SCHEMATIC LAYOUT
SMITH COUNTY
FM 2493

Texas Department of Transportation

FROM: FM 2813 (GRESHAM)
TO: FM 346 (FLINT)

TYLER DISTRICT

NOT A BIDDING DOCUMENT

ROBERT L. SUTTON 48866
R. L. Sutton 6/10/15

DATE SUBMITTED ☐

APPROVED BY ☐

ROADWAY	FUNCTIONAL CLASSIFICATION	DESIGN SPEED
FM 2493	MAJOR COLLECTOR - SUBURBAN 410+00 TO 494+00	55 MPH
FM 2493	(WITHIN GRESHAM & FLINT) - URBAN 395+00 TO 410+00 494+00 TO 516+00	45 MPH

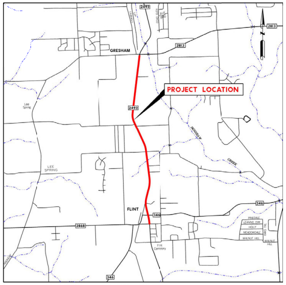
LEGEND

SYMBOLOGY		LINE WT	COLOR CODE	
MAIN LANES WIDENING	━━━	3	WHITE	0
DRIVEWAYS	───	2	BLACK	0
EXISTING ROW	- - - -	1	BLACK	0
PROPOSED ROW	-·-·-·	5	RED	3
EXISTING ROW	- - - -	1	BLACK	0
DRIVEWAY EASEMENT	-·-·-·	5	BLUE	1
PLANIMETRIC	⊔	1	GREEN	2
EXISTING LANE DIRECTIONAL INDICATOR	⇨	0	BLACK	0
PROPOSED LANE DIRECTIONAL INDICATOR	➡	0	BLACK	0
ROADWAY TO BE REMOVED	▭	1	BLACK	0

SCALE: 0 50 100 150 200

COLOR FILL LEGEND

DRIVEWAYS	🟥	RED	3
PROPOSED MAIN LANE	🟪	PURPLE	141
PROPOSED SIDEWALKS	▨	YELLOW	4


2493
2813
GRESHAM
PROJECT LOCATION
2493
Lee Spring
LEE SPRING
FLINT
346
2868
346
Flint Cemetery
PINEDALE
LEANING OAK
HOLLY
MEADOWDALE
WALNUT HILL
OAKS TRL
WALNUT HILL
CREEK
N

VICINITY MAP
N.T.S.

PARSONS BRINCKERHOFF
16200 Park Row, Suite 200
Houston, TX 77084 TBPE # 2263

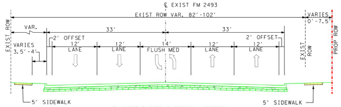
IDC
Planners-Engineers-Program Managers
11111 Wilcrest Green, Suite 250
Houston, Texas 77042

IDC INC. F-6825

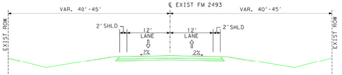
FM 2493 ALTERNATIVE #1 RV3 SCHEMATIC LAYOUT FM 2813 TO FM 346

SHT 1 OF 2

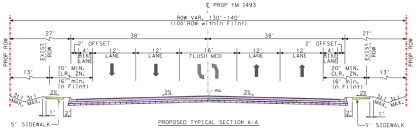
DATE: 6/16/2015
FILENAME: T:\31220C*FM 2493\SCH\PB*FM*2493*SCH*ALT1A*RV3.dgn
HIGHWAY: HWY
CSJ: C S JOB


℄ EXIST FM 2493
EXIST ROW VAR. 82'-102'
VARIES 0'-7.5'
EXIST ROW
VAR.
33'
33'
2' OFFSET
2' OFFSET
VARIES 3.5'-4'
12' LANE
12' LANE
14' FLUSH MED
12' LANE
12' LANE
EXIST ROW
PROP ROW
5' SIDEWALK
5' SIDEWALK

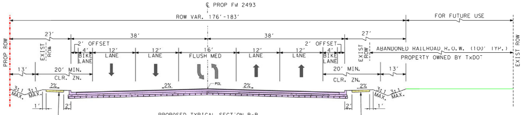
FM 2493 EXISTING TYPICAL SECTION
WITH PROPOSED SIDEWALKS FROM STA 395+86 TO STA 400+14


