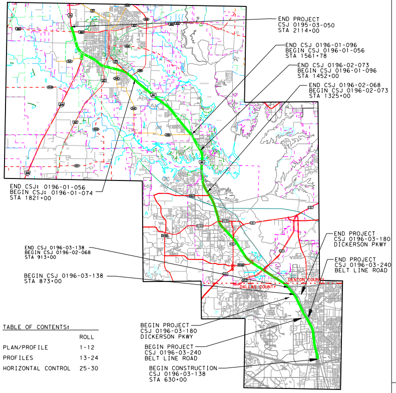
Texas Department of Transportation
DALLAS DISTRICT
DRAFT INTERIM SCHEMATIC
WILLIAM L. HALE, P.E., DISTRICT ENGINEER

IH 35E
FROM: IH 635
TO: US 380

DALLAS & DENTON COUNTY
FUNCTIONAL CLASS: URBAN FREEWAY
PROJECT LENGTH: 28.25 MILES

CSJ's:
0196-03-138
0196-03-240
0196-03-180
0196-03-245
0196-02-068
0196-02-073
0196-01-096
0196-01-056
0196-01-074
0195-03-050
0195-03-071

DESIGN SPEEDS:
MAINLANES 70 MPH
MANAGED LANES 70 MPH
RAMPS 40 MPH
TURNAROUND RAMPS 20 MPH
FRONTAGE ROADS 40 MPH
CROSS STREETS 30 MPH
COLLECTOR DISTRIBUTOR 50 MPH
DIRECT CONNECTORS 50 MPH
INTERSECTIONS 30 MPH


END PROJECT
CSJ 0195-03-050
STA 2114+00
END CSJ 0196-01-096
BEGIN CSJ 0196-01-056
STA 1561+78
END CSJ 0196-02-073
BEGIN CSJ 0196-01-096
STA 1452+00
END CSJ 0196-02-068
BEGIN CSJ 0196-02-073
STA 1325+00
END CSJ: 0196-01-056
BEGIN CSJ: 0196-01-074
STA 1821+00
END PROJECT
CSJ 0196-03-180
DICKERSON PKWY
END PROJECT
CSJ 0196-03-240
BELT LINE ROAD
END CSJ 0196-03-138
BEGIN CSJ 0196-02-068
STA 913+00
BEGIN CSJ 0196-03-138
STA 873+00
DENTON COUNTY
DALLAS COUNTY
BEGIN PROJECT
CSJ 0196-03-180
DICKERSON PKWY
BEGIN PROJECT
CSJ 0196-03-240
BELT LINE ROAD
BEGIN CONSTRUCTION
CSJ 0196-03-138
STA 630+00

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SCALE:
HORIZONTAL 1"=200'
VERTICAL 1"=20'

1/11/2013

ROLL 24 OF 30

SCHEMATIC PREPARED BY:

FOR INTERIM REVIEW ONLY
NOT FOR PERMITTING, BIDDING
OR CONSTRUCTION.
Prepared by or under the
Direct Supervision of:

NAME	P.E. NUMBER
SHAWN BRENT STOVER	109251

1/11/2013
DATE

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Plotted on: 10:17:36 AM

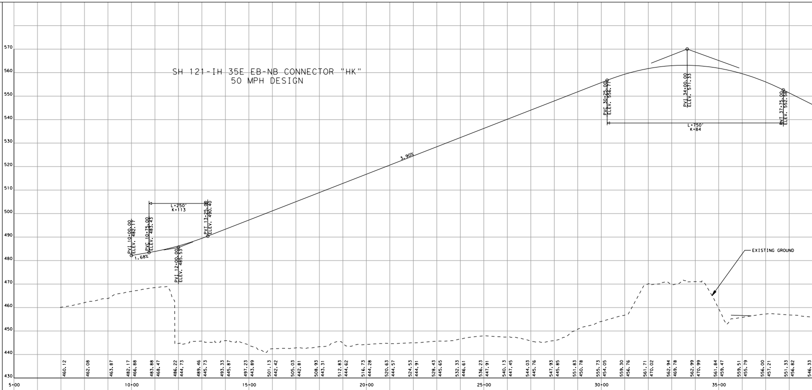
"PRELIMINARY SUBJECT TO CHANGE"
BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEWS

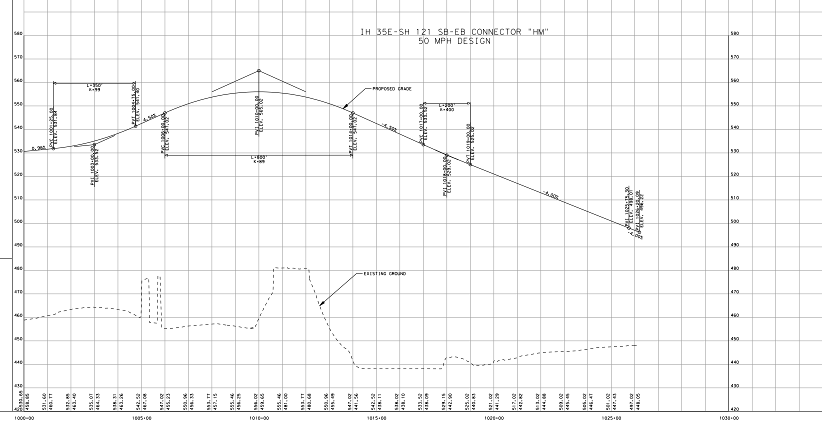
LEGEND:

🟨	GENERAL PURPOSE LANES FULL RECONSTRUCTION	- · —	EXISTING ROW
▭	REHABILITATE EXISTING PAVEMENT	- · —	PROPOSED ROW
🟥	MANAGED LANES	— - ·	PROPOSED CENTERLINE/BASELINE
🟩	FRONTAGE ROADS/CROSS STREETS	- - -	PROPOSED RETAINING WALL
🟪	COLLECTOR DISTRIBUTOR	—	PROPOSED NOISE WALL
▭	RAMPS/DIRECT CONNECTORS	—ılı—	CONTROL OF ACCESS
🟧	BRIDGES	▨	PAVEMENT REMOVAL
🟦	SHARED USE PATH	←③	NUMBER OF LANES (TRAFFIC DIRECTION)
		▨	POTENTIAL DISPLACEMENT
		●	PROPOSED GANTRY

NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS DATED FEBRUARY 9, 2006 AND RECORD PLANS.
2. THE PROPOSED LOCATIONS OF THE ADA RAMPS AND SIDEWALKS INDICATED ON THIS PLAN ARE PRELIMINARY. THE EXACT LOCATIONS OF THESE SIDEWALKS WILL BE DETERMINED DURING THE PS&E DESIGN THROUGH COORDINATION BETWEEN TXDOT AND LOCAL GOVERNMENTS. THE FRONTAGE ROAD TYPICAL SECTION RESERVES A 6' WIDE CORRIDOR ADJACENT TO THE OUTSIDE CURB FOR FUTURE SIDEWALK LOCATIONS.
3. EXISTING DRIVEWAY LOCATIONS ARE NOT SHOWN IN PLAN. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN AND COORDINATION WITH THE CITIES; THE DRIVEWAY WILL BE A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS AS SHOWN.
4. ACCESS DENIAL LIMITS ARE DETERMINED BY PROVIDING SAFETY TO THE TRAVELING PUBLIC, MAINTAINING LEVEL OF SERVICE ON THE FRONTAGE ROADS AND MAINTAINING SAFE ACCESS TO ADJACENT PROPERTY OWNERS. ACCESS DENIAL LIMITS MAY BE ADJUSTED BY PROVIDING TRAFFIC IMPACT ANALYSIS (TIA) BY THE ADJACENT PROPERTY OWNERS AND AVOIDING LANDLOCK ISSUES AS LONG AS THE SAFETY TO THE TRAVELING PUBLIC IS NOT COMPROMISED.
5. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
6. SUPER ELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
7. CURBS ON FRONTAGE ROADS AND CROSS STREETS ARE TYPE II UNLESS NOTED OTHERWISE.


