TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
CEASON CLEMENS, P.E., DALLAS DISTRICT ENGINEER

DESIGN SCHEMATIC
SH 114
FROM EAST OF INTERNATIONAL PKWY TO
RIVERSIDE DR, DALLAS COUNTY, TEXAS

CSJ: 0353-04-111 0353-04-112
0353-04-115
0353-06-063 0353-06-067

1:00X
(Plot Vertical Scale: 1:1 Horizontal)

JUNE 2024
ROLL 7 OF 13

DESIGN SPEED	FUNCTIONAL CLASS
SPEED LIMIT	URBAN
ADT	URBAN SECTION
DHV	URBAN SECTION
SCM (AM PEAK HOUR)	URBAN SECTION
SCM (PM PEAK HOUR)	PRINCIPAL ARTERIAL (OTHER FREEWAYS AND EXPRESSWAYS)
ADT (YEAR)	
DHV (YEAR)	
% TRUCKS (DHV)	
% TRUCKS (ADT)	
% RV'S (DHV)	URBAN COLLECTOR
% RV'S (ADT)	
* TURN LANES	
* TURN LANES	
* TURN LANES

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
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1:00X
(Plot Vertical Scale:1 in Change)

JUNE 2024
ROLL 8 OF 13

(ROUTE S.T.M.U.T.)

DESIGN SPEED	FUNCTIONAL CLASS
SPEED LIMIT	SPEED LIMIT
ADT (CURRENT)	ADT (CURRENT)
ADT (20 YEAR FUTURE YEAR)	ADT (20 YEAR FUTURE YEAR)
DESIGN VEHICLE	DESIGN VEHICLE
TRUCK ADT	TRUCK ADT
TRUCK PERCENTAGE	TRUCK PERCENTAGE
DESIGN HOURLY VOLUME (DHV)	DESIGN HOURLY VOLUME (DHV)
DIRECTIONAL DISTRIBUTION	DIRECTIONAL DISTRIBUTION
% MOTOR COACHES	% MOTOR COACHES
% CITY BUSES	% CITY BUSES
% SINGLE UNIT TRUCKS	% SINGLE UNIT TRUCKS
% COMBINATION TRUCKS	% COMBINATION TRUCKS
% RECREATIONAL VEHICLES	% RECREATIONAL VEHICLES
% DAILY TRUCKS	% DAILY TRUCKS
% DAILY COMBINATION TRUCKS	% DAILY COMBINATION TRUCKS
% DAILY RECREATIONAL VEHICLES	% DAILY RECREATIONAL VEHICLES
% DESIGN HOURLY TRUCKS	% DESIGN HOURLY TRUCKS
% DESIGN HOURLY COMBINATION TRUCKS	% DESIGN HOURLY COMBINATION TRUCKS
% DESIGN HOURLY RECREATIONAL VEHICLES	% DESIGN HOURLY RECREATIONAL VEHICLES
DESIGN EXCEPTIONS	DESIGN EXCEPTIONS

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
CEASON CLEMENS, P.E., DALLAS DISTRICT ENGINEER

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0353-04-115
0353-06-063 0353-06-067