℄ EXIST FM 2493
VAR. 40'-45'
VAR. 40'-45'
EXIST ROW
2'SHLD
12' LANE
12' LANE
2'SHLD
2%
2%
EXIST ROW

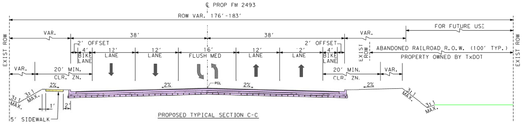
FM 2493 EXISTING TYPICAL SECTION


℄ PROP FM 2493
ROW VAR. 130'-140'
(100'ROW within Flint)
PROP ROW
27'
38'
38'
27'
EXIST ROW
2' OFFSET
4' BIKE LANE
12' LANE
12' LANE
16' FLUSH MED
12' LANE
12' LANE
4' BIKE LANE
2' OFFSET
EXIST ROW
PROP ROW
13'
20' MIN. CLR. ZN. (6' min. in Flint)
20' MIN. CLR. ZN. (6' min. in Flint)
13'
3:1 MAX.
3:1 MAX.
2%
2%
PGL
2%
2%
3:1 MAX.
3:1 MAX.
1'
2'
2'
1'

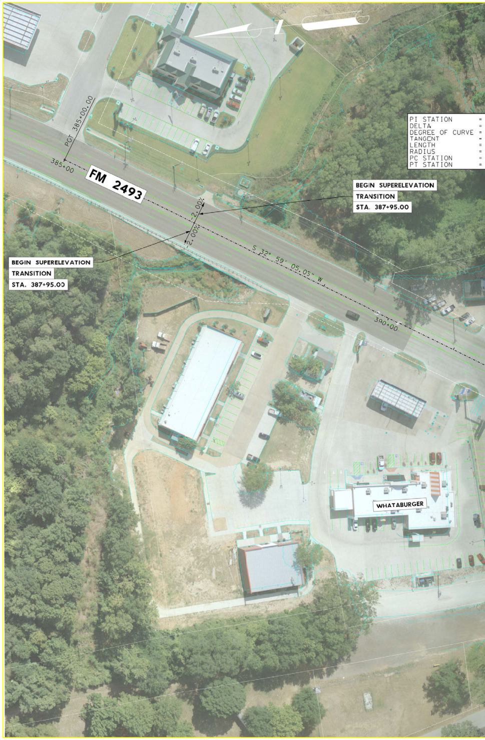
5' SIDEWALK
PROPOSED TYPICAL SECTION A-A
5' SIDEWALK

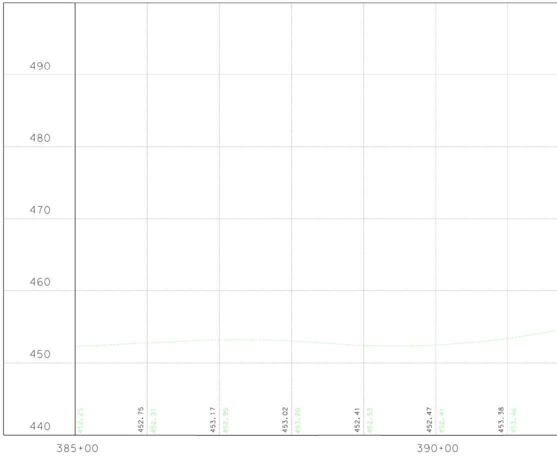

℄ PROP FM 2493
ROW VAR. 176'-183'
FOR FUTURE USE
PROP ROW
27'
38'
38'
27'
EXIST ROW
2' OFFSET
4' BIKE LANE
12' LANE
12' LANE
16' FLUSH MED
12' LANE
12' LANE
4' BIKE LANE
2' OFFSET
EXIST ROW
ABANDONED RAILROAD R.O.W. (100' TYP.)
PROPERTY OWNED BY TxDOT
EXIST ROW
13'
20' MIN. CLR. ZN.
20' MIN. CLR. ZN.
13'
3:1 MAX.
3:1 MAX.
2%
2%
PGL
2%
2%
3:1 MAX.
3:1 MAX.
1'
2'
2'
1'

