 20XX		
	2045 AADT	2045 AADT
	FM 866 TO E LOOP 338	E LOOP 338 TO FM 1208
DIRECTIONAL DISTRIBUTION	52%	52%
PERCENT TRUCKS OF DHV	23.9%	24.5%
K FACTOR	9.1%	9.1%

LEGEND:

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- EXIPLANED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- ALIGNMENT NAME
- CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (COA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (CP POINT)
- PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PARTS SURVEY OF ANTRAL (JANUARY).
2. EXISTING TOPOGRAPHY WAS PROVIDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2018.
3. EXISTING RIGHT-OF-WAY SHOWN WAS DEVELOPED FROM RECORDS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE POL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. BRIDGE DIMENSIONS SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, BRIDGE INSPECTOR REPORTS.
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JUL7, 2018)

PROJECT LOCATION MAP
NTS

ROLL: 6 OF 12

SHEET INDEX:

SHEET 1 - PLAN AND PROFILE (EB FRONTAGE ROAD STA 275+00 TO STA 375+00)
SHEET 2 - PLAN AND PROFILE (WB FRONTAGE ROAD STA 275+00 TO STA 375+00)
SHEET 3 - PLAN AND PROFILE (IH20 STA 375+00 TO STA 460+00)
SHEET 4 - PLAN AND PROFILE (EB FRONTAGE ROAD STA 375+00 TO STA 460+00)
SHEET 5 - PLAN AND PROFILE (WB FRONTAGE ROAD STA 375+00 TO STA 460+00)
SHEET 6 - PLAN AND PROFILE (IH20 STA 375+00 TO STA 460+00)
SHEET 7 - PLAN AND PROFILE (EB FRONTAGE ROAD STA 460+00 TO STA 575+00)
SHEET 8 - PLAN AND PROFILE (WB FRONTAGE ROAD STA 460+00 TO STA 575+00)
SHEET 9 - PLAN AND PROFILE (IH20 STA 460+00 TO STA 575+00)
SHEET 10 - PLAN AND PROFILE (EB FRONTAGE ROAD STA 575+00 TO STA 675+00)
SHEET 11 - PLAN AND PROFILE (WB FRONTAGE ROAD STA 575+00 TO STA 675+00)
SHEET 12 - PLAN AND PROFILE (IH20 STA 575+00 TO STA 675+00)

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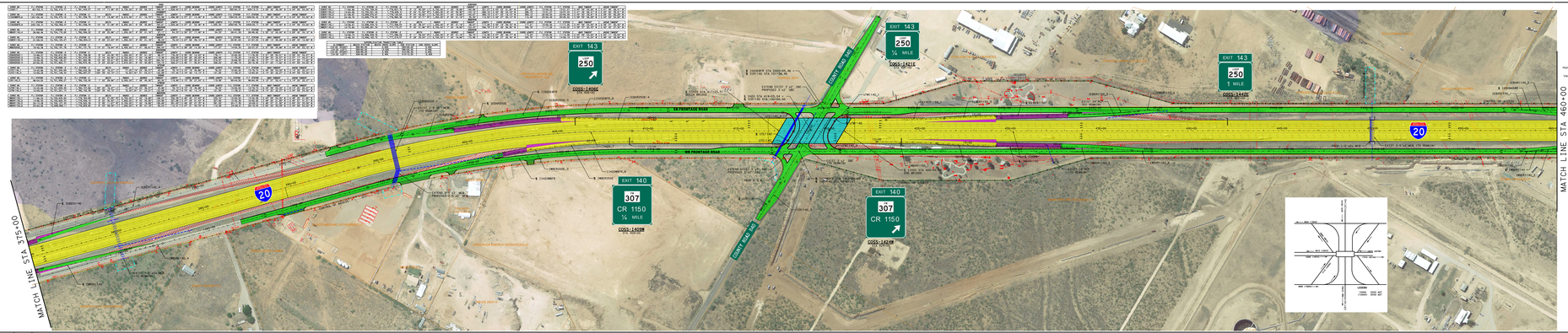
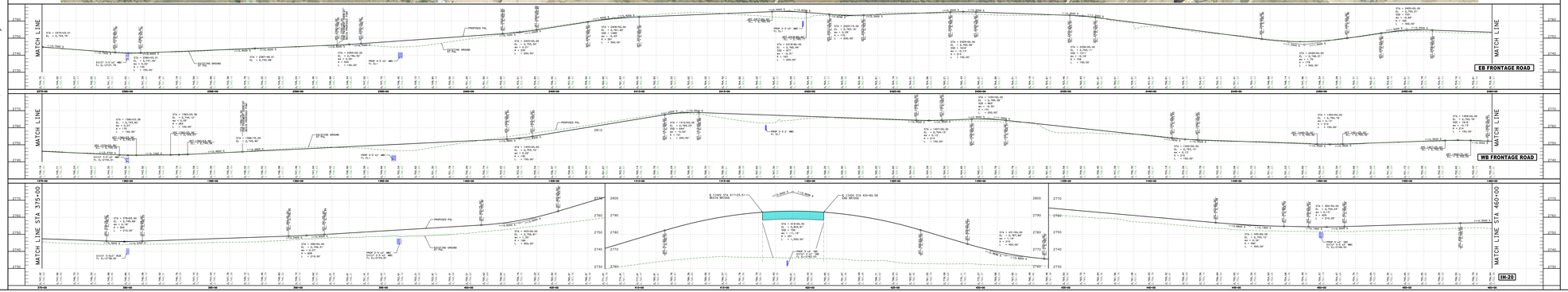


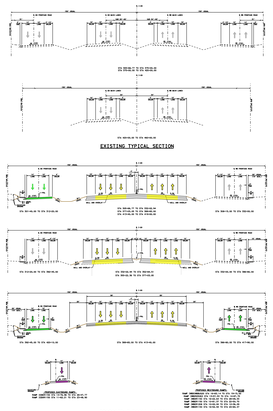


TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349
CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	65 MPH	URBAN FREEWAY
RAMPS	35 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	35 MPH	URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
IH20	65 MPH	URBAN PRINCIPAL ARTERIAL
FM775, FM 307	45 MPH	MINOR ARTERIAL
SH349	55 MPH	RURAL MINOR ARTERIAL
FM 1208	55 MPH	RURAL MINOR COLLECTOR



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ROLL: 6 OF 12

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TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349
CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	75 MPH	URBAN FREEWAY
RAMPS	55 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	45 MPH	URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
SH349	55 MPH	URBAN PRINCIPAL ARTERIAL
FM715, FM 307	45 MPH	MINOR ARTERIAL
FM 1208	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1208	55 MPH	RURAL MINOR COLLECTOR

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC STUDY PERFORMED BY PROGRESSIVE ENGINEERING, INC. DATED XXX FL, 2XXX

