100% SCHEMATIC

Texas Department of Transportation

DALLAS DISTRICT
CESSON CLEMENS P.E., DISTRICT ENGINEER

DESIGN SCHEMATIC FOR FM 460

KAUFMAN COUNTY, TEXAS
FM460/FM740

PROJECT LIMIT : FM 460 FROM US 80 TO FM 740 &
FM740 FROM RANCH RD TO NORTH OF MAVERICK DR.
CSJ : 2260-02-009 & 0092-01-023
PROJECT LENGTH : FM 460 - 0.99 MILES & FM 740 - 3.90 MILES
WIDEN 2 LANE ROADWAY TO 5 LANE DIVIDED
DATE : OCTOBER 2025

INDEX OF SHEETS

ROLL 1 OF 5 : TYPICAL SECTIONS & SUMMARY & PR740
ROLL 2 OF 5 : FM460 PLAN FROM BEGIN PROJECT TO STA 67+33.34
FM740 PLAN FROM STA 158+83.61 TO STA 154+00.00
ROLL 3 OF 5 : FM740 PLAN FROM STA 154+00.00 TO END PROJECT
ROLL 4 OF 5 : FM740 PLAN FROM BEGIN PROJECT TO STA 138+83.61
ROLL 5 OF 5 : SUPERELEVATION DIAGRAM
#002 TO #155: CROSS SECTION SHEETS
#302 TO #338: CROSS STREETS CROSS-SECTION SHEETS

TRAFFIC VOLUMES:

NAME OF THE ROAD	EXISTING (2022 AADT)	OPENING (2035 AADT)	DESIGN (2045 AADT)
FM 460	12,600	21,700	39,200
FM 740	13,500	22,900	41,100

VICINITY MAP
SCALE: NTS
ROLL 2 OF 5

EXCEPTIONS: NONE
EQUATIONS: FM740 STA. 138+83.61 (ARD 9
FM460 STA. 67+33.24 (BK)
RAILROAD CROSSINGS: NONE

ROADWAY CLASSIFICATION FM 460	ROADWAY TYPE	TERRAIN	DESIGN SPEED	ⓒ MAX
MAJOR COLLECTOR FM 740	URBAN STREET	LEVEL	45 MPH	4%
MINOR ARTERIAL	URBAN STREET	LEVEL	45 MPH	4%
MAJOR COLLECTOR	URBAN STREET	LEVEL	35 MPH	4%
MINOR COLLECTOR				
URBAN COLLECTOR STREETS	URBAN STREET	LEVEL	30 MPH	4%

0 5 10
HORIZONTAL SCALE IN FEET

0 5 10
VERTICAL SCALE IN FEET

HORIZONTAL : 1" = 100'
PROFILE VERTICAL : 1" = 10'

DESIGN SCHEMATIC 100%
Document incomplete; not intended for permit, bidding or construction.
Engineer: Hadeel J. Ali P.E.
P.E. Serial No: 92775
Date: 10/29/2025

NOT A BIDDING DOCUMENT

AtkinsRéalis
17304 Preston Rd. Suite 1102
Dallas, Texas 75252
972.824.7270 PH
972.386.0009 FX
TBPE NO. BF-1075 TBPLS NO. BF-10116

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LEGEND :

- DIRECTION OF TRAFFIC
- EXISTING RIGHT OF WAY
- EXISTING CENTERLINE
- PROPOSED ROW
- PROPOSED CL
- EXISTING PROPERTY LINES
- PROPOSED PAVEMENT
- PROPOSED MEDIAN
- PROPOSED SIDEWALK / SUP
- PROPOSED CROSS STREET PAVEMENT
- PROPOSED DRIVEWAY
- PROPOSED CURB
- 100 YEAR FLOODPLAIN LIMITS
- FUTURE LANE
- PAVEMENT REMOVAL
- PROPOSED RETAINING WALL
- BUFFER OFFSET(ADJACENT TO SUP/SWR)
- CHANNEL EASEMENT
- WATER TOWERS, INC.
- PROPOSED DRAINAGE EASEMENT
- PROPOSED PITCH
- CITY LIMIT