5' SIDEWALK
PROPOSED TYPICAL SECTION B-B
5' SIDEWALK

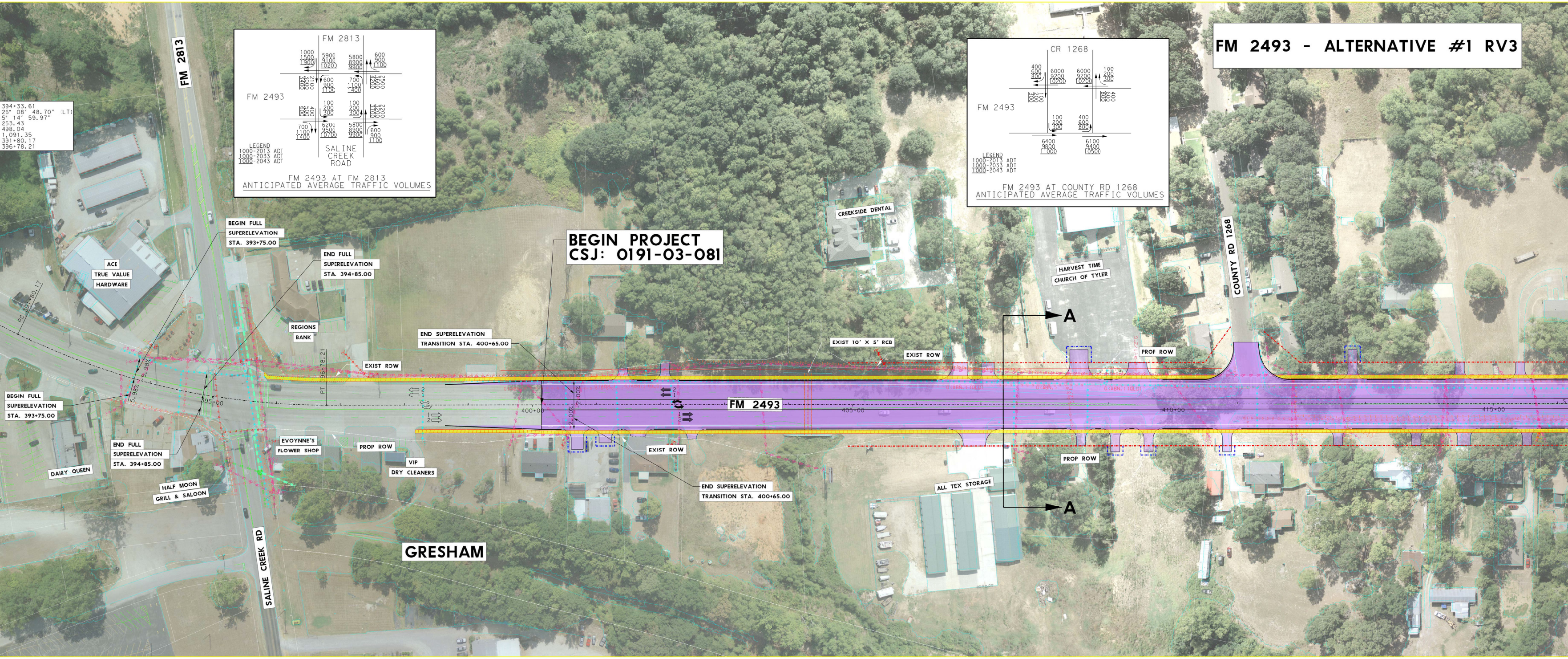

℄ PROP FM 2493
ROW VAR. 176'-183'
FOR FUTURE USE
EXIST ROW
VAR.
38'
38'
VAR.
2' OFFSET
4' BIKE LANE
12' LANE
12' LANE
16' FLUSH MED
12' LANE
12' LANE
4' BIKE LANE
2' OFFSET
EXIST ROW
ABANDONED RAILROAD R.O.W. (100' TYP.)
PROPERTY OWNED BY TxDOT
EXIST ROW
VAR.
20' MIN. CLR. ZN.
20' MIN. CLR. ZN.
VAR.
3:1 MAX.
3:1 MAX.
2%
2%
PGL
2%
2%
3:1 MAX.
3:1 MAX.
1'
2'