	LOC-01 FM 866 TO E LOOP 338	LOC-02 E LOOP 338 TO FM 1208
DIRECTIONAL DISTRIBUTION	52%	52%
PERCENT TRUCKS OF DHV	23.9%	24.5%
K FACTOR	9.1%	9.1%

LEGEND:

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- EXPLORED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- UNDERSTONE / OVERSTONE — ALIGNMENT NAME
- UNDERSTONE / OVERSTONE — CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (CSA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (BY PERMIT)
- UNDERSTONE / OVERSTONE — PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND TAKES SLAKES OF AERIAL IMAGERY.
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2016.
3. EXISTING RIGHT-OF-WAY WAS SHOWN AS DEVELOPED FROM EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE POL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. BRIDGE CONFIGURATION SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, BRIDGE INSPECTIONS.
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JUL7, 2018)

BEGIN PROJECT
20.00 EAST OF FM1208
20.00 EAST OF 0005-15-XXX

END PROJECT
20.00 EAST OF SH349
20.00 EAST OF 0005-15-XXX

PROJECT LOCATION MAP
NTS

ROLL: 7 OF 12

SHEET INDEX:

SHEET 1 - PLAN AND PROFILE (FROM STA 460+00 TO STA 545+00)
SHEET 2 - PLAN AND PROFILE (FROM STA 545+00 TO STA 630+00)
SHEET 3 - PLAN AND PROFILE (FROM STA 630+00 TO STA 715+00)
SHEET 4 - PLAN AND PROFILE (FROM STA 715+00 TO STA 800+00)
SHEET 5 - PLAN AND PROFILE (FROM STA 800+00 TO STA 885+00)
SHEET 6 - PLAN AND PROFILE (FROM STA 885+00 TO STA 970+00)
SHEET 7 - PLAN AND PROFILE (FROM STA 970+00 TO STA 1055+00)
SHEET 8 - PLAN AND PROFILE (FROM STA 1055+00 TO STA 1140+00)
SHEET 9 - PLAN AND PROFILE (FROM STA 1140+00 TO STA 1225+00)

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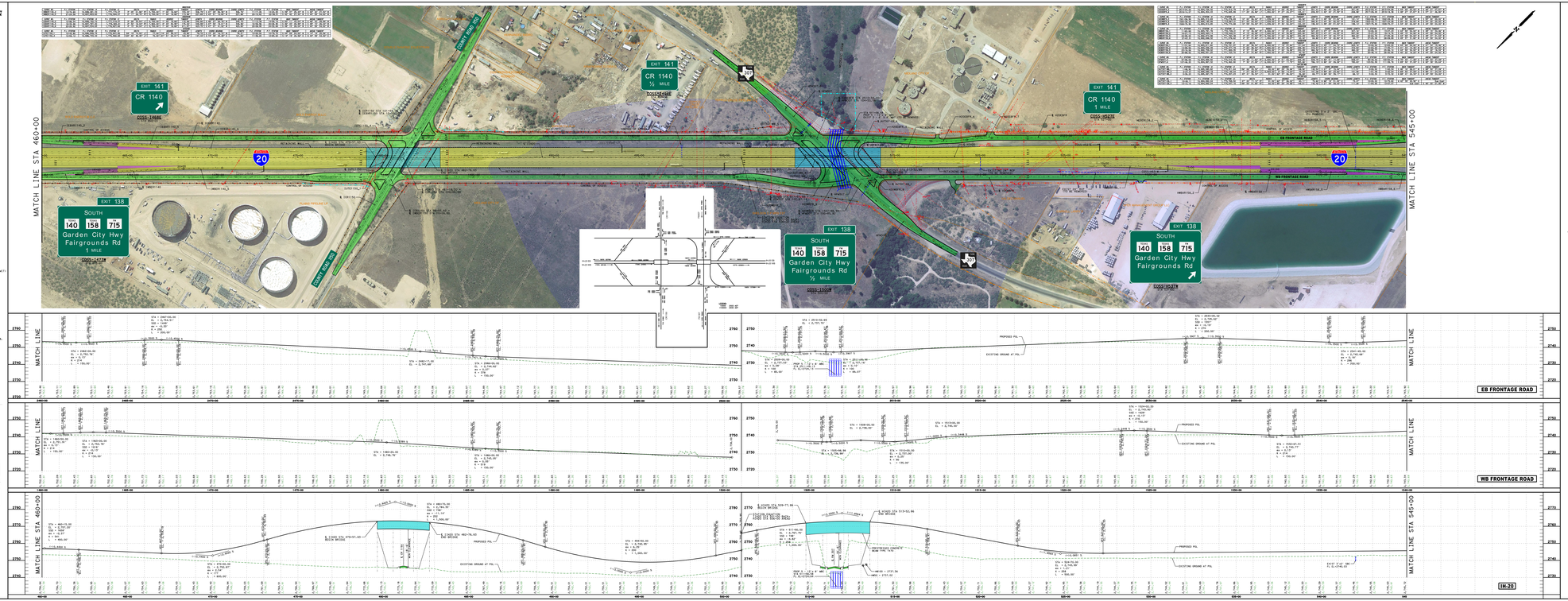

TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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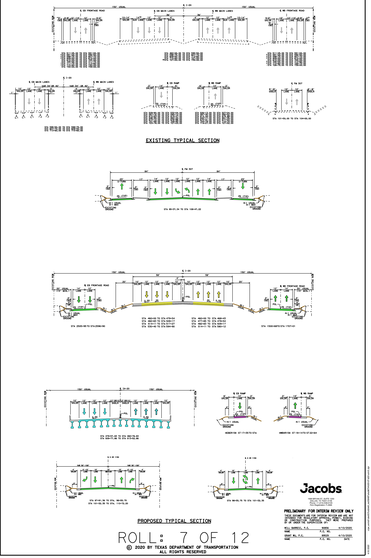
CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	75 MPH	URBAN FREEWAY
RAMPS	55 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	45 MPH	URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
SH349	55 MPH	URBAN PRINCIPAL ARTERIAL
FM715, FM 307	45 MPH	MINOR ARTERIAL
FM 1208	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1208	55 MPH	RURAL MINOR COLLECTOR



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ROLL: 7 OF 12

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TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

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ECTOR/MIDLAND COUNTY
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FRONTAGE ROADS	45 MPH	URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
SH349	55 MPH	URBAN PRINCIPAL ARTERIAL
FM715, FM 307	45 MPH	MINOR ARTERIAL
FM 1208	45 MPH	URBAN PRINCIPAL ARTERIAL
FM 1150	55 MPH	RURAL MINOR COLLECTOR

