TEXAS DEPARTMENT OF TRANSPORTATION
AUSTIN DISTRICT

PRELIMINARY DESIGN SCHEMATIC
TRAVIS / BASTROP COUNTIES
FM 812
FROM US 183
TO SH 21

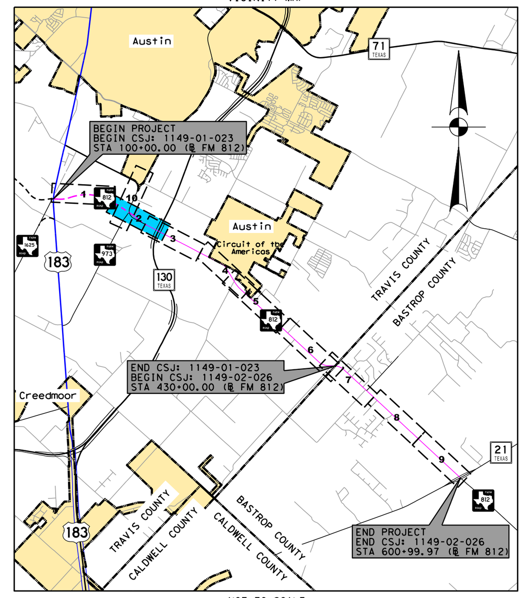
CSJ: 1149-01-023 (TRAVIS COUNTY)
1149-02-026 (BASTROP COUNTY)

PROJECT LENGTH: ROADWAY = 49314.97 FT = 9.340 MILES
BRIDGE = 785.00 FT = 0.149 MILES
TOTAL = 50099.97 FT = 9.489 MILES

NO RAILROADS
NO EQUATIONS
NO EXCEPTIONS

PROJECT DESCRIPTION:
FOR THE CONSTRUCTION OF: REALIGN AND IMPROVE ROADWAY TO MAD-4.
CONSISTING OF: GRADING, HMAC PAVING, FLEX BASE, CURB & GUTTER, BRIDGE, STORM SEWER, CULVERTS, STORMWATER FACILITIES, SIGNALIZATION, SIDEWALKS, RETAINING WALLS, SIGNING, AND PAVEMENT MARKINGS.

VICINITY MAP



NOT TO SCALE

DESIGN DATA:

ROADWAY	FUNCTIONAL CLASSIFICATION	DESIGN SPEED	DESIGN STANDARD	e_{max} (%)
FM 812:				
US 183 TO FM 973	URBAN ARTERIAL (OTHER)	70 MPH (URBAN)	RDM CH 3-5 (2022)	6%
FM 973 TO SH 130	URBAN ARTERIAL (OTHER)	60 MPH (URBAN)	RDM CH 3-5 (2022)	6%
SH 130 TO PILAND	RURAL ARTERIAL (OTHER)	70 MPH (RURAL)	RDM CH 3-5 (2022)	6%
PILAND TO DOYLE	RURAL ARTERIAL (OTHER)	45 MPH (URBAN)	RDM CH 3-2 (2022)	6%
DOYLE TO SH 21	RURAL ARTERIAL (OTHER)	70 MPH (RURAL)	RDM CH 3-5 (2022)	6%
CROSS STREETS:				
US 183	URBAN PRINCIPAL ARTERIAL	65 MPH (URBAN)	RDM CH 4 (2022)	6%
FM 973	URBAN MAJOR COLLECTOR	50 MPH (URBAN)	RDM CH 3-2 (2022)	6%
SH 130 (FRTG)	URBAN MAJOR COLLECTOR	55 MPH (RURAL)	RDM CH 4 (2022)	6%
SH 21	RURAL PRINCIPAL ARTERIAL	65 MPH (RURAL)	RDM CH 4 (2022)	6%
FM 2430	RURAL MINOR COLLECTOR	55 MPH (RURAL)	RDM CH 4 (2022)	6%
OTHER	LOCAL	30 MPH (RURAL)	RDM CH 4 (2022)	6%

TRAFFIC DATA:

LOCATION	CURRENT (2022)	PROJECTED (2042)
US 183 TO SH 21	19,500 VPD	27,800 VPD

LEGEND

ROADWAY
- PROPOSED ROADWAY/ CROSS STREETS/ DRWYS
- PROPOSED PED/BIKE PATH
- PROPOSED BRIDGE
- PAVEMENT REMOVAL
- PROPOSED ROADWAY (BY OTHERS)
- PROPOSED CONCRETE RIPRAP
- EXISTING TRAVEL LANE
- PROPOSED TRAVEL LANE
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- PROPOSED PERM EASEMENT
- PROPOSED RETAINING WALL