5' SIDEWALK
PROPOSED TYPICAL SECTION C-C

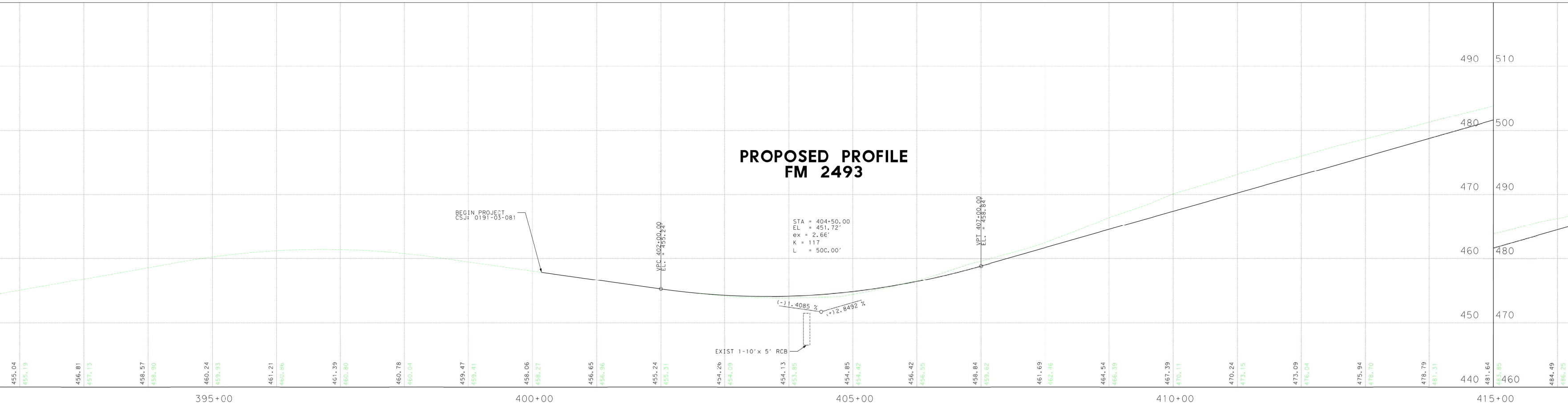

PCT 385+00.00
385+00
FM 2493
PI STATION =
DELTA =
DEGREE OF CURVE =
TANGENT =
LENGTH =
RADIUS =
PC STATION =
PT STATION =
BEGIN SUPERELEVATION
TRANSITION
STA. 387+95.00
2.00%
2.00%
BEGIN SUPERELEVATION
TRANSITION
STA. 387+95.00
S 32° 59' 05.05" W
390+00
WHATABURGER