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC STUDY PERFORMED BY PARSONS BRINCKERHOFF DATED XXX FL, 2XXX

	FM 866 TO E LOOP 338	E LOOP 338 TO FM 1208
DIRECTIONAL DISTRIBUTION	52%	52%
PERCENT TRUCKS OF DHV	23.9%	24.5%
K FACTOR	9.1%	9.1%

LEGEND:

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- EXCAVATED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- SMOOTHLINE — ALIGNMENT NAME
- SMOOTHLINE — CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (COA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (CP POINT)
- 1MX-F150W — PROPOSED SIGN NUMBER
- EXISTING PAVEMENT MARKING
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PARTS SHEETS OF AERIAL IMAGERY.
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2014.
3. EXISTING RIGHT-OF-WAY SHOWN WAS DEVELOPED FROM EXISTING RIGHT-OF-WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUBMITTED DATA FROM CITIES OF MIDLAND AND ODESSA, TEXAS COORDINATED WITH TXDOT.
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JUL7, 2018)

BEGIN PROJECT
BR 20 STA 545+00
END PROJECT
BR 20 STA 625+00

PROJECT LOCATION MAP
NTS

ROLL: 8 OF 12

SHEET INDEX:

SHEET 1 - 0005-15-092 PROJECT NO. 0005-15-093
SHEET 2 - 0005-15-092 PROJECT NO. 0005-15-093
SHEET 3 - 0005-15-092 PROJECT NO. 0005-15-093
SHEET 4 - 0005-15-092 PROJECT NO. 0005-15-093
SHEET 5 - 0005-15-092 PROJECT NO. 0005-15-093
SHEET 6 - 0005-15-092 PROJECT NO. 0005-15-093
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SHEET 8 - 0005-15-092 PROJECT NO. 0005-15-093
SHEET 9 - 0005-15-092 PROJECT NO. 0005-15-093
SHEET 10 - 0005-15-092 PROJECT NO. 0005-15-093
SHEET 11 - 0005-15-092 PROJECT NO. 0005-15-093
SHEET 12 - 0005-15-092 PROJECT NO. 0005-15-093

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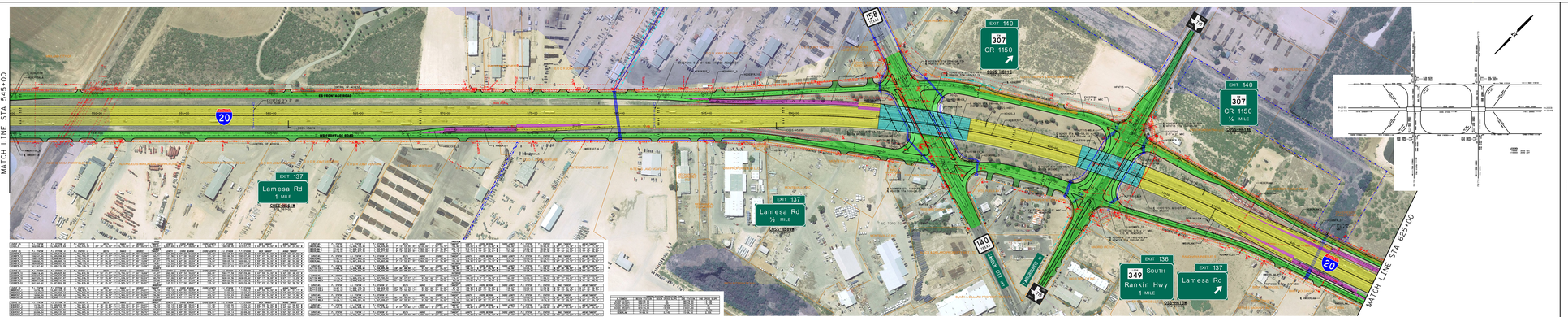
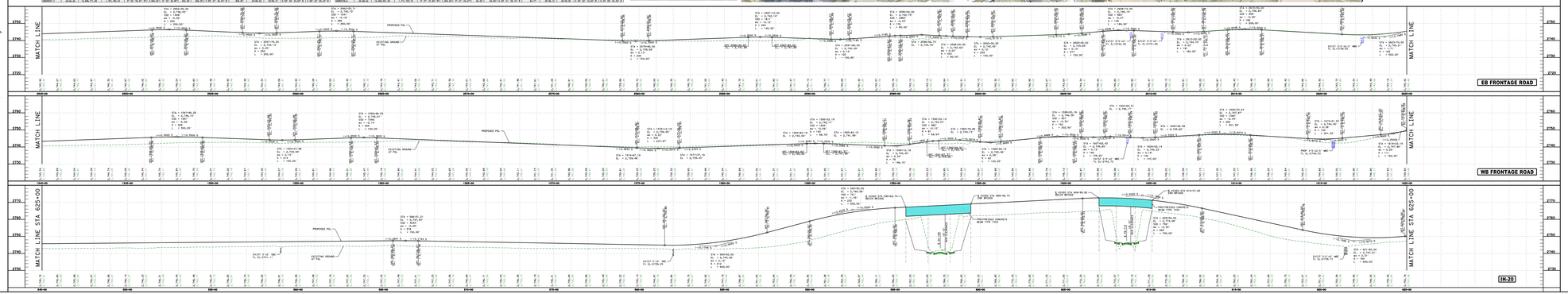




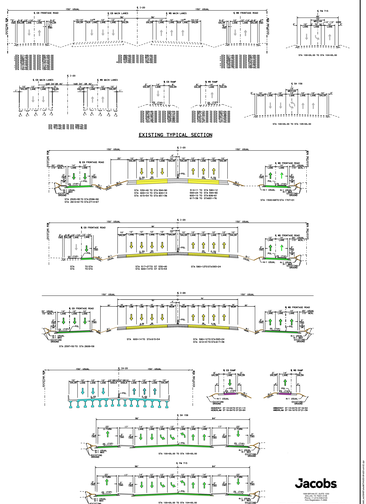
TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349
CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	55 MPH	URBAN FREEWAY
RAMPS	55 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	45 MPH	URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
SH349	55 MPH	URBAN PRINCIPAL ARTERIAL
FM715, FM 307	45 MPH	MINOR ARTERIAL
FM 1208	45 MPH	URBAN PRINCIPAL ARTERIAL
FM 1150	55 MPH	RURAL MINOR COLLECTOR



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ROLL: 8 OF 12

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TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349
CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	65 MPH	URBAN PRIMARY
RAMPS	55 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	55 MPH	URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
DRIVE	35 MPH	URBAN PRINCIPAL ARTERIAL
FM375, FM 307	65 MPH	MINOR ARTERIAL
FM 1208	55 MPH	URBAN PRINCIPAL ARTERIAL
SH 349	65 MPH	RURAL MINOR COLLECTOR

