

CURVE #1
 $\Delta = 3^{\circ}-45'-55.2''$ RT.
 $D_c = 1^{\circ}-00'-00.0''$
 $R = 5,729.58'$
 $T = 188.33'$
 $L = 376.53'$
 $E = 3.09'$
 $SE = NC$

CURVE #3
 $\Delta = 22^{\circ}-32'-40.4''$ LT.
 $D_c = 10^{\circ}-54'-48.5''$
 $R = 525.00'$
 $T = 104.64'$
 $L = 206.58'$
 $E = 10.33'$
 $SE = 6.0\%$

CURVE #2
 $\Delta = 6^{\circ}-03'-14.6''$ RT.
 $D_c = 3^{\circ}-58'-14.9''$
 $R = 1,442.93'$
 $T = 76.30'$
 $L = 52.46'$
 $E = 2.02'$
 $SE = 4.0\%$

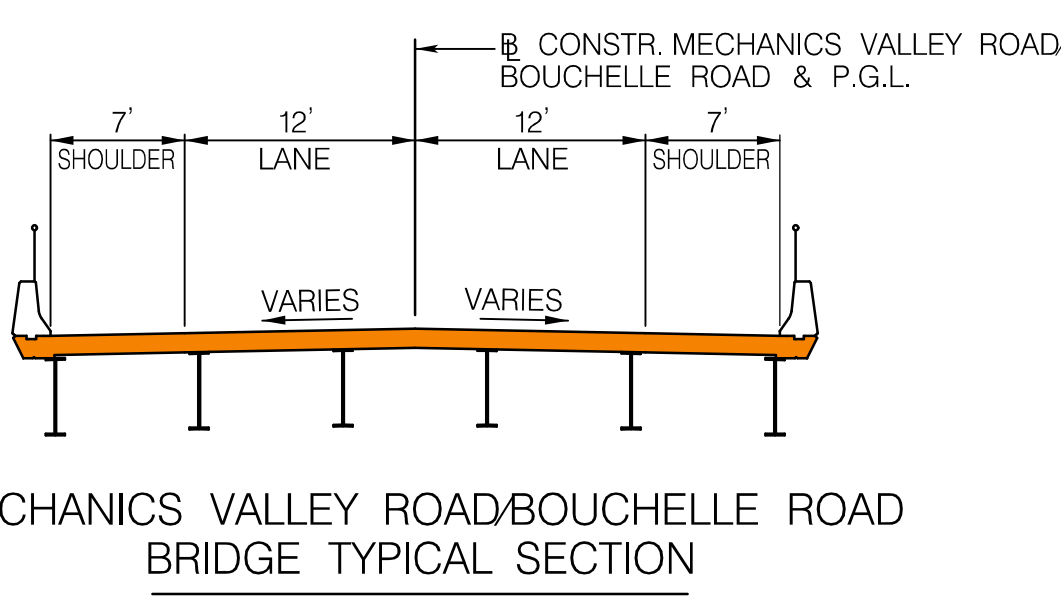
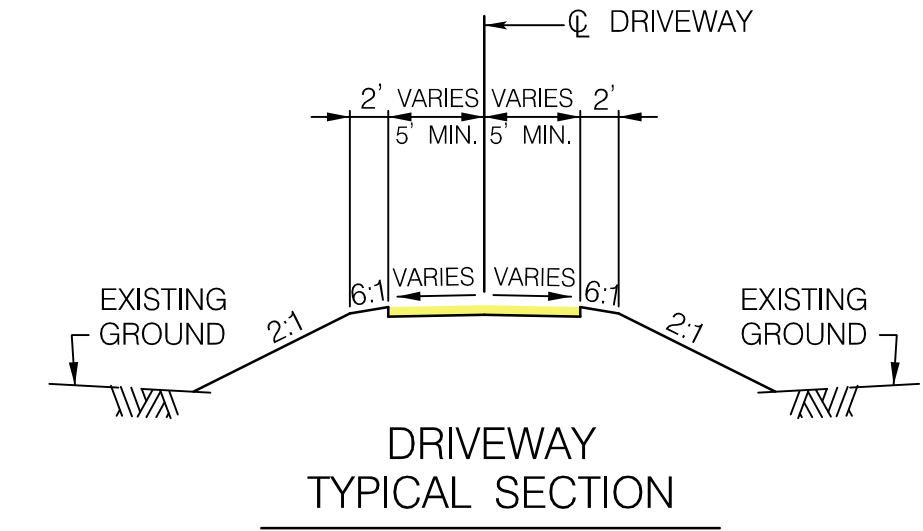
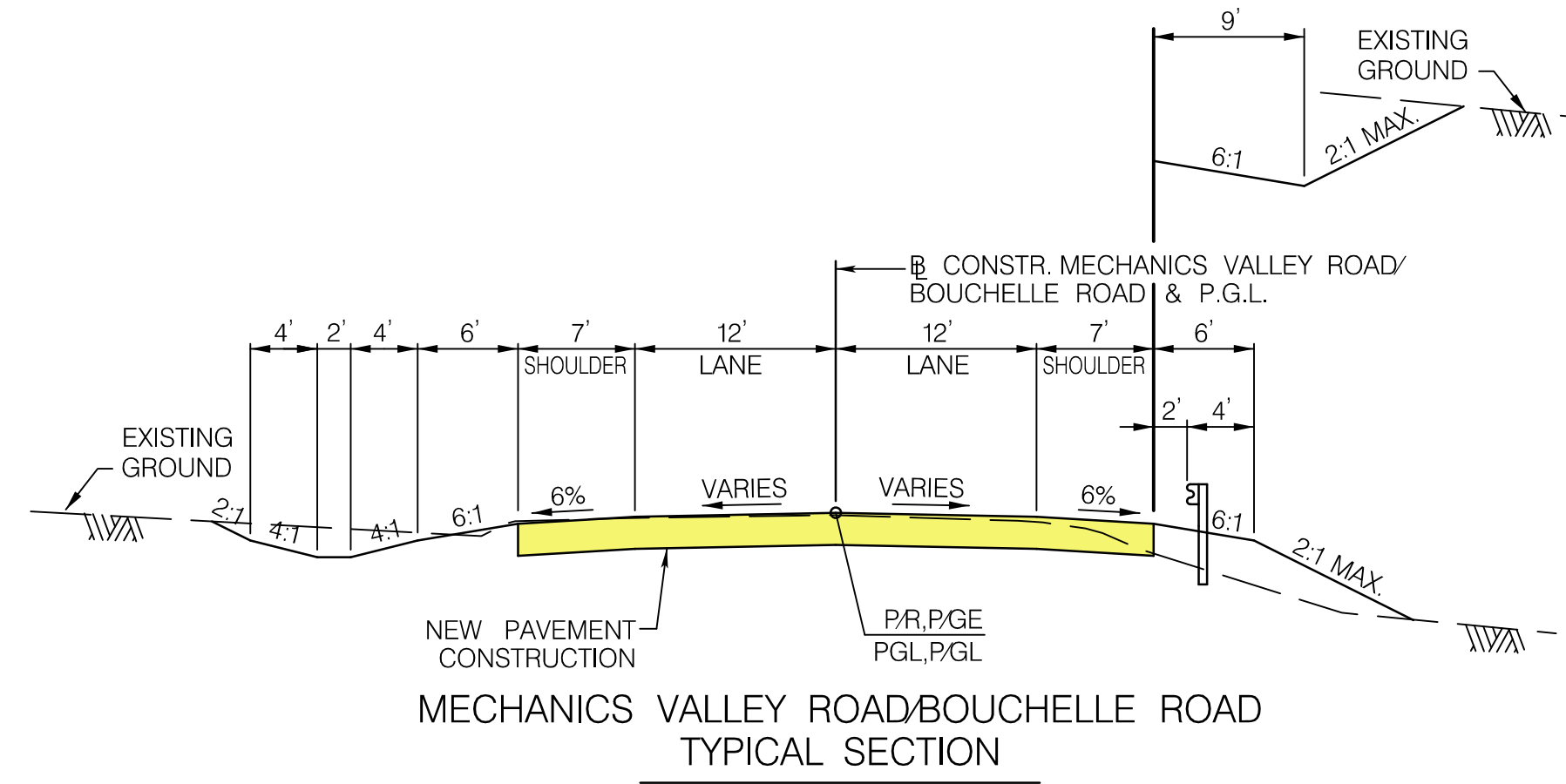
CURVE #4
 $\Delta = 31^{\circ}-57'-30.4''$ LT.
 $D_c = 10^{\circ}-54'-48.5''$
 $R = 525.00'$
 $T = 150.34'$
 $L = 292.83'$
 $E = 21.10'$
 $SE = 6.0\%$