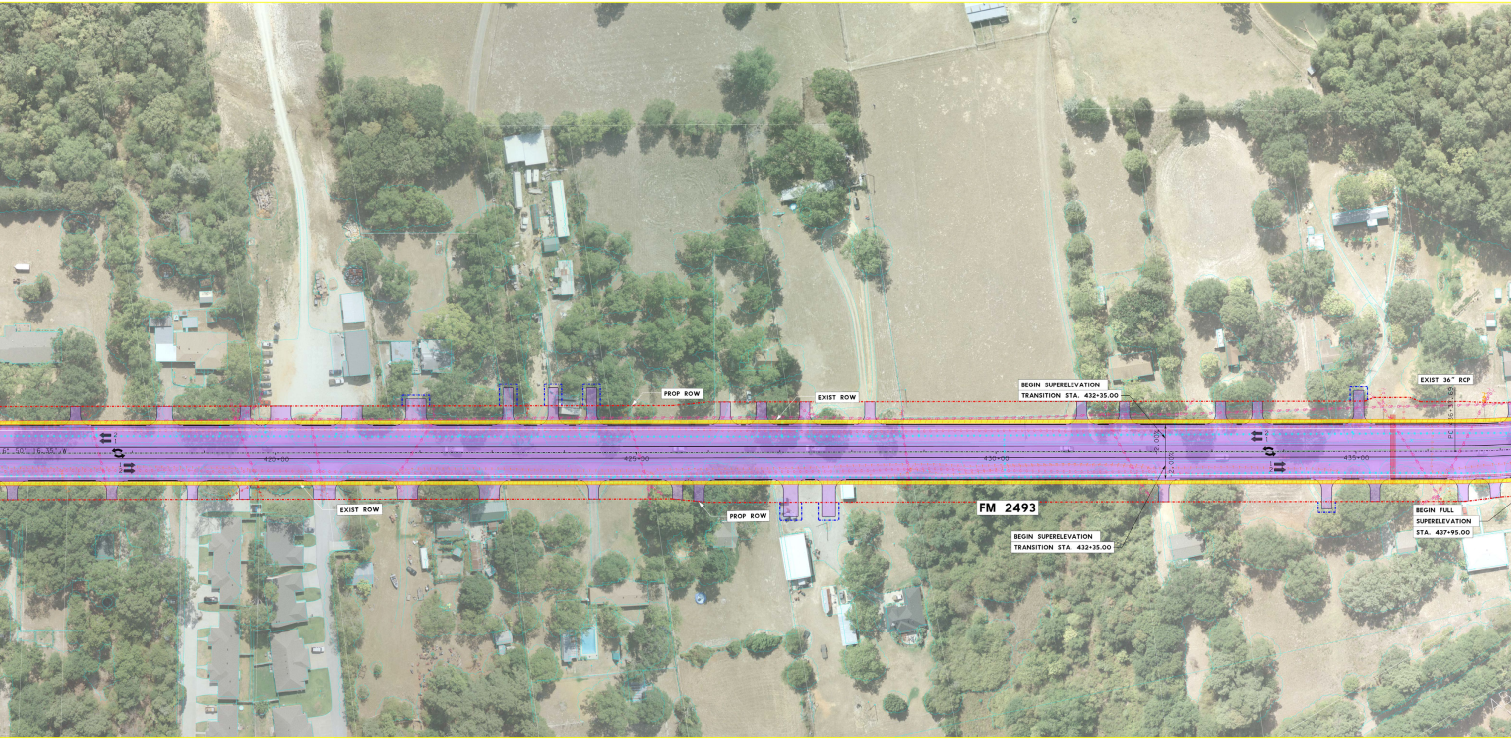


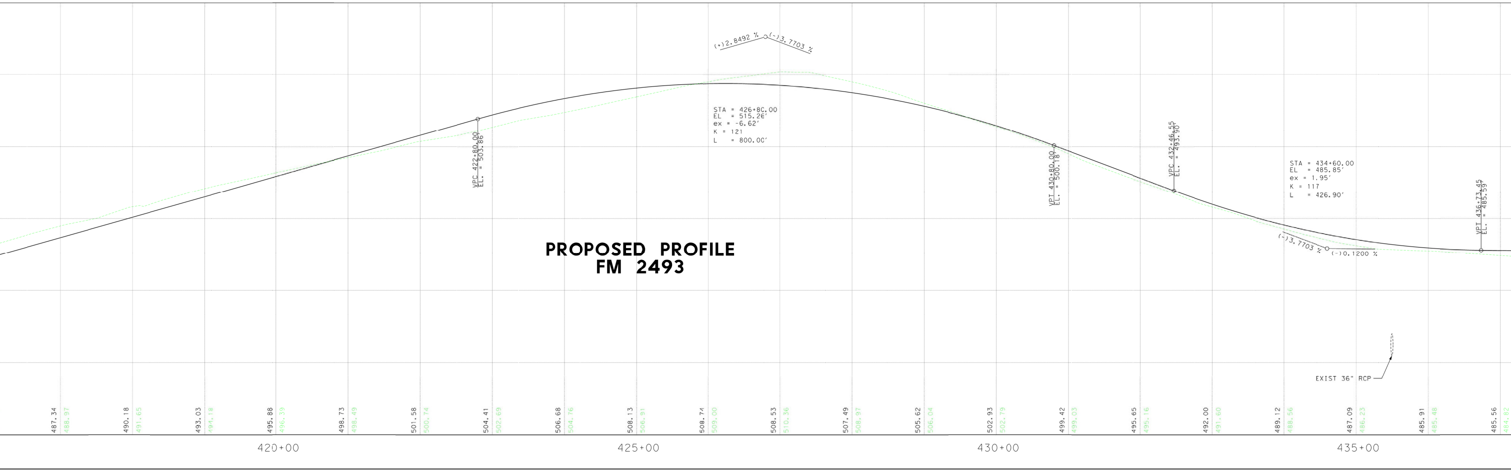
FM 2493 - ALTERNATIVE #1 RV3


394+33.61
25° 08' 48.70" (LT)
5° 14' 59.97"
253.43
498.04
1,091.35
391+80.17
396+78.21
FM 2813
FM 2813
FM 2493
1000 1500 1900
5900 9100 10200
5800 8900 9900
600 900 1100
2100 3000 3400
600 900 1100
700 1100 1400
2500 3600 4200
400 500 600
100 200 300
100 200 300
2200 3200 3700
700 1100 1400
6200 9500 10700
5800 8900 9900
600 900 1100
LEGEND
1000-2013 ACT
1000-2033 ACT
1000-2043 ACT
SALINE CREEK ROAD
FM 2493 AT FM 2813
ANTICIPATED AVERAGE TRAFFIC VOLUMES
CR 1268
FM 2493
400 600 800
6000 9200 10200
6000 9200 10200
100 200 300
100 200 300
400 600 800
100 200 300
400 600 800
6400 9800 11000
6100 9400 10500
LEGEND
1000-2013 ADT