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC STUDY PREPARED BY PARSONS DATED JULY 2020 AND TRAFFIC STUDY PREPARED BY HALFF DATED XXX 6, 2020	FM 866 TO E LOOP 338	E LOOP 338 TO FM 1208
AADT	24,00	30,00
DIRECTIONAL DISTRIBUTION	52%	52%
PERCENT TRUCKS OF DHV	23.9%	24.5%
K FACTOR	9.1%	9.1%

LEGEND:

GENERAL PURPOSE LANES (GP LANES)
RAMPS
FRONTAGE ROAD/CROSS STREETS
PROPOSED RAMP GORE AREA
PRELIMINARY STRUCTURE LIMITS
PROPOSED BY OTHERS
EXAMPLE STRUCTURE
DRIVEWAY
SIDEWALK
100 YR FLOODPLAIN

DIRECTION OF TRAFFIC
ALIGNMENT NAME
CURVE NO. LABEL
PROPOSED RETAINING WALL
METAL BEAM GUARD FENCE
MAJOR KNOWN UTILITY
EXISTING RIGHT-OF-WAY (R.O.W.)
EXISTING CONTROL-OF-ACCESS (CSA)
PROPOSED RIGHT-OF-WAY (R.O.W.)
PROPOSED CONTROL-OF-ACCESS (BY PERMIT)
PROPOSED SIGN NUMBER
EXISTING PAVEMENT REMOVAL
RIGHT-OF-WAY TAKE AREA
PROPOSED DRAINAGE
PROPOSED DRAINAGE EASEMENT
EXISTING DRAINAGE
EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PARCEL MAPS OF ANTHAL OWNERSHIP.
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM AERIALS PROVIDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2016.
3. EXISTING RIGHT-OF-WAY WAS SHOWN AS DEVELOPED FROM THE EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE POL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE DATA WITH SECTION COUNTY, REVISED MARCH 15, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUPPLIED DRAWINGS FROM CITIES OF MIDLAND AND ODESSA, TEXAS.
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JUL7, 2018)

DESIGN PROJECT
SH 349 STA 1000+00
EB IH 20 STA 1000+00
WB IH 20 STA 1000+00

PROJECT LOCATION MAP
NTS

ROLL: 9 OF 12

SHEET INDEX:

001 - 0005-15-092 PROJECT LOCATION, STA 625+00 TO 1000+00
002 - 0005-15-092 SHEET 1 OF 3 STA 625+00 TO 700+00
003 - 0005-15-092 SHEET 2 OF 3 STA 700+00 TO 800+00
004 - 0005-15-092 SHEET 3 OF 3 STA 800+00 TO 1000+00

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TBPE Firm No. F-2447

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Dsgn	DARRIN A.	10/15/2020
Chkd	JOHN R.	10/15/2020
Sup'd	JOHN R.	10/15/2020
Mgr	JOHN R.	10/15/2020

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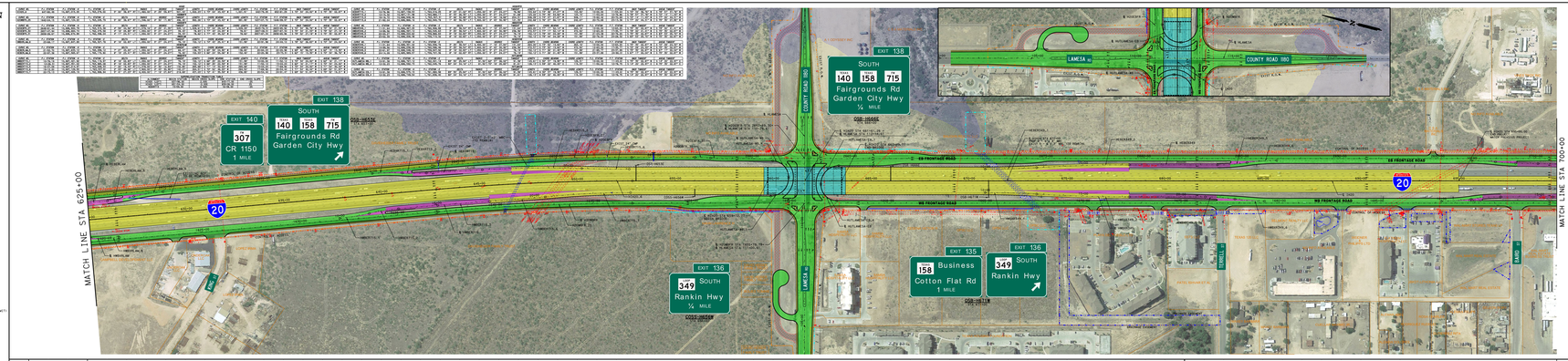

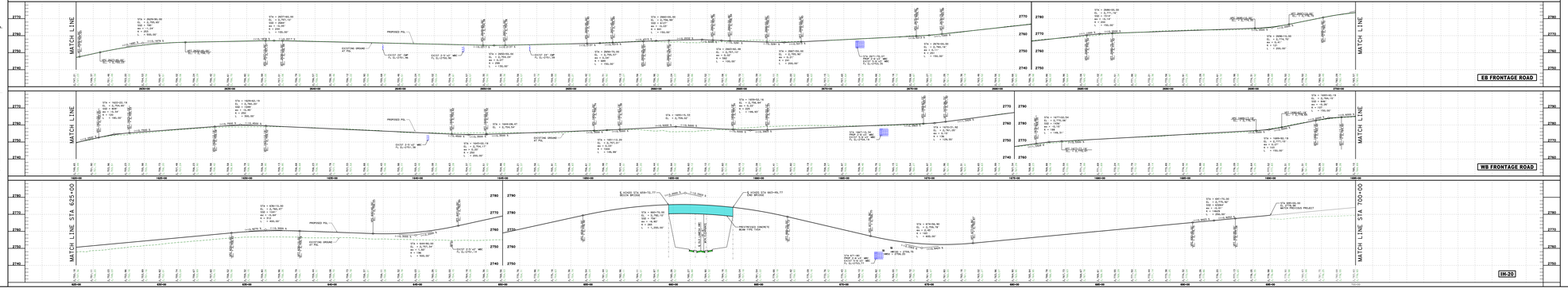

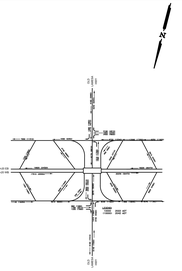

TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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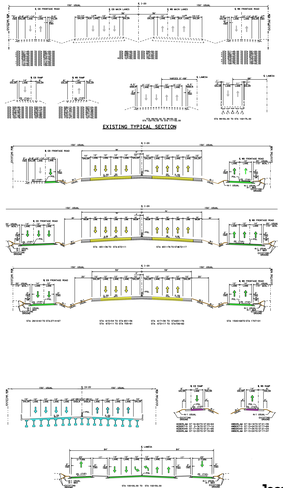
PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349
CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	65 MPH	URBAN PRIMARY
RAMPS	55 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	55 MPH	URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
DRIVE	35 MPH	URBAN PRINCIPAL ARTERIAL
FM375, FM 307	65 MPH	MINOR ARTERIAL
FM 1208	55 MPH	URBAN PRINCIPAL ARTERIAL
SH 349	65 MPH	RURAL MINOR COLLECTOR