UTILITY LEGEND

FIBER

- UG FIBER — ATLAT TEXAS
- UG FIBER — AT&T TEXAS
- UG FIBER — CROWN CASTLE
- UG FIBER — VERIZON BUSINESS
- UG FIBER — SUDDENLINK OPTIMUM
- UG FIBER — SUDDENLINK OPTIMUM
- UG FIBER — ZAYO
- UG FIBER — ZAYO
- UG FIBER — ZAYO
- UG FIBER — PEOPLES COMMUNICATIONS
- UG FIBER — PEOPLES COMMUNICATIONS
- UG TELEPHONE — AT&T TEXAS
- UG TELEPHONE — AT&T TEXAS
- UG DUCTBANK — AT&T TEXAS
- UG DUCTBANK — AT&T TEXAS

ELECTRIC

- UG ELECTRIC — ONCOR ELECTRIC
- UG ELECTRIC — ONCOR ELECTRIC
- UG ELECTRIC — FARMERS ELECTRIC COOPERATIVE INC
- UG ELECTRIC — FARMERS ELECTRIC COOPERATIVE INC
- UG ELECTRIC UTILITIES — VARIOUS OWNERS (NOT IDENTIFIED)
- OVERHEAD ELECTRIC — ONCOR TRANSMISSION

GAS

- GAS — ATMOS ENERGY
- GAS — ATMOS ENERGY
- GAS — SENEMO LP
- GAS — SENEMO LP

PIPELINE

- PIPELINE — ATMOS PIPELINE
- PIPELINE — KINDER MORGAN

WATER

- WATER — DALLAS WATER UTILITIES
- WATER — DALLAS WATER UTILITIES
- WATER — FORNEY LAKE
- WATER — FORNEY LAKE WSC
- WATER — FORNEY LAKE WSC
- WATER — FORNEY LAKE WSC
- WATER — CITY OF FORNEY
- WATER MASTER — TEXAS MUNICIPAL/CENTRAL WATER DISTRICT
- WATER MASTER — KAUFMAN CO MUD 3

- END OF UTILITY LINE
- WATER VALVE
- MANHOLE STORM SEWER
- TELECOM PULL BOX
- GAS VALVE
- ELECTRIC PULL BOX

QUALITY LEVEL LEGEND

- QUALITY LEVEL "B"
- QUALITY LEVEL "C"
- QUALITY LEVEL "D"

NOTES:

1. THE CONCEPTUAL SCHEMATICS ARE BASED ON FIELD VISITS AND NON-SURVEYED AERIAL DATA.
2. OWNERSHIP INFORMATION SHOWN ON THE SCHEMATICS ARE OBTAINED FROM KAUFMAN COUNTY APPRAISAL DISTRICT WEBSITE.
3. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING FOOTPRINT.
4. PROPOSED CURBS ARE TYPE A UNLESS STATED OTHERWISE.
5. ALL EXISTING DRIVEWAY ACCESS WILL REMAIN UNLESS IT IS DETERMINED TO BE A SAFETY ISSUE AFTER COORDINATION WITH THE LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE.
6. ALL ROADWAY DESIGN ELEMENTS ARE BASED ON FHWA NCL AASHTOGUIDE, EFFECTIVE JANUARY 12, 2023.
7. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED BY TTI TEXAS A&M TRANSPORTATION INSTITUTE, AUGUST AND THE LOCAL GOVERNMENTS.
8. ALL DIMENSIONS ARE HORIZONTAL AND ARE WITH RESPECT TO THE TOPOGRAPHIC SURVEY. ALL PROPOSED SIDEWALKS FOR CROSSROADS ARE TIED TO EXISTING SIDEWALK AS PER TXDOT.
9. ALL DRIVEWAY RADII ARE 15' UNLESS NOTED OTHERWISE.
10. ALL STREET NAMES ARE BASED ON TXDOT STREET NAMES. THE CENTER OF THE LEFT TURN BAYS ON THE FOLLOWING STREETS ARE BASED ON EXISTING USGS "TRAFFIC" BOLD VENTURE, SAN MARCOS, RAINS COUNTY, JOHNSON CITY AVE, AND MAVERICK DR