1000-2033 ADT
1000-2043 ADT
FM 2493 AT COUNTY RD 1268
ANTICIPATED AVERAGE TRAFFIC VOLUMES
BEGIN FULL SUPERELEVATION STA. 393+75.00
END FULL SUPERELEVATION STA. 394+85.00
ACE TRUE VALUE HARDWARE
PC 391+80.17
REGIONS BANK
BEGIN PROJECT
CSJ: 0191-03-081
END SUPERELEVATION TRANSITION STA. 400+65.00
CREEKSIDE DENTAL
HARVEST TIME CHURCH OF TYLER
COUNTY RD 1268
A
A
EXIST 10' X 5' RCB
EXIST ROW
PROP ROW
EXIST ROW
PT 396+78.21
395+00
400+00
405+00
410+00
415+00
2.00%
2.00%
FM 2493
BEGIN FULL SUPERELEVATION STA. 393+75.00
END FULL SUPERELEVATION STA. 394+85.00
DAIRY QUEEN
HALF MOON GRILL & SALOON
EVOYNNE'S FLOWER SHOP
PROP ROW
VIP DRY CLEANERS
EXIST ROW
END SUPERELEVATION TRANSITION STA. 400+65.00
PROP ROW
ALL TEX STORAGE
SALINE CREEK RD
GRESHAM