SH 121-IH 35E EB-NB CONNECTOR "HK"
50 MPH DESIGN
PVI 10+00.00 ELEV. 482.17
PVC 10+75.00 ELEV. 483.43
L=250'
K=113
PVT 13+25.00 ELEV. 490.40
PVI 12+00.00 ELEV. 485.53
1.68%
3.90%
PVC 30+25.00 ELEV. 556.71
PVI 34+00.00 ELEV. 571.33
PVT 37+75.00 ELEV. 552.58
L=750'
K=84
EXISTING GROUND
570
560
550
540
530
520
510
500
490
480
470
460
450
440
430
460.12
462.08
463.87
482.17 466.88
483.88 468.47
486.22 444.73
489.46 445.73
493.33 445.87
497.23 443.89
501.13 442.42
505.03 442.81
508.93 443.31
512.83 444.62
516.73 444.28
520.63 444.57
524.53 444.91
528.43 445.65
532.33 446.61
536.23 447.91
540.13 447.45
544.03 445.76
547.93 445.85
551.83 450.78
555.73 454.05
559.30 456.76
561.71 470.02
562.94 469.78
562.99 470.99
561.84 459.47
559.51 455.79
556.00 457.21
551.33 456.82
546.33
5+00
10+00
15+00
20+00
25+00
30+00
35+00


IH 35E-SH 121 SB-EB CONNECTOR "HM"
50 MPH DESIGN
L=350'
K=99
PVC 1001+25.00 ELEV. 531.84
PVI 1003+00.00 ELEV. 533.52
PVI 1004+75.00 ELEV. 541.40
0.96%
4.50%
PVC 1006+00.00 ELEV. 547.02
PVI 1010+00.00 ELEV. 565.02
PVT 1014+00.00 ELEV. 547.02
L=800'
K=89
PROPOSED GRADE
-4.50%
L=200'
K=400
PVC 1017+00.00 ELEV. 533.52
PVI 1018+00.00 ELEV. 529.02
PVT 1019+00.00 ELEV. 525.02
-4.00%
PVI 1025+75.30 ELEV. 498.01
PVI 1026+20.09 ELEV. 496.22
-4.00%
EXISTING GROUND
580
570
560
550
540
530
520
510
500
490
480
470
460
450
440
430
420
530.65 458.85
531.60 460.77
532.85 463.40
535.07 464.33
538.31 463.26
542.52 467.08
547.02 455.23
550.96 456.33
553.77 457.15
555.46 456.25
556.02 459.65
555.46 481.00
553.77 480.68
550.96 455.49
547.02 441.56
542.52 438.11
538.02 438.10
533.52 438.09
529.15 442.90
525.02 440.83
521.02 441.29
517.02 442.82
513.02 444.88
509.02 445.45
505.02 446.47
501.02 447.43
497.02 448.05
1000+00
1005+00
1010+00
1015+00
1020+00
1025+00
1030+00