SUMMARY OF LAND ACQUISITION

AREA LIMITS:	TOTAL AREA IN ACRES
FM 460 FROM BEGINNING OF THE PROJECT TO STA 67+33.24 FM 740 FROM STA 138+83.61 TO STA 154+00.00	10.87

SUPERELEVATION DIAGRAM

CURVE DATA

CURVE NUMBER	P.I.STATION	P.I.STATION - N	P.I.STATION - E	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C.STATION	P.T.STATION	BACK TANGENT	AHEAD TANGENT
C1	17+41.08	6969952.66	2587406.67	13.00° LEFT	1200'	136.80'	272.42'	N42.27°E	271.84'	16+44.28	19+16.71	N48.781°E	N55.774°E
C2	21+75.54	6970273.65	2587657.95	10.13° RIGHT	1200'	106.23'	211.91'	N49.933°E	211.67'	20+49.31	22+61.22	N55.774°E	N45.892°E
C3	30+18.12	6971417.30	2588017.76	4.66° LEFT	4500'	262.10'	523.61'	N42.558°E	523.31'	35+56.02	40+79.63	N45.892°E	N39.225°E
C4	40+48.17	6972245.75	2588413.69	4.66° RIGHT	4500'	262.10'	523.61'	N39.225°E	523.31'	45+70.28	50+93.89	N39.225°E	N42.558°E
C5	47+49.12	6973016.28	2590322.22	36.00° LEFT	400'	216.38'	419.42'	N64.883°E	409.58'	41+45.80	45+65.22	N42.202°E	N78.917°E
C6	150+00.00	6974050.43	2598257.58	39.480° RIGHT	1050'	378.79'	723.52'	N12.312°W	709.29'	146+12.96	153+46.48	N32.253°W	N7.227°E

LIST OF AFFECTED PROPERTY OWNER (FM460 - US80 INTERSECTION TO FM740 STA. 150+00.00)

ID #	PROP_ID	OWNER_NAME	AREA IMPACTED (ACRES)
1	6411	LITTLE FORNEY CROSSING, LTD	0.09
2	641064409	FORNEY PARTNERS, LTD	2.24
3	641064409	FORNEY PARTNERS, LTD	0.12
4	6414	WILL SHANON & ROSIO AND LINDA CARLO, WARREN	0.05
5	6414	WILL SHANON & ROSIO AND LINDA CARLO, WARREN	0.03
6	6414	WILL SHANON & ROSIO AND LINDA CARLO, WARREN	2.28
7	30169	FARMERS ELECTRIC COOPERATIVE, INC	0.15
8	656345682	JOHN DERRY GIBSON	0.22
9	780	ONCOR ELECTRIC DELIVERY	0.45
10	8566	KNOX OIL OF TEXAS, INC	0.43
11	2110062139&2	MM TR SOUTH II LLC	0.18
12	21563	SHAWN BRITTAIN?	0.001
13	21581	LENNAR HOMES OF TEXAS LAND & CONSTRUCTION, LTD	0.21
14	21582	LENNAR HOMES OF TEXAS LAND & CONSTRUCTION,LTD	0.25
15	214433	DALLAS SOS LLC	0.06
16	214435	MIQ REALTY LLC	0.88
17	214434	MIQ REALTY LLC	0.47
18	214436	MIQ REALTY LLC	0.23

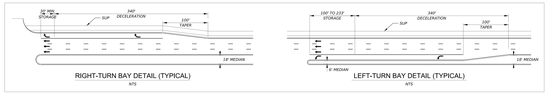
LIST OF AFFECTED PROPERTY OWNER (FROM FM460@FM740 INTERSECTION TO FM740 STA. 150+00.00)

ID #	PROP_ID	OWNER_NAME	
19	16361	WJRL LLC	0.21
20	16361	WJRL LLC	0.61
21	16358	WALKER GARY L & RUBY F	0.46
22	16359	LEBELT SHELBY	0.37
23	16364	GEORGE E. MILLER, JR	0.20
24	656345682	JOHN DERRY GIBSON	0.68