TxDOT
File Name: sheet_number to change

JUNE 2024
ROLL 9 OF 13

CRITICAL D.H. VALUES

DESIGN SPEEDS	FUNCTIONAL CLASS
20 MPH	LOCAL
25 MPH	COLLECTOR
30 MPH	MINOR ARTERIAL
35MPH (AND HIGHER)	MAJOR ARTERIAL, OPTIMUM PERFORMANCE AND EXPERIENCE
40 MPH	
45 MPH	
50 MPH	
55 MPH	
60 MPH	
65 MPH	
70 MPH	
75 MPH	
80 MPH	
85 MPH	
90 MPH	
95 MPH	
100 MPH	
105 MPH	
110 MPH	
115 MPH	
120 MPH	
125 MPH	
130 MPH	
135 MPH	
140 MPH	
145 MPH	
150 MPH	
155 MPH	
160 MPH	
165 MPH	
170 MPH	
175 MPH	
180 MPH	
185 MPH	
190 MPH	
195 MPH	
200 MPH	
205 MPH	
210 MPH	
215 MPH	
220 MPH	
225 MPH	
230 MPH	
235 MPH	
240 MPH	
245 MPH	
250 MPH	
255 MPH	
260 MPH	
265 MPH	
270 MPH	
275 MPH	
280 MPH	
285 MPH	
290 MPH	
295 MPH	
300 MPH	
305 MPH	
310 MPH	
315 MPH	
320 MPH	
325 MPH	
330 MPH	
335 MPH	
340 MPH	
345 MPH	
350 MPH	
355 MPH	
360 MPH	
365 MPH	
370 MPH	
375 MPH	
380 MPH	
385 MPH	
390 MPH	
395 MPH	
400 MPH	
405 MPH	
410 MPH	
415 MPH	
420 MPH	
425 MPH	
430 MPH	
435 MPH	
440 MPH	
445 MPH	
450 MPH	
455 MPH	
460 MPH	
465 MPH	
470 MPH	
475 MPH	
480 MPH	
485 MPH	
490 MPH	
495 MPH	
500 MPH	
505 MPH	
510 MPH	
515 MPH	
520 MPH	
525 MPH	
530 MPH	
535 MPH	
540 MPH	
545 MPH	
550 MPH	
555 MPH	
560 MPH	
565 MPH	
570 MPH	
575 MPH	
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645 MPH	
650 MPH	
655 MPH	
660 MPH	
665 MPH	
670 MPH	
675 MPH	
680 MPH	
685 MPH	
690 MPH	
695 MPH	
700 MPH	
705 MPH	
710 MPH	
715 MPH	
720 MPH	
725 MPH	
730 MPH	
735 MPH	
740 MPH	
745 MPH	
750 MPH	
755 MPH	
760 MPH	
765 MPH	
770 MPH	
775 MPH	
780 MPH	
785 MPH	
790 MPH	
795 MPH	
800 MPH	
805 MPH	
810 MPH	
815 MPH	
820 MPH	
825 MPH	
830 MPH	
835 MPH	
840 MPH	
845 MPH	
850 MPH	
855 MPH	
860 MPH	
865 MPH	
870 MPH	
875 MPH	
880 MPH	
885 MPH	
890 MPH	
895 MPH	
900 MPH	
905 MPH	
910 MPH	
915 MPH	
920 MPH	
925 MPH	
930 MPH	
935 MPH	
940 MPH	
945 MPH	
950 MPH	
955 MPH	
960 MPH	
965 MPH	
970 MPH	
975 MPH	
980 MPH	
985 MPH	
990 MPH	
995 MPH	
1000 MPH	

LOCAL STREET
MINOR COLLECTOR
MAJOR COLLECTOR
MINOR ARTERIAL / COLLECTOR
MAJOR ARTERIAL / COLLECTOR

* Operating speed on local streets

LOCATION MAP

DALLAS
FORT WORTH
SH 114
SH 121
SH 183
SH 161
SH 360
IH 20
IH 30
IH 35E
IH 35W
IH 45
IH 635
IH 820

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
CEASON CLEMENS, P.E., DALLAS DISTRICT ENGINEER

DESIGN SCHEMATIC
SH 114
FROM EAST OF INTERNATIONAL PKWY TO
RIVERSIDE DR, DALLAS COUNTY, TEXAS

CSJs 0353-04-111 0353-04-112
0353-04-115
0353-06-063 0353-06-067

TxDOT
File Name: ROLL10 of 13

JUNE 2024
ROLL 10 OF 13

CRITIC S.U.M.L.E.

DESIGN SPEED	FUNCTIONAL CLASS
50 MPH	PRINCIPAL ARTERIAL
ADT (CURRENT YEAR)	ADT (DESIGN YEAR)
NOT AVAILABLE	NOT AVAILABLE
DESIGN VEHICLE	DESIGN HOURLY VOLUME
WB-67	NOT AVAILABLE
MAJOR CROSS STREET	
N BELT LINE RD	
N O'CONNOR RD	
MAJOR CROSS STREET DESIGN	
2 LANE, 2 WAY, UNDIVIDED	
N BELT LINE RD	2 LANE, 2 WAY, UNDIVIDED
N O'CONNOR RD	2 LANE, 2 WAY, UNDIVIDED
MAJOR CROSS STREET DESIGN	
2 LANE, 2 WAY, UNDIVIDED	
N BELT LINE RD	2 LANE, 2 WAY, UNDIVIDED
N O'CONNOR RD	2 LANE, 2 WAY, UNDIVIDED
CONTROL OF ACCESS	
NONE	
WATER QUALITY	
NONE	
WETLANDS	
NONE	
PROPOSED RIGHT OF WAY	
VARIES	
* REFERENCE ABUTMENT OR PIER GUIDE	

PROJECT	DESCRIPTION

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
CEASON CLEMENS, P.E., DALLAS DISTRICT ENGINEER

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0353-04-115
0353-06-063 0353-06-067