PROPOSED PROFILE FM 2493

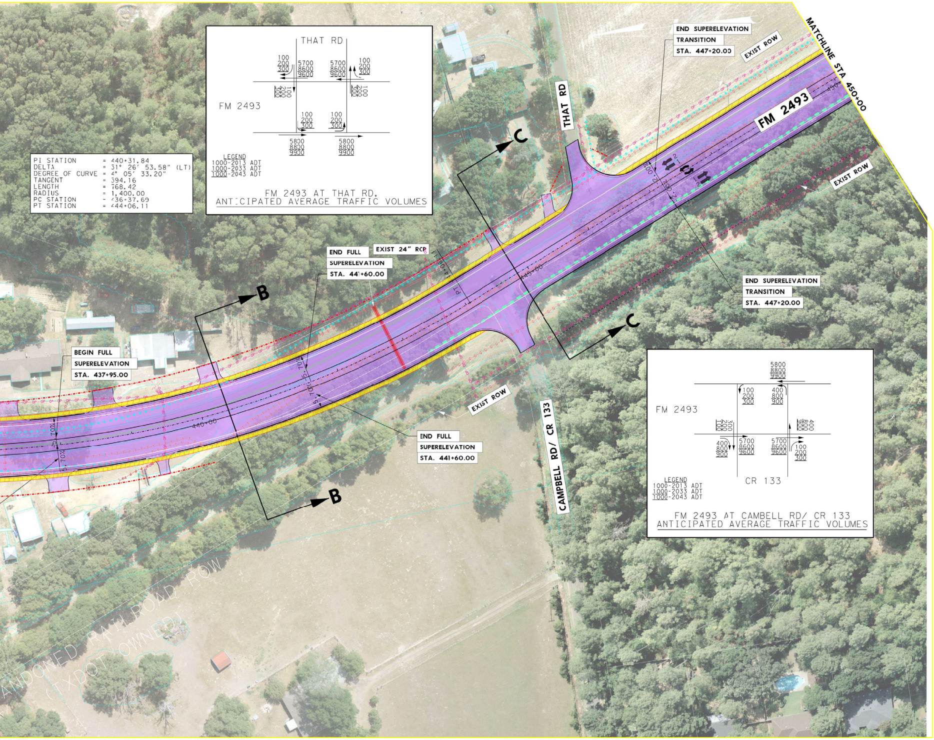


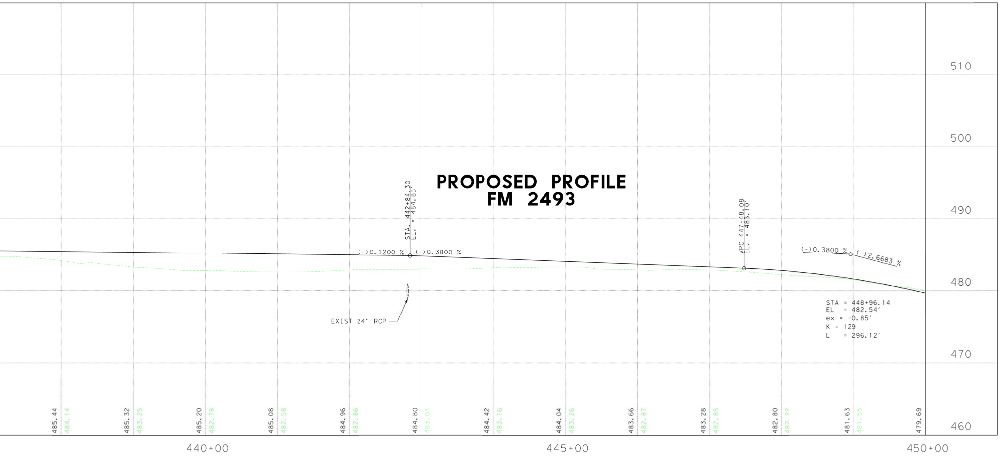

PROP ROW
EXIST ROW
BEGIN SUPERELIVATION
TRANSITION STA. 432+35.00
EXIST 36" RCP
PC 436+37.69
6° 50' 16.35" W
420+00
425+00
430+00
435+00
2.00%
2.00%
2
1
1
2
EXIST ROW
PROP ROW
FM 2493
BEGIN SUPERELEVATION
TRANSITION STA 432+35.00
BEGIN FULL
SUPERELEVATION
STA. 437+95.00



PROPOSED PROFILE
FM 2493

(+)2.8492 %
(-)3.7703 %
STA = 426+80.00
EL = 515.26'
ex = -6.62'
K = 121
L = 800.00'
VPC 422+80.00
EL. = 503.86'
VPT 430+80.00
EL. = 500.18'
VPC 432+46.55
EL. = 493.90'
STA = 434+60.00
EL = 485.85'
ex = 1.95'
K = 117
L = 426.90'
(-)3.7703 %
(-)0.1200 %
VPT 436+73.45
EL. = 485.59'
EXIST 36" RCP
487.34
488.97
490.18
491.65
493.03
494.18
495.88
496.39
498.73
498.49
501.58
500.74
504.41
502.69
506.68
504.76
508.13
506.91
508.74
509.00
508.53
510.36
507.49
508.97
505.62
506.04
502.93
502.79
499.42
499.03
495.65
495.16
492.00
491.60
489.12
488.56
487.09
486.23
485.91
485.48
485.56
484.82
420+00
425+00
430+00
435+00