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Houston, Texas 77077-7848
TBPE Firm No. F-2447

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Dsgn	DARRIN A.	10/15/2020
Chkd	JOHN R.	10/15/2020
Sup'd	JOHN R.	10/15/2020
Mgr	JOHN R.	10/15/2020

ROLL: 9 OF 12

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TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349

CONTROL: 0005-15-092, 0005-15-093

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	70 MPH	URBAN FREEWAY
RAMPS	50 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	45 MPH	URBAN MAJOR COLLECTOR
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
SH158	45 MPH	URBAN PRINCIPAL ARTERIAL
FM715, FM 307	45 MPH	MINOR ARTERIAL
LOOP 250 E	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1208	55 MPH	RURAL MINOR COLLECTOR

TRAFFIC DATA

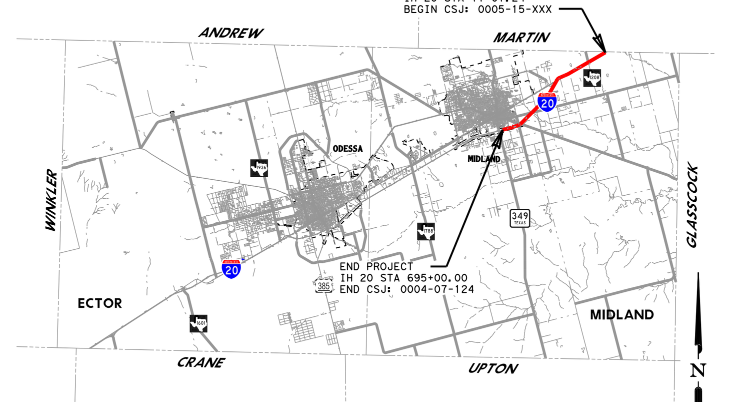
TRAFFIC VOLUMES BASED ON YEAR 2042 PROJECTIONS APPROVED BY TXDOT TP&P DIVISION DATED XXX X, 20XX	IH-20 FM 866 TO E LOOP 338	IH-20 E LOOP 338 TO FM 1208
DIRECTIONAL DISTRIBUTION	52%	52%
PERCENT TRUCKS OF DHV	23.9%	24.5%
K FACTOR	9.1%	9.1%

LEGEND:

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- DISPLACED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- → DIRECTION OF TRAFFIC
- DWBER338E ALIGNMENT NAME
- DWBER338_1 CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- E1(D) MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (COA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (BY PERMIT)
- OBS-F1029E PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 19, 2017) AND TNRIS (DATE OF AERIAL IMAGERY).
2. EXISTING TOPOGRAPHY SHOWN WAS PROVIDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 10, 2018.
3. EXISTING RIGHT OF WAY SHOWN WAS DEVELOPED FROM EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2017.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS (ECTOR COUNTY, REVISED MARCH 15, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2005).
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, TEXAS (SEPTEMBER 6, 2017).
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JULY, 2018)



PROJECT LOCATION MAP
NTS

ROLL: 10 OF 12

SHEET INDEX:

ROLL 1: PLAN AND PROFILE-FM1208 STA 87+70 TO STA 115+71
ROLL 2: PLAN AND PROFILE-IH 20 BEGIN PROJECT TO STA 135+00
ROLL 3: PLAN AND PROFILE-IH 20 STA 135+00 TO STA 215+00
ROLL 4: PLAN AND PROFILE-IH 20 STA 215+00 TO STA 295+00
ROLL 5: PLAN AND PROFILE-IH 20 STA 295+00 TO STA 375+00
ROLL 6: PLAN AND PROFILE-IH 20 STA 375+00 TO STA 460+00
ROLL 7: PLAN AND PROFILE-IH 20 STA 460+00 TO STA 545+00
ROLL 8: PLAN AND PROFILE-IH 20 STA 545+00 TO STA 625+00
ROLL 9: PLAN AND PROFILE-IH 20 STA 625+00 TO STA 700+00
ROLL 10: PLAN AND PROFILE-IH 20 STA 700+00 TO STA 713+00
ROLL 11: PROFILES-RAMPS, CROSS STREETS AND U-TURNS
ROLL 12: PROFILES-RAMPS, CROSS STREETS AND U-TURNS

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NAME	P.E. NO.	DATE
WILL BARRESI, P.E.	90856	4/10/2020
GRANT WU, P.E.	89529	4/10/2020