8. DIMENSIONS ARE TO FACE OF CURB OR TO THE EDGE OF UNCURBED PAVEMENT UNLESS NOTED OTHERWISE.

9. PROPOSED CROSS STREET SECTIONS ARE BASED ON CITY THOROUGHFARE PLANS.

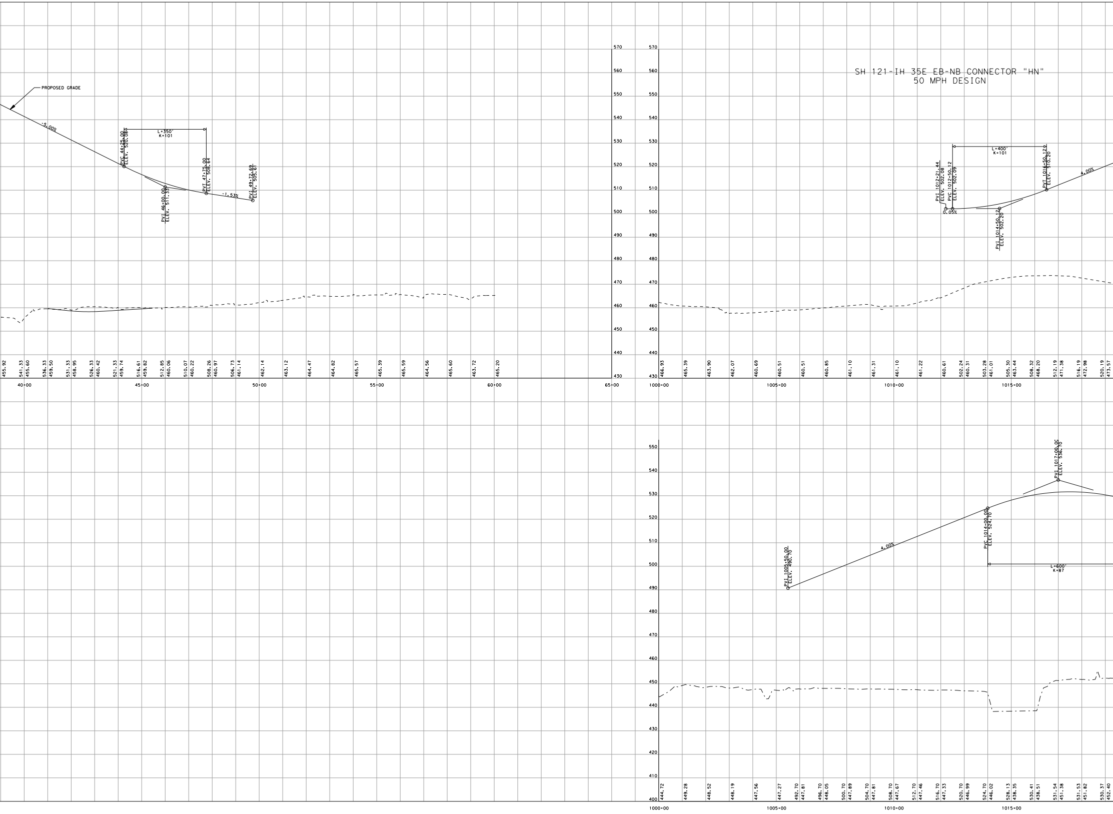
10. TYPICAL CROSS STREET TURNOUT RADIUS EQUALS 75' TYPICAL, 50' MIN. UNLESS NOTED OTHERWISE.

11. RAMP HORIZONTAL CURVATURE BETWEEN PHYSICAL GORES IS SHOWN IN TABLE. TYPICAL FRONTAGE ROAD GORES UTILIZE A MINIMUM 3000' RADIUS. TYPICAL MAINLANE GORES UTILIZE A MINIMUM RADIUS OF 3000'. VARIATIONS FROM TYPICAL RADIUS' ARE NECESSARY IN LOCATIONS WITH OPERATIONAL WEAVING CONSTRAINTS OR WHEN THE RAMP GORE IS LOCATED WITHIN A HORIZONTAL CURVE ON THE CONTROLLING ROADWAY.