PI STATION = 440+31.84
DELTA = 31° 26′ 53.58" (LT)
DEGREE OF CURVE = 4° 05′ 33.20"
TANGENT = 394.16
LENGTH = 768.42
RADIUS = 1,400.00
PC STATION = 436+37.69
PT STATION = 444+06.11
THAT RD
FM 2493
100 200 300
5700 8600 9600
5800 8800 9900
LEGEND
1000-2013 ADT
1000-2033 ADT
1000-2043 ADT
FM 2493 AT THAT RD.
ANTICIPATED AVERAGE TRAFFIC VOLUMES
END SUPERELEVATION TRANSITION STA. 447+20.00
EXIST ROW
MATCHLINE STA 450+00
FM 2493
THAT RD
C
END FULL SUPERELEVATION STA. 441+60.00
EXIST 24" RCP
B
BEGIN FULL SUPERELEVATION STA. 437+95.00
440+00
445+00
EXIST ROW
END FULL SUPERELEVATION STA. 441+60.00
CAMPBELL RD/ CR 133
FM 2493
CR 133
400 800 900
FM 2493 AT CAMBELL RD/ CR 133
ANTICIPATED AVERAGE TRAFFIC VOLUMES
ABANDONED RAILROAD ROW (TXDOT OWNED)


PROPOSED PROFILE
FM 2493
STA. 442+84.30
EL. = 484.85′
(-)0.1200 %
(-)0.3800 %
VPC 447+48.08
EL. = 483.10′
(-)0.3800 %
(-)2.6683 %
EXIST 24" RCP
STA = 448+96.14
EL = 482.54′
ex = -0.85′
K = 129
L = 296.12′
510
500
490
480
470
460
485.44
484.14
485.32
483.25
485.20
482.78
485.08
482.58
484.96
482.86
484.80
483.01
484.42
483.16
484.04
483.26
483.66
482.87
483.28
482.85
482.80
482.27
481.63
481.55
479.69
440+00
445+00
450+00

Texas Department of Transportation

SCHEMATIC LAYOUT
SMITH COUNTY
FM 2493

FROM: FM 2813 (GRESHAM)
TO: FM 346 (FLINT)

TYLER DISTRICT

NOT A BIDDING DOCUMENT

ROBERT E. SUTTON
48866

R. E. Sutton
6/10/15

DATE SUBMITTED

APPROVED BY

ROADWAY	FUNCTIONAL CLASSIFICATION	DESIGN SPEED
FM 2493	MAJOR COLLECTOR - SUBURBAN 410+00 TO 494+00	55 MPH
FM 2493	(WITHIN GRESHAM & FLINT) - URBAN 395+00 TO 410+00 494+00 TO 516+00	45 MPH

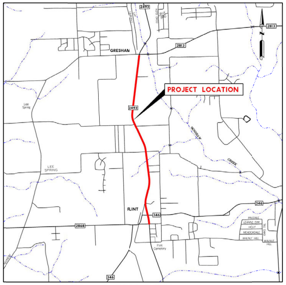
LEGEND

SYMBOLOGY		LINE WT	COLOR CODE	
MAIN LANES WIDENING	━━	3	WHITE	0
DRIVEWAYS	──	2	BLACK	0
EXISTING ROW	- - -	1	BLACK	0
PROPOSED ROW	-·-·-	5	RED	3
EXISTING ROW	- - -	1	BLACK	0
DRIVEWAY EASEMENT	-·-·-	5	BLUE	1
PLANIMETRIC	⌣	1	GREEN	2
EXISTING LANE DIRECTIONAL INDICATOR	⇨	0	BLACK	0
PROPOSED LANE DIRECTIONAL INDICATOR	➡	0	BLACK	0
ROADWAY TO BE REMOVED	▨	1	BLACK	0

SCALE: 0 50 100 150 200

COLOR FILL LEGEND

DRIVEWAYS	🟥	RED	3
PROPOSED MAIN LANE	🟪	PURPLE	141
PROPOSED SIDEWALKS	▨	YELLOW	4


2493
2813
GRESHAM
PROJECT LOCATION
FLINT
346
2868
N

VICINITY MAP
N.T.S.

PARSONS BRINCKERHOFF
16200 Park Row, Suite 200
Houston, TX 77084 TBFE # 2263

IDC
Planners-Engineers-Program Managers
11111 Wilcrest Green, Suite 250
Houston, Texas 77042

IDC INC. F-6825

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FM 2813
TO FM 346