ENVIRONMENTAL CONSTRAINTS
- 100-YR FLOODPLAIN
- NWI WETLANDS
- CEMETERY
- POTENTIAL NRHP STRUCTURE
- HISTORICAL MARKER
- CELLULAR TOWER
- GAS WELL

BUILDINGS/STRUCTURES
- RESIDENTIAL
- COMMERCIAL
- MUNICIPAL
- CHURCH
- POTENTIAL RESIDENTIAL DISPLACEMENT
- POTENTIAL NON-RESIDENTIAL DISPLACEMENT

TYPICAL SECTIONS
- (A) 1" TOM-C PG 76-22 SAC-A
- (B) 1.5" HMA TY-D PG 70-22
- (C) 3" HMA TY-B PG 64-22
- (D) PRIME COAT
- (E) 8" FL BS TY-A GR-5
- (F) 8" LIME-TRT SUBGRADE

UTILITIES

TELEPHONE
- (ATT) UG TEL (ATT)
- OT OH TEL

UG FIBER OPTIC
- ATT ATT
- L3 LEVEL 3
- TW TIME WARNER

ELECTRIC
- OE OH ELEC
- OE UG (BLUE BONNET)

OIL/GAS PIPELINE
- CTG CITGO
- DGP DGP LULING
- ETP ENTERPRISE
- EXX EXXON MOBIL
- HOU HOUSTON
- KM KINDER MORGAN
- P66 PHILLIPS 66

STORM
- ST STORM LINE

WASTEWATER
- WW WASTEWATER LINE

WATER
- W ABANDONED - AUSTIN
- W TO BE ABAN - AUSTIN
- W AUSTIN WATER
- AQ AQUA WSC
- CM CREEDMOOR-MAHA WSC

PROFILE
- PROPOSED PROFILE GRADE LINE
- EXISTING GROUND @ ℄
- EXISTING GROUND @ LT ROW
- EXISTING GROUND @ RT ROW
- EXISTING GROUND @ EXIST FM812 ℄
- PROPOSED CULVERT

SCALE
0 100 200 (HORIZ) 1" = 100'
0 10 20 (VERT) 1" = 20'

F.M. 812 CONTROL

HM #10001 (BRASS DISK IN CONCRETE)
N=10,012,516.958 E=3,158,428.570 EL=572.85

HM #10002 (BRASS DISK IN CONCRETE)
N=10,023,117.501 E=3,145,944.718 EL=491.13

HM #10003 (BRASS DISK IN CONCRETE)
N=10,028,987.442 E=3,130,045.170 EL=537.78

COORDINATES ARE SURFACE COORDINATES

HORIZONTAL DATUM: NAD83
HORIZONTAL ADJUSTMENTS: CSF:1.00010
PROJECT ZONE: TEXAS CENTRAL

VERTICAL DATUM: NAVD88
UNITS OF MEASURE: US SURVEY FEET

INTERIM REVIEW ONLY
Document incomplete. Not intended for permit, bidding or construction.
Engineer: MASHHOOD ALI SHAH
P.E. Serial No: 82080
Date: 12/15/2023

INTERIM REVIEW ONLY
Document incomplete. Not intended for permit, bidding or construction.
Engineer: R. MATTHEW ESTES
P.E. Serial No: 101558
Date: 12/15/2023

PAPE-DAWSON ENGINEERS
10350 RICHMOND AVE. STE. 200 | HOUSTON , TEXAS 77042 | PHONE: 713.428.2400 FAX: 713.428.2420
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