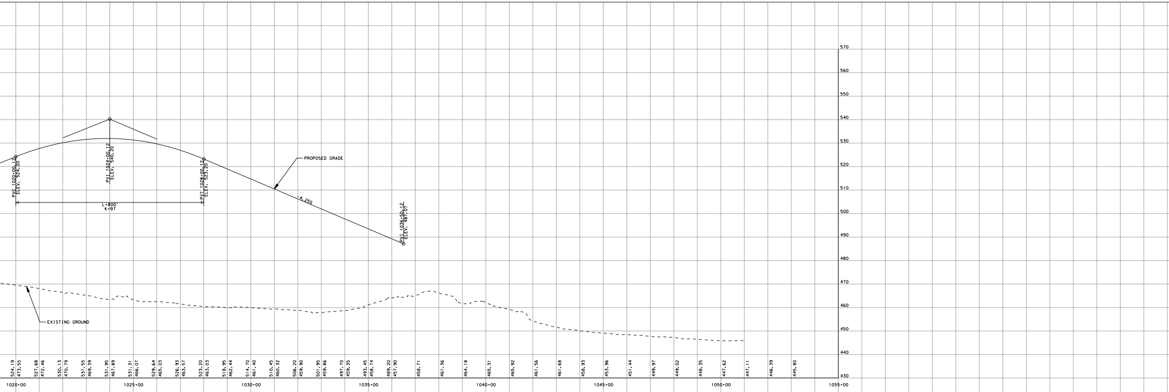
12. PROPOSED CULVERT SIZES SHOWN IN THE SCHEMATIC ARE SIZED BASED ON PRELIMINARY DRAINAGE ANALYSIS OF UPSTREAM DRAINAGE AREAS. A DETAILED DRAINAGE STUDY WILL BE PERFORMED PRIOR TO CONSTRUCTION TO FINALIZE THE PROPOSED CULVERT SIZES AND DESIGN. COORDINATION BETWEEN TXDOT, LOCAL GOVERNMENTS, AND ADJACENT PROPERTY OWNERS WILL BE PERFORMED DURING THIS DETAILED DESIGN PHASE. FOR PROPOSED CULVERTS THAT CONNECT TO EXISTING, ENCLOSED DOWNSTREAM DRAINAGE SYSTEMS LOCATED OFF OF TXDOT ROW; THE DETAILED DESIGN PHASE AND COORDINATION EFFORT WILL DETERMINE IF DOWNSTREAM ENCLOSED DRAINAGE SYSTEMS WILL BE IMPROVED AND IF ANY DRAINAGE EASEMENTS WILL NEED TO BE OBTAINED BY THE LOCAL GOVERNMENTS FOR IMPROVEMENT OF THESE SYSTEMS.

13. RAILROAD ALIGNMENTS AND PROFILES ARE SHOWN FOR REFERENCE ONLY IN DEVELOPING ROADWAY PROFILES. FINAL ALIGNMENTS AND PROFILES WILL BE DEVELOPED THROUGH COORDINATION WITH THE RAILROADS, TXDOT AND THE LOCAL GOVERNMENTS.

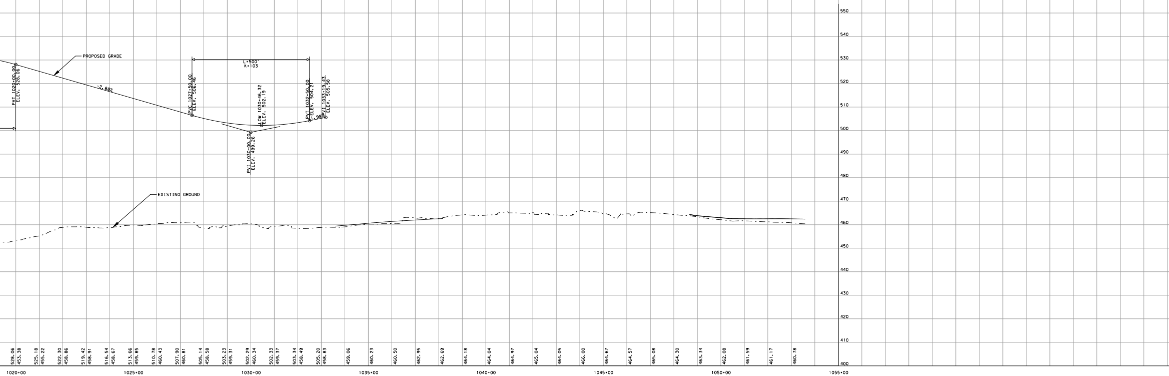
SH 121-IH 35E EB-NB CONNECTOR "HN"
50 MPH DESIGN