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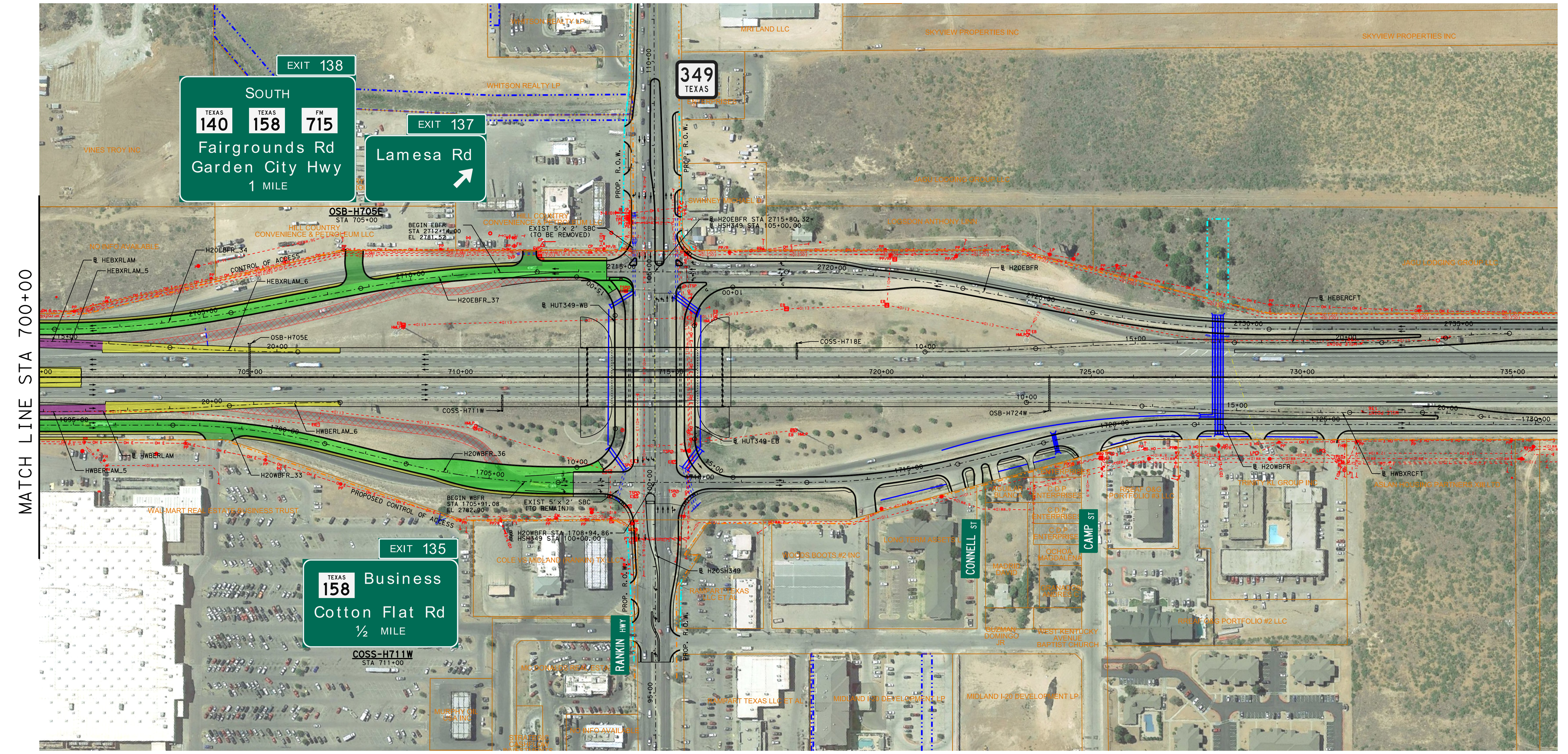
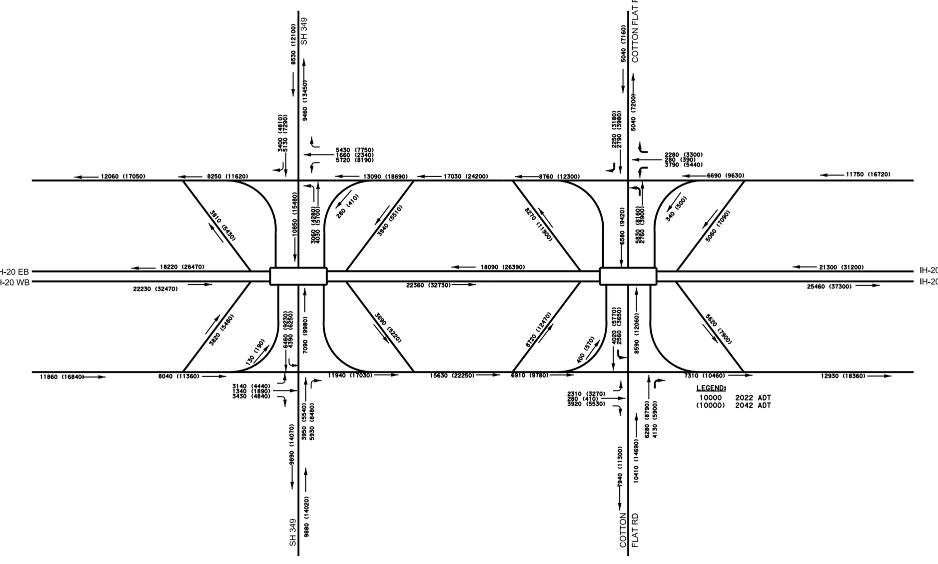
4/10/2020