JUNE 2024
ROLL 11 OF 13

1:00X
(Full Horizontal, Exaggerated Vertical)

(INDEX & MISC)	
DESIGN SPEEDS	FUNCTIONAL CLASS
SH 114 (MAINLANE)	(MAINLANE)
SH 114 (CROSS ROAD)	(CROSS ROAD)
MAINLANE CROSS ROAD	FUNCTIONAL INTERSECTION/INTERCHANGE EXPERIENCE
N MACARTHUR BLVD	
WALNUT HILL LN	
COLWELL BLVD	
HIDDEN RIDGE	
N O'CONNOR BLVD	
WINGREN DR	
RIVERSIDE DR	
FREEPORT PKWY	
ESTERS BLVD	
N BELT LINE RD	
MAINLANE SPLIT	GRADE SEPARATION / COLLECTOR
MAINLANE SPLIT	GRADE SEPARATION / COLLECTOR
* Separate Structure Number Required	

LOCATION MAP

DALLAS COUNTY, TEXAS

TEXAS COUNTY MAP
N.T.S.

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PLAN - N.T.S.
PROFILE - HORIZONTAL 1" = 100'
PROFILE - VERTICAL 1" = 10'
CROSS SECTION - 1" = 5'

LTRA
CEASON CLEMENS
P.E. LICENSE NO. 124
CEASON.CLEMENS@TXDOT.GOV

VERTICAL SCALE: 0 5 10 15 20
HORIZONTAL SCALE: 0 100 200 300 400

DATE SUBMITTED:
DATE APPROVED:

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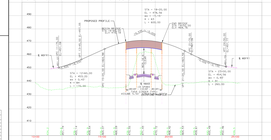
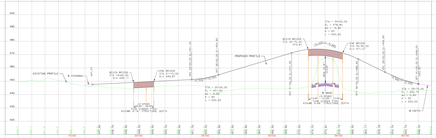
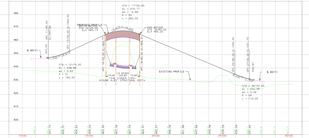
WB BYPASS RAMP AT N MACARTHUR BLVD - BYWDMAC (45 MPH)



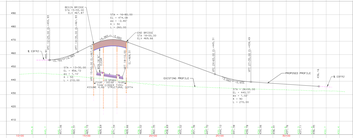
EB BYPASS RAMP AT N MACARTHUR BLVD - BYEDMAC (45 MPH)



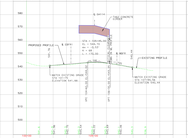
WB BYPASS RAMP AT WALNUT HILL LN - BYWDWAL (55 MPH)



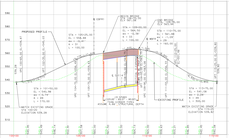
EB BYPASS RAMP AT WALNUT HILL LN - BYEDWAL (55 MPH)



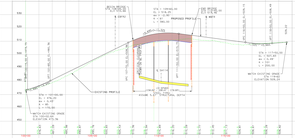
FREEPORT PKWY - FRE (35 MPH)



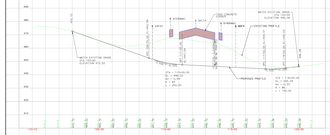
ESTERS BLVD - EST (35 MPH)



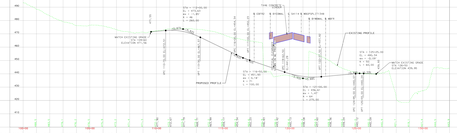
N BELT LINE RD - BEL (45 MPH)



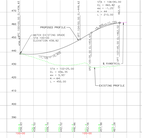
N MACARTHUR BLVD - MAC (40 MPH)



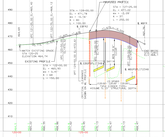
WALNUT HILL LN - WAL (40 MPH)



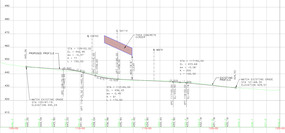
COLWELL BLVD - COL (40 MPH)



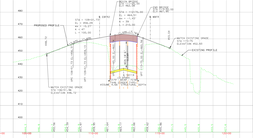
HIDDEN RIDGE - HID (35 MPH)



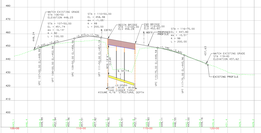
N O'CONNOR BLVD - OCO (35 MPH)



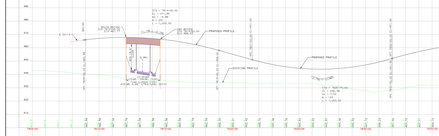
WINGREN DR - WIN (35 MPH)