Texas Department of Transportation

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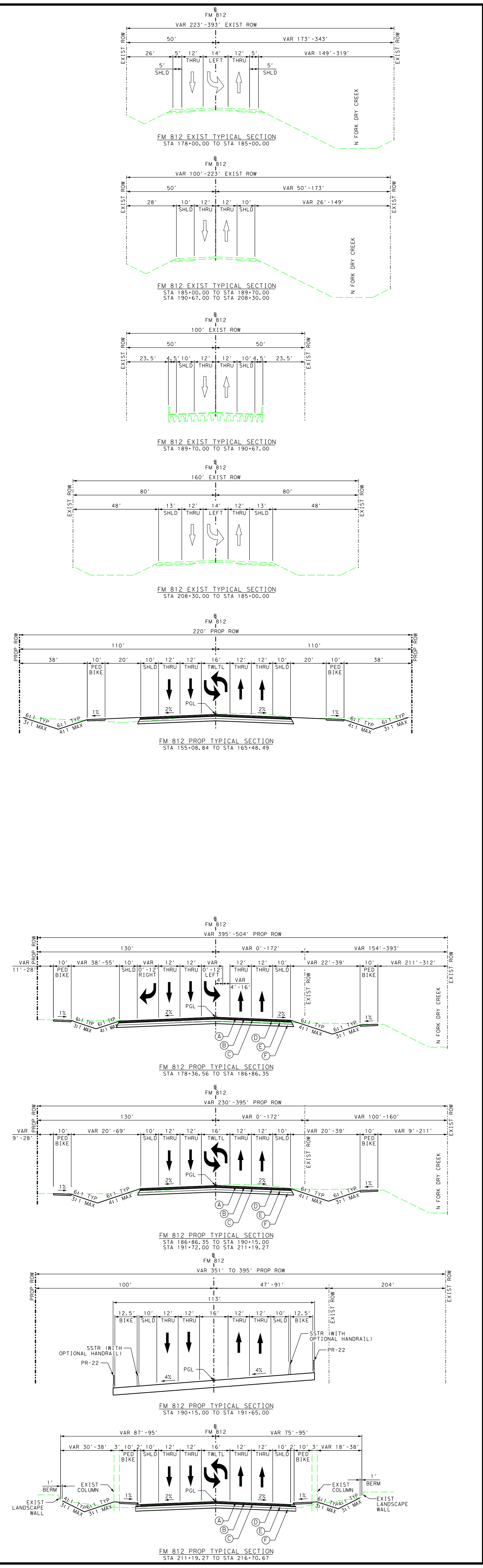

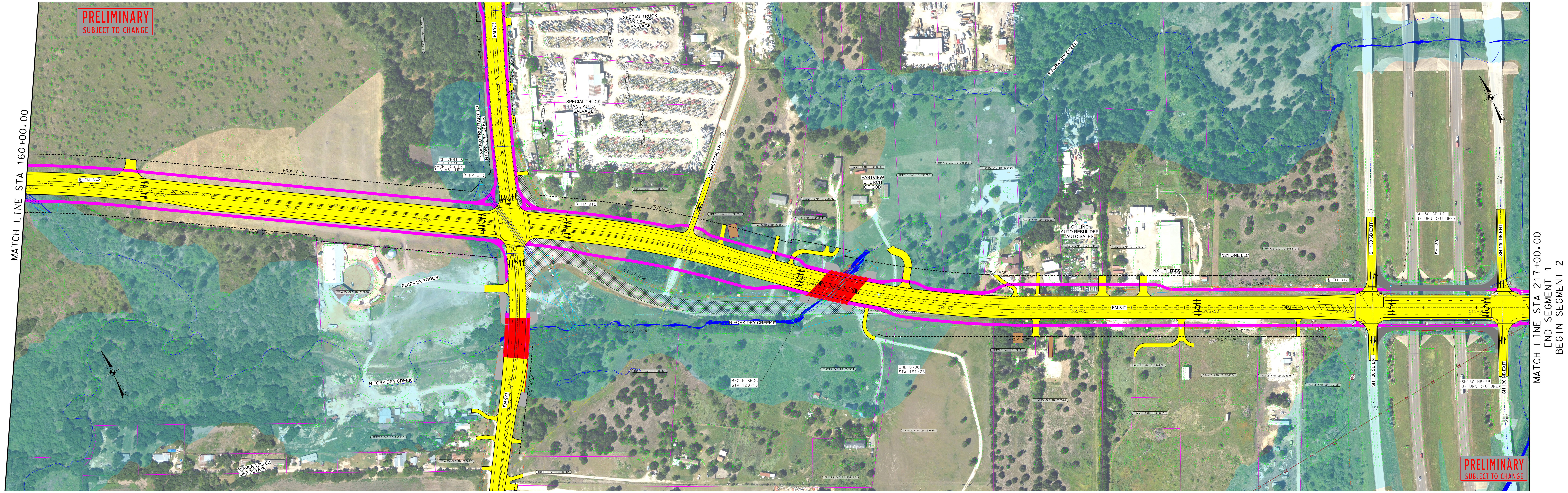

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