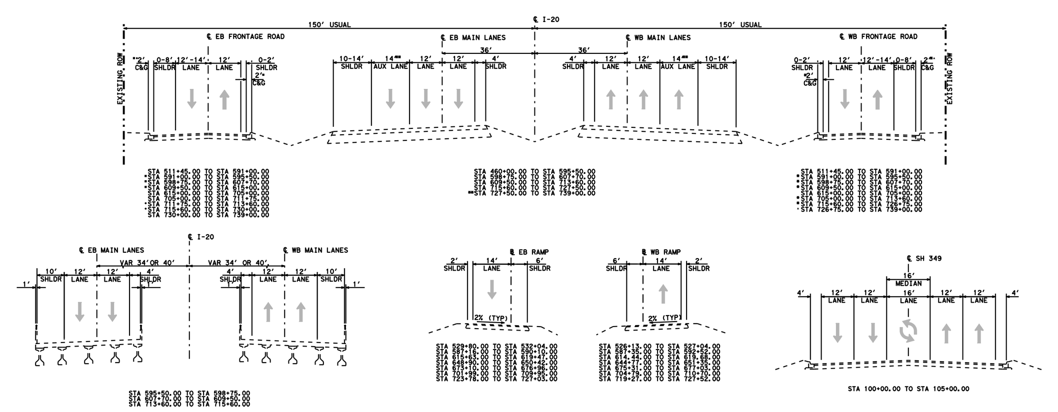
MATCH LINE STA 700+00



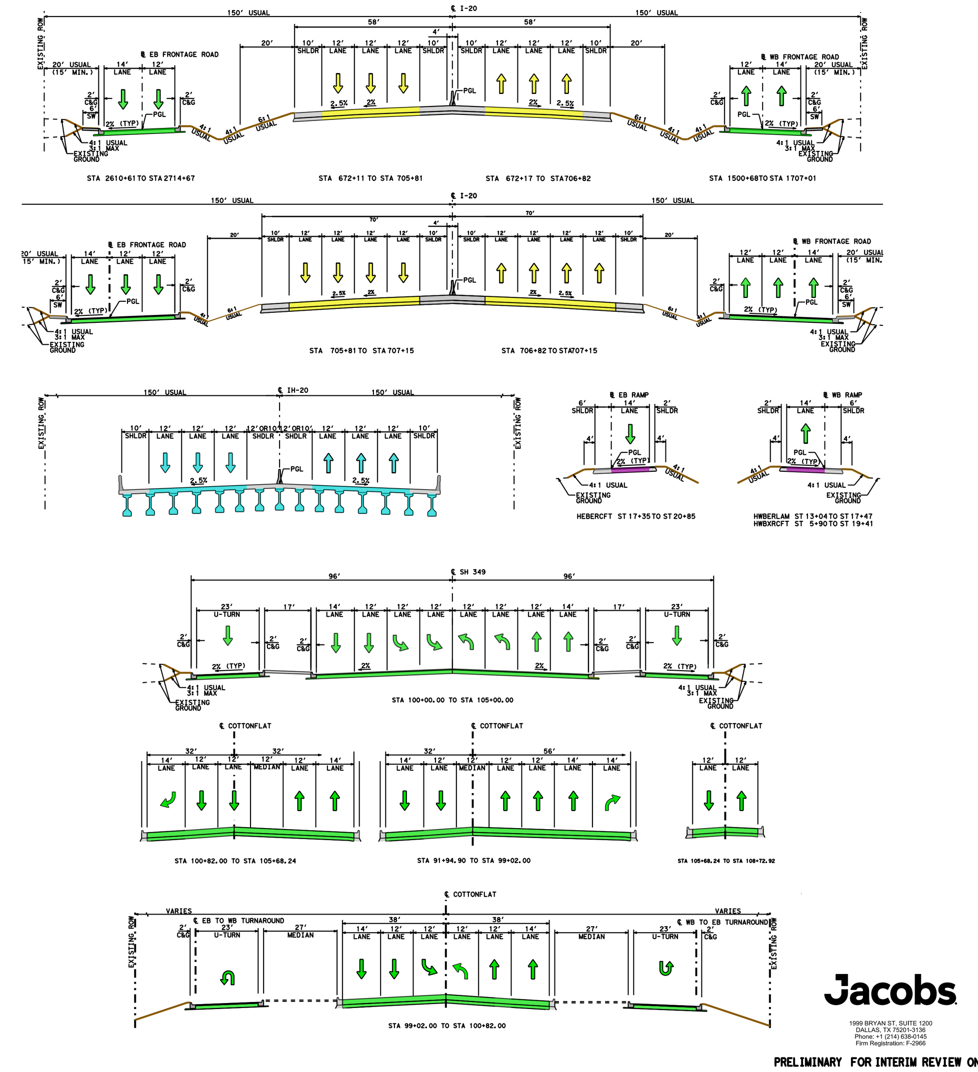
CURVE NO.	P.I. STATION	P.I. STATION - N	P.I. STATION - E	DELTA	RADIUS	DEGREE	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION	BACK TANGENT	AHEAD TANGENT
H20WBFR														
H20WBFR_33	1699+19.43	10,685,701.19	1,757,709.81	13° 55′ 22.23" RT	1,500.00′	3° 49′ 10.99"	183.15′	364.50′	S 82° 32′ 43.98" W	363.60′	1697+36.28	1701+00.78	S 75° 35′ 02.87" W	S 89° 30′ 25.10" W
H20WBFR_36	1704+83.16	10,685,696.32	1,757,144.30	13° 56′ 00.03" LT	1,500.00′	3° 49′ 10.99"	183.29′	364.77′	S 82° 32′ 25.08" W	363.88′	1702+99.87	1706+64.64	S 89° 30′ 25.10" W	S 75° 34′ 25.07" W
H20EBFR														
H20EBFR_34	2703+55.81	10,685,543.32	1,758,011.47	10° 38′ 20.53" LT	2,270.00′	2° 31′ 26.56"	211.36′	421.51′	S 70° 15′ 52.60" W	420.90′	2701+44.45	2705+65.95	S 75° 35′ 02.87" W	S 64° 56′ 42.34" W
H20EBFR_37	2710+91.24	10,685,231.36	1,757,344.14	10° 38′ 20.53" RT	2,270.00′	2° 31′ 26.56"	211.36′	421.51′	S 70° 15′ 52.60" W	420.90′	2708+79.87	2713+01.38	S 64° 56′ 42.34" W	S 75° 35′ 02.87" W
HWBERLAM														
HWBERLAM_5	18+05.78	10,685,741.09	1,757,993.58	3° 25′ 38.54" LT	7,900.00′	0° 43′ 30.95"	236.36′	472.57′	S 73° 52′ 13.60" W	472.50′	15+69.42	20+41.99	S 75° 35′ 02.87" W	S 72° 09′ 24.33" W
HWBERLAM_6	21+73.63	10,685,628.33	1,757,643.28	3° 25′ 38.54" RT	4,400.00′	1° 18′ 07.84"	131.64′	263.20′	S 73° 52′ 13.60" W	263.16′	20+41.99	23+05.20	S 72° 09′ 24.33" W	S 75° 35′ 02.87" W
HEBXRLAM														
HEBXRLAM_5	15+42.18	10,685,606.78	1,758,140.13	2° 57′ 09.57" RT	7,900.00′	0° 43′ 30.95"	203.60′	407.12′	S 78° 04′ 05.47" W	407.07′	13+38.58	17+45.69	S 76° 35′ 30.69" W	S 79° 32′ 40.25" W
HEBXRLAM_6	18+97.82	10,685,542.22	1,757,790.30	3° 57′ 37.39" LT	4,400.00′	1° 18′ 07.84"	152.13′	304.14′	S 77° 33′ 51.56" W	304.08′	17+45.69	20+49.83	S 79° 32′ 40.25" W	S 75° 35′ 02.87" W



TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20
PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349
CONTROL: 0005-15-092, 0005-15-093
PROJECT LENGTH = 11.70 MILES (61,792.8 FT)



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

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ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-14-084, 0005-067, 0005-14-086 , 0005-13-060, 0005-14-087

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	55 MPH	URBAN FREEWAY
RAMPS	55 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	55 MPH	URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREETS
DARTS	45 MPH	URBAN PRINCIPAL ARTERIAL
FM715, FM 307	45 MPH	MINOR ARTERIAL
W LOOP 250	55 MPH	URBAN PRINCIPAL ARTERIAL

PROJECT LOCATION MAP
NTS

ROLL: 11 OF 12

SHEET INDEX

SHEET 1 - IH 20 FROM FM 1208 TO EAST OF SH 349
SHEET 2 - IH 20 FM 1208 TO EAST OF SH 349
SHEET 3 - IH 20 FM 1208 TO EAST OF SH 349
SHEET 4 - IH 20 FM 1208 TO EAST OF SH 349
SHEET 5 - IH 20 FM 1208 TO EAST OF SH 349
SHEET 6 - IH 20 FM 1208 TO EAST OF SH 349
SHEET 7 - IH 20 FM 1208 TO EAST OF SH 349
SHEET 8 - IH 20 FM 1208 TO EAST OF SH 349
SHEET 9 - IH 20 FM 1208 TO EAST OF SH 349
SHEET 10 - IH 20 FM 1208 TO EAST OF SH 349
SHEET 11 - IH 20 FM 1208 TO EAST OF SH 349
SHEET 12 - IH 20 FM 1208 TO EAST OF SH 349

Horizontal: 1"=100'
Vertical: 1"=10'