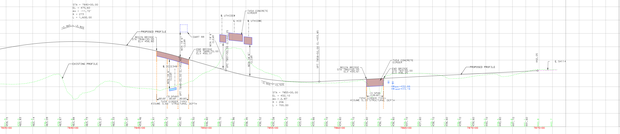
RIVERSIDE DR - RIV (35 MPH)



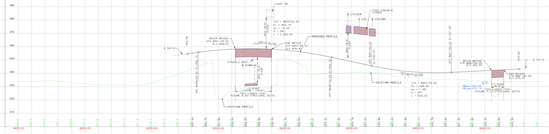
WB MAINLANE SPLIT - WBSPLIT54B (70 MPH)



WB MAINLANE SPLIT - WBSPSPLIT254B (70 MPH)



EB MAINLANE SPLIT - EBSPLIT54B (70 MPH)



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JUNE 2024
ROLL 11 OF 13

1:00X
(Full Horizontal, Exaggerated Vertical)

(INDEX & MISC)
DESIGN SPEEDS
SH 114 (MAINLANE)
SH 114 (CROSS ROAD)
MAINLANE CROSS ROAD
N MACARTHUR BLVD
WALNUT HILL LN
COLWELL BLVD
HIDDEN RIDGE
N O'CONNOR BLVD
WINGREN DR
RIVERSIDE DR
FREEPORT PKWY
ESTERS BLVD
N BELT LINE RD
MAINLANE SPLIT
MAINLANE SPLIT
* Separate Structure Number Required

LOCATION MAP

DALLAS COUNTY, TEXAS

TEXAS COUNTY MAP
N.T.S.

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PROFILE - VERTICAL 1" = 10'
CROSS SECTION - 1" = 5'

LTRA
CEASON CLEMENS
P.E. LICENSE NO. 124
CEASON.CLEMENS@TXDOT.GOV

VERTICAL SCALE: 0 5 10 15 20
HORIZONTAL SCALE: 0 100 200 300 400

DATE SUBMITTED:
DATE APPROVED:

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JUNE 2024
ROLL 12 OF 13

CRITERIA & NOTES	
DESIGN SPEEDS	FUNCTIONAL CLASS
MAINLANES	RURAL OR URBAN
TRUCK ADT	TERRAIN
DESIGN VEHICLE	DESIGN HOURLY VOLUME
HOR.CURVE DATA (MAIN)	DESIGN EXCEPTIONS
SUPERELEVATION	GEOMETRIC APPROVAL DATE(S) AND EXPERIENCE
% GRADES	
VERT.CURVE DATA (MAIN)	
SIGHT DISTANCE (MAIN)	
CLEARANCE (MAIN)	
% GRADE (RAMP)	
VERT.CURVE DATA (RAMP)	
SIGHT DISTANCE (RAMP)	
CLEARANCE (RAMP)	
LANE WIDTH	
SHOULDER WIDTH	
BRIDGE WIDTH	
HORIZ. CLEARANCE	
VERT. CLEARANCE	
DESIGN LOADING	
STRUCTURE TYPE	
FLOODING	BRIDGE APPROACH / COLLECTION
* Denotes Non-Standard Criteria	

LOCATION MAP

DALLAS
FORT WORTH
ARLINGTON
GRAND PRAIRIE
DALLAS
IRVING
COPPELL
FARMERS BRANCH
CARROLLTON
ADDISON
DALLAS NORTHWEST AIRPORT
DALLAS NORTHEAST AIRPORT
DALLAS LOVE FIELD AIRPORT
DALLAS EXECUTIVE AIRPORT
DALLAS CONVENTION CENTER
DALLAS MEDICAL DISTRICT
DALLAS FORT WORTH INTERNATIONAL AIRPORT
DALLAS FORT WORTH INTERNATIONAL AIRPORT
DALLAS FORT WORTH INTERNATIONAL AIRPOR

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1-00X
Final Footway, Subject to Change

JUNE 2024
ROLL 13 OF 13

CRITICAL D.E. ISSUES	
DESIGN SPEED:	FUNCTIONAL CLASS:
45 MPH	URBAN
SCOPE:	ENVIRONMENTAL:
SCOP CAT CONSTRC MAIN	CATEGORICAL EXCLUSION
ROADWAY:	ROW:
4 LANE DIVIDED	0 PARCELS, 0 RELOCATIONS
2 LANE FRONTAGE ROAD EXISTING	
2 LANE FRONTAGE ROAD PROPOSED