PROPOSED GRADE
-5.00%
PVC 44+25.00
ELEV. 520.08
L=350'
K=101
PVI 46+00.00
ELEV. 511.33
PVT 47+75.00
ELEV. 508.64
-1.53%
PVI 49+72.69
ELEV. 505.61
570
560
550
540
530
520
510
500
490
480
470
460
450
440
430
455.92
541.33
455.60
536.33
459.50
531.33
458.95
526.33
460.42
521.33
459.74
516.61
459.82
512.85
460.06
510.07
460.22
508.26
460.97
506.73
461.14
462.14
463.12
464.47
464.82
465.57
465.39
465.59
464.56
465.60
463.72
465.20
40+00
45+00
50+00
55+00
60+00
65+00
PVI 1012+21.44
ELEV. 502.08
PVC 1012+50.12
ELEV. 502.09
0.05%
L=400'
K=101
PVI 1014+50.12
ELEV. 502.20
PVT 1016+50.12
ELEV. 510.20
4.00%
466.93
465.39
463.90
462.07
460.69
460.51
460.51
460.85
461.10
461.31
461.10
461.22
460.61
502.24
460.31
503.28
461.01
505.30
463.44
508.32
468.20
512.19
471.38
516.19
472.98
520.19
473.57
1000+00
1005+00
1010+00
1015+00
PVI 1005+50.00
ELEV. 490.70
4.00%
PVC 1014+00.00
ELEV. 524.70
L=600'
K=87
PVI 1017+00.00
ELEV. 536.70
550
540
530
520
510
500
490
480
470
460
450
440
430
420
410
400
444.72
449.28
448.52
448.19
447.56
447.27
492.70
447.81
496.70
448.05
500.70
447.89
504.70
447.81
508.70
447.67
512.70
447.46
516.70
447.33
520.70
446.99
524.70
446.02
528.13
438.35
530.41
438.51
531.54
451.38
531.53
451.82
530.37
452.40
1000+00
1005+00
1010+00
1015+00


PVC 1020+00.12
ELEV. 524.20
PVI 1024+00.12
ELEV. 540.20
PVT 1028+00.12
ELEV. 523.20
L=800'
K=97
PROPOSED GRADE
-4.25%
PVI 1036+50.12
ELEV. 487.07
EXISTING GROUND
570
560
550
540
530
520
510
500
490
480
470
460
450
440
430
524.19
473.55
527.68
472.46
530.13
470.79
531.55
469.39
531.95
467.89
531.31
466.07
529.64
465.03
526.93
463.57
523.20
463.03
518.95
462.44
514.70
461.40
510.45
460.32
506.20
459.90
501.95
459.86
497.70
459.35
493.45
458.74
489.20
457.90
458.71
461.36
464.18
465.31
465.92
461.56
461.68
458.93
453.96
451.44
449.97
449.02
448.35
447.62
447.11
446.39
445.80
1020+00
1025+00
1030+00
1035+00
1040+00
1045+00
1050+00
1055+00

IH 35E-SH 121 SB-EB CONNECTOR "HP"
50 MPH DESIGN


PROPOSED GRADE
PVT 1020+00.00
ELEV. 528.06
-2.88%
L=500'
K=103
PVC 1027+50.00
ELEV. 506.46
LOW 1030+46.32
ELEV. 502.19
PVI 1030+00.00
ELEV. 499.26
PVT 1032+50.00
ELEV. 504.21
1.98%
PVI 1033+19.43
ELEV. 505.58
EXISTING GROUND
550
540
530
520
510
500
490
480
470
460
450
440
430
420
410
400
528.06
453.38
525.18
455.22
522.30
458.86
519.42
458.91
516.54
458.67
513.66
459.85
510.78
460.43
507.90
460.81
505.14
458.58
503.23
459.31
502.29
460.34
502.33
459.37
503.34
458.49
505.20
458.83
459.06
460.23
460.50
462.95
462.69
464.18
464.04
464.97
465.04
464.05
466.00
464.67
464.57
465.08
464.30
463.34
462.08
461.59
461.17
460.78
1020+00
1025+00
1030+00
1035+00
1040+00
1045+00
1050+00
1055+00

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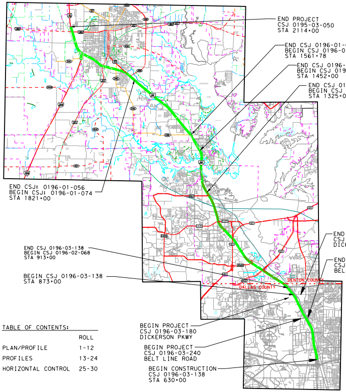
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STA 630+00

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