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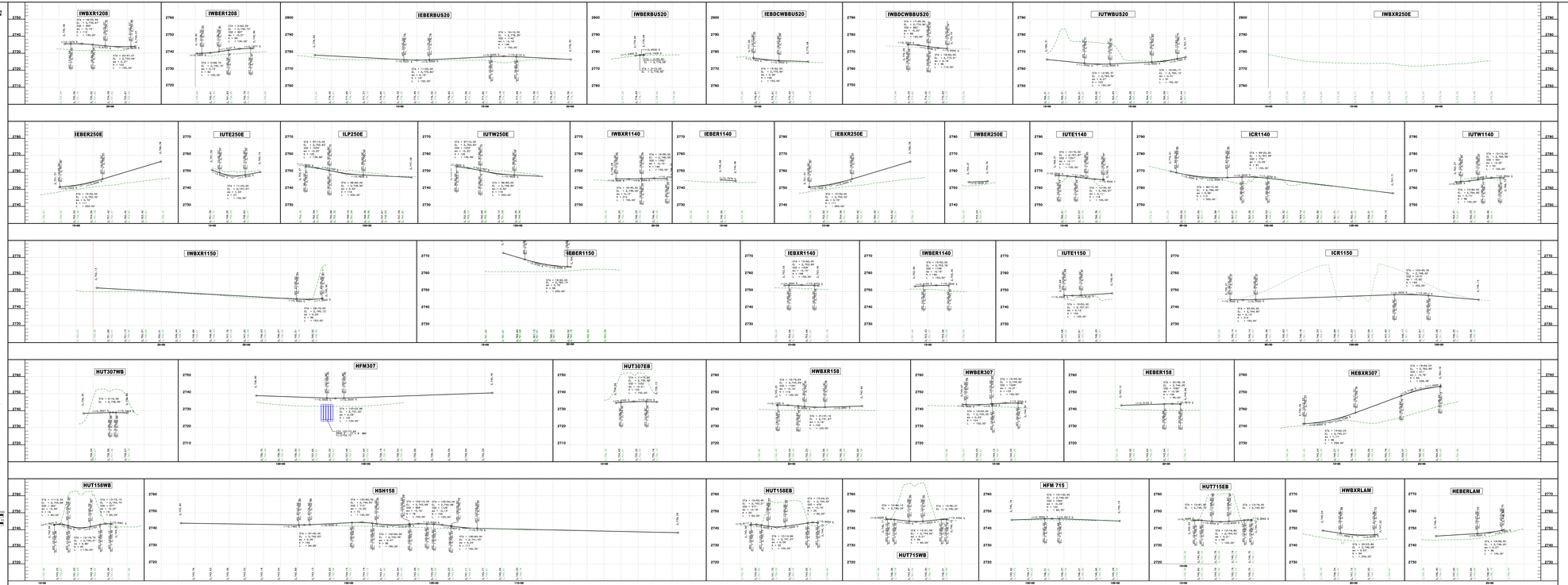

TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-14-084, 0005-067, 0005-14-086 , 0005-13-060, 0005-14-087

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	55 MPH	URBAN FREEWAY
RAMPS	55 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	55 MPH	URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREETS
DARTS	45 MPH	URBAN PRINCIPAL ARTERIAL
FM715, FM 307	45 MPH	MINOR ARTERIAL
W LOOP 250	55 MPH	URBAN PRINCIPAL ARTERIAL

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TEXAS DEPARTMENT OF TRANSPORTATION
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PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349

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0004-07-128, 0005-14-084, 0005-067,
0005-14-086 , 0005-13-060, 0005-14-087

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	55 MPH	URBAN FREEWAY
RAMPS	55 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	55 MPH	URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREETS
DeTAR	45 MPH	URBAN PRINCIPAL ARTERIAL
FM715, FM 307	45 MPH	MINOR ARTERIAL
W LOOP 250	55 MPH	URBAN PRINCIPAL ARTERIAL

PROJECT LOCATION MAP
NTS

ROLL: 12 OF 12

SHEET INDEX

SHEET 1 - IH 20 (HWBER715 TO HEBXR715 TO HUTLAMESAWB)
SHEET 2 - IH 20 (HUTLAMESAWB TO HLAMESA)
SHEET 3 - IH 20 (HLAMESA TO HUTLAMESAEB)
SHEET 4 - IH 20 (HUTLAMESAEB TO HEBER349)
SHEET 5 - IH 20 (HEBER349 TO HWBXR349)
SHEET 6 - IH 20 (HWBXR349 TO HWBERLAM)
SHEET 7 - IH 20 (HWBERLAM TO HEBXRLAM)
SHEET 8 - IH 20 (HEBXRLAM TO END)

Horizontal : 1"=100'
Vertical : 1"=10'

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Jacobs Engineering Group Inc.
1999 Bryan Street, Suite 1300
Dallas, Texas 75201
(214) 638-0145

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PLAN ENGINEER:	J. Smith	DATE:	01/15/2020
PM:		DATE:	
CHIEF ENG.:	R. Smith	DATE:	01/15/2020
DESIGN ENGINEER:		DATE:	

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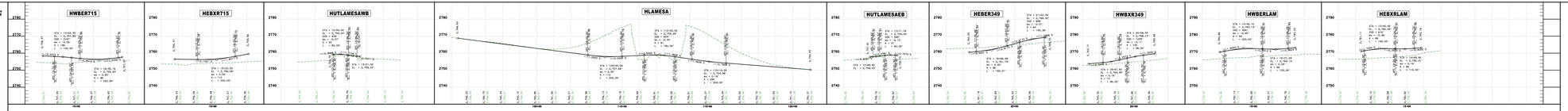

TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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PROJECT LIMIT: FROM EAST OF FM1208 TO EAST OF SH349

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059,
0004-07-128, 0005-14-084, 0005-067,
0005-14-086 , 0005-13-060, 0005-14-087

PROJECT LENGTH = 11.70 MILES (61,792.8 FT)

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	55 MPH	URBAN FREEWAY
RAMPS	55 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	55 MPH	URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREETS
DeTAR	45 MPH	URBAN PRINCIPAL ARTERIAL
FM715, FM 307	45 MPH	MINOR ARTERIAL
W LOOP 250	55 MPH	URBAN PRINCIPAL ARTERIAL

Jacobs
Jacobs Engineering Group Inc.
1999 Bryan Street, Suite 1300
Dallas, Texas 75201
(214) 638-0145

PRELIMINARY FOR DESIGN REVIEW ONLY

THIS DOCUMENT IS BEING PROVIDED FOR REVIEW PURPOSES ONLY AND SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

PLAN ENGINEER:	J. Smith	DATE:	01/15/2020
PM:		DATE:	
CHIEF ENG.:	R. Smith	DATE:	01/15/2020
DESIGN ENGINEER:		DATE:	

ROLL: 12 OF 12

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