SUPERELEVATION TABLE

	ROAD NAME	STATION	X-SLOPE
BEGIN CONSTRUCTION	FM460	14+85.22	-2.00%
BEGIN TRANSITION	FM460	59+90.00	-2.00%
END TANGENT RUNOUT/BEGIN SE RUNOFF	FM460	60+80.00	0.00% RT
END SE RUNOFF / BEGIN FULL SUPER	FM460	61+70.00	-2.00% RT
BEGIN SE RUNOFF / END FULL SUPER	FM740	144+48.00	-2.00% RT
END SE RUNOFF / BEGIN TANGENT RUNOUT	FM740	145+35.00	0.00% RT
END TRANSITION	FM740	146+25.00	-2.00%
BEGIN TRANSITION	FM740	173+40.00	-2.00%
END TANGENT RUNOUT/BEGIN SE RUNOFF	FM740	174+30.00	0.00% LT
END SE RUNOFF / BEGIN FULL SUPER	FM740	175+20.00	-2.00% LT
BEGIN SE RUNOFF / END FULL SUPER	FM740	177+50.00	-2.00% LT
END SE RUNOFF / BEGIN TANGENT RUNOUT	FM740	178+40.00	0.00% LT
END TRANSITION	FM740	179+30.00	-2.00%
END CONSTRUCTION	FM740	273+53.90	-2.00%

S.NO	CROSS ROAD NAME	LENGTH OF LEFT / RIGHT TURN DECELERATION	TAPER	STORAGE	REMARKS
1	COSTCO	134'	50'	30'	RIGHT TURN LANE
2	LASARA DR	340'	100'	150'	LEFT TURN LANE
3	COSTCO	205'	100'	100'	RIGHT TURN LANE
4	PONDER DR	340'	100'	100'	LEFT TURN LANE
5	BOLD VENTURE DR	340'	100'	230'	LEFT TURN LANE
6	INTERSECTION OF FM460@FM740	340'	120'	80'	RIGHT TURN LANE
7	INTERSECTION OF FM460@FM740	340'	110'	110'	DUAL LEFT TURN LANE
8	LAKE KAY HUBBARD DR	340'	110'	115'	LEFT TURN LANE
9	LAKE KAY HUBBARD DR	340'	100'	80'	RIGHT TURN LANE



RIGHT-TURN BAY DETAIL (TYPICAL)
NTS

LEFT-TURN BAY DETAIL (TYPICAL)
NTS

MATCH LINE STA. 150+00.00
MATCH LINE STA. 134+00.00
PROFILE BY OTHERS
CLEARWATER DR
CLEARWATER DR
CLEARWATER DR

100% SCHEMATIC

Texas Department of Transportation

DISTRICT: BRYAN
COUNTY: KAUFMAN
CONTROL: 0918-00-067, ETC.

DESIGN SCHEMATIC FOR FM 740

KAUFMAN COUNTY, TEXAS

PROJECT LIMIT - FRASE ROAD (0.00 TO 0.75) (0.0 FRTAG FROM RANGE AD TO NORTH OF INVERCE DR.
(0.00 TO 0.75) (0.0 FRTAG FROM RANGE AD)
PROJECT LENGTH - FR 740 - 0.00 MILES (0.75 FM) - 0.00 MILES
WIDEN 2 LANE ROADWAY TO 4 LANE DIVIDED
DATE - OCTOBER 2023

INDEX OF SHEETS

ROLL 2 OF 3 - TYPICAL SECTIONS FOR FM740 & FM740
ROLL 2 OF 3 - FRASE PLAN PROFILE & CROSS SECTIONS (1 OF 2)
ROLL 2 OF 3 - FRASE PLAN PROFILE & CROSS SECTIONS (2 OF 2)
ROLL 2 OF 3 - FRASE PLAN PROFILE & CROSS SECTIONS (1 OF 2)
ROLL 2 OF 3 - FRASE PLAN PROFILE & CROSS SECTIONS (2 OF 2)
ROLL 2 OF 3 - CROSS STREETS PROFILES
ROLL 2 OF 3 - CROSS STREETS PROFILES
ADD TO HUNK CROSS STREETS CROSS SECTION SHEETS

TRAFFIC VOLUMES:

NAME OF THE ROAD	EXISTING (2023)	OPENING (2025)	DESIGN (2045)
FRTAG	11,000	12,000	15,000

VICINITY MAP
SCALE: NTS

EXCEPTIONAL INFRM
EXCEPTIONAL FRASE CITY LIMITS
FRASE CITY LIMITS
SOLUTIONS: FRASE CITY LIMITS

EXCEPTIONAL FRASE CITY LIMITS	FRASE CITY LIMITS	DESIGN	DESIGN SPEED	ADT
FRASE CITY LIMITS	URBAN STREET	LOCAL	40 MPH	4%
URBAN STREET	URBAN STREET	LOCAL	40 MPH	4%
URBAN STREET	URBAN STREET	LOCAL	40 MPH	4%
URBAN STREET	URBAN STREET	LOCAL	40 MPH	4%

ADDISON DRIVE / WEST STREET — LOCKHART DRIVE / EAST STREET

VERTICAL: 1" = 5.00'
PROFILE VERTICAL: 1" = 5.00'

DESIGN SCHEMATIC 12/01
Recommend Acceptance and Interest
Approved Date
Approved: DIRECT, CITY
Approved: DIRECT, CITY
Date: 10/10/2023

NOT A BIDDING DOCUMENT

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Houston, TX 77098
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LEGEND

DIRECTION OF TRAFFIC
EXISTING CENTERLINE
EXISTING EDGE
PAVEMENT
RIGHT OF WAY
PROPOSED CENTERLINE
PROPOSED EDGE
PROPOSED PAVEMENT
PROPOSED RIGHT OF WAY
PROPOSED CROSS STREET PAVEMENT
PROPOSED DRIVEWAY
PROPOSED CURB
OFF CURB CULDESAC LIMITS
PROPOSED CURB
PROPOSED MEDIAN
PROPOSED CROSS STREET
PROPOSED CROSS STREET PAVEMENT
PROPOSED DRIVEWAY
PROPOSED CURB
OFF CURB CULDESAC LIMITS
PROPOSED CURB
PROPOSED MEDIAN
PAVEMENT MARKING
PAVEMENT MARKING
BUFFER SPACE/SHOULDER TO SUPPORT
CHANNEL DIVERSION
PROPOSED PAVEMENT EXPANSION
PROPOSED LIFTS
CITY LIMIT

UTILITY LEGEND

ELECTRIC
UG ELECTRIC
OH ELECTRIC
UG ELECTRIC
OH ELECTRIC
OVERHEAD ELECTRIC
UNDERGROUND ELECTRIC
TRANSMISSION
OVERHEAD TRANSMISSION
ELECTRIC TRANSMISSION

WATER
WATER
WATER

100% SCHEMATIC

Texas Department of Transportation

CONTROL: 0918-00-067 PROJECT: NH(444)=278 DISTRICT: ABILENE

DESIGN SCHEMATIC FOR FM 740

KAUFFMAN COUNTY, TEXAS

PROJECT LIMIT - FRANS FROM US 80 TO FM 740 & FRTWO FROM RANCH RD TO NORTH OF WAURIKA DR.
PROJECT LENGTH - FR 740 - 0.58 MILES & FR TWO - 0.49 MILES
WIDEN 2 LANE ROADWAY TO 5 LANE DIVIDED
DATE - OCTOBER 2023

HOUSE OF SHERTS
ROLL 0.5F 0 - FRWALL BETWEEN FR740 & FRTWO
ROLL 0.5F 1 - FRWALL FROM BEGIN OF PROJECT TO STA 12+00
ROLL 0.5F 2 - FRWALL FROM STA 12+00 TO STA 24+00 & FRTWO
ROLL 0.5F 3 - FRWALL FROM STA 24+00 TO STA 36+00 & FRTWO
ROLL 0.5F 4 - FRWALL FROM STA 36+00 TO STA 47+00 & FRTWO
ROLL 0.5F 5 - CROSS STREETS PROFILE
ROLL 0.5F 6 - FRWALL FROM STA 47+00 TO END
HIDE TO HIDE CROSS STREETS ROLL SECTION SHEETS

TRAFFIC VOLUMES:

NAME OF THE ROAD	EXISTING (2023)	OPENING (2026)	DESIGN (2046)
FRTWO	2,5,080	27,400	41,100

VICINITY MAP
SCALE: NTS
FRTWO
EXCEPTIONAL WORK
EXCAVATION: CRITER COL 2.00 VOLUME 4
FRAME STA. 67+12.31 (RT)
SOIL/ROCK/WATER: ROCK

CONDITIONS	PRELIMINARY	DESIGN	FINAL
ROADWAY	URBAN STREET	LEVEL	40 MPH
ROAD OF ACTIVE	URBAN STREET	LEVEL	40 MPH
ROAD OF ACTIVE	URBAN STREET	LEVEL	40 MPH
ROAD OF ACTIVE	URBAN STREET	LEVEL	40 MPH

ADDING TRAFFIC SIGNAL — LEFT TURN LANE
ADDING TRAFFIC SIGNAL — LEFT TURN LANE

HORIZONTAL: 1" = 20' 0.0"
PROFILE VERTICAL: 1" = 2' 0.0"

DESIGN SCHEMATIC 100%
Recommend Acceptance and Interest
Approved Design Schematic
Engineer: JAMES J. LEE
Date: 10/05/2023
Date: 10/05/2023

NOT A BIDDING DOCUMENT

AtkinsRéalis
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Austin, TX 78705
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LEGEND

- NORMAL FLOW OF TRAFFIC
- EXISTING CONCRETE PAVEMENT
- EXISTING CONTROL POINT
- EXISTING ROAD
- EXISTING BUSINESS
- PROPOSED RIGHT OF WAY
- PROPOSED PAVEMENT
- PROPOSED BUSINESS
- PROPOSED GEOMETRIC CLIP
- PROPOSED CROSS STREET PAVEMENT
- PROPOSED CONCRETE
- EXISTING ALIGNMENT
- ERF REAR FLOOR PLAN LIMITS
- PROPOSED CURB
- PAVEMENT REMOVAL
- PROPOSED DRIVEWAY PAVEMENT
- BUFFER OFF/TOP/BOTTOM OF TO SUNSAWO
- PROPOSED CONCRETE
- PROPOSED DRAINAGE EASEMENT
- PROPOSED DITCH
- CITY LIMITS

UTILITY LEGEND

FIBER
- US FIBER — AT&T TEXAS
- US FIBER — AT&T TEXAS
- US FIBER — AMERICAN BUSINESS
- US FIBER — AT&T TEXAS
- US FIBER — SUDDENLINK OPTIMUM
- US FIBER — SUDDENLINK OPTIMUM
- US FIBER — ZAYO
- US FIBER — ZAYO
- US FIBER — ZAYO
- US TELEPHONE — WORLDCO COMMUNICATIONS
- US TELEPHONE — WORLDCO COMMUNICATIONS
- US TELEPHONE — AT&T TEXAS
- US ELEC TRANS — AT&T TEXAS
- US ELEC TRANS — AT&T TEXAS
- US ELEC TRANS — ZAYO

ELECTRIC
- US ELECTRIC — ONCOR ELECTRIC
- US ELECTRIC — ONCOR ELECTRIC
- US ELECTRIC — FARMERS ELECTRIC COOPERATIVE INC
- US ELECTRIC — FARMERS ELECTRIC COOPERATIVE INC
- US ELECTRIC — CHARGE CHARGE (BEST WRITTEN)
- US ELECTRIC — ONCOR TRANSMISSION

GAS
- GAS — ATMOS ENERGY
- GAS — ATMOS ENERGY
- GAS — SENEACA LLP
- GAS — SENEACA LLP

PIPELINE
- PIPELINE — ATMOS PIPELINE
- PIPELINE — ENDEER PIERCAN

WATER
- WATER — DALLAS WATER UTILITIES
- WATER — DALLAS WATER UTILITIES
- WATER — FORNEY LAKE WATER
- WATER — FORNEY LAKE WATER
- WATER — FORNEY LAKE WATER
- WATER — FORNEY LAKE WATER
- WATER — CITY OF TERRELL WATER
- WATER — TERRELL WATER SUPPLY CORPORATION
- WATER — SOUTHEAST TX RAILS
- WATER — WHITE WATER
- WATER — WHITE WATER
- WATER — WHITE WATER