CURVE #6
 $\Delta = 2^{\circ}-17'-03.1''$ LT.
 $D_c = 0^{\circ}-16'-57.3''$
 $R = 20,275.00'$
 $T = 404.20'$
 $L = 808.30'$
 $E = 4.03'$
 $SE = NC$

CURVE #5
 $\Delta = 17^{\circ}-36'-51.3''$ RT.
 $D_c = 10^{\circ}-54'-48.5''$
 $R = 525.00'$
 $T = 81.34'$
 $L = 161.40'$
 $E = 6.26'$
 $SE = 4.0\%$

CURVE #7
 $\Delta = 36^{\circ}-26'-39.7''$ LT.
 $D_c = 10^{\circ}-54'-48.5''$
 $R = 525.00'$
 $T = 172.84'$
 $L = 333.94'$
 $E = 27.72'$
 $SE = 6.0\%$

CURVE #8
 $\Delta = 0^{\circ}-52'-16.6''$ RT.
 $D_c = 0^{\circ}-34'-22.6''$
 $R = 40,000.00'$
 $T = 76.03'$
 $L = 152.07'$
 $E = 0.29'$
 $SE = NC$



DESIGN PARAMETERS
 DESIGN SPEED = 40 MPH
 SE MAX = 6%
 AASHTO STOPPING SIGHT DISTANCE = 305'
 DESIGN STOPPING SIGHT DISTANCE = 309'
 AASHTO INTERSECTION RIGHT TURN SIGHT DISTANCE = 385'
 AASHTO INTERSECTION LEFT TURN SIGHT DISTANCE = 445'
 EXISTING INTERSECTION SIGHT DISTANCE = 243' (VERTICAL CONTROLS)
 PROPOSED INTERSECTION RIGHT & LEFT TURN SIGHT DISTANCE = 352'
 EXISTING VERTICAL DESIGN SPEED = 30 MPH
 (EX. K=18.75 - AASHTO K=19 FOR 30 MPH)
 DESIGN VERTICAL BRIDGE UNDER CLEARANCE = 23.0'
 DESIGN BRIDGE STRUCTURE DEPTH = 5.0'

- LEGEND**
- FULL DEPTH
 - BRIDGE
 - RESURFACING, WEDGE AND LEVEL
 - PAVEMENT REMOVAL
 - LOD - LIMIT OF DISTURBANCE
 - POTENTIAL SWM AREA
 - WUS - WATERS OF THE US
 - WALL

**REPLACEMENT OF CECIL COUNTY
 BRIDGE CE0042,
 MECHANICS VALLEY ROAD
 OVER CSX
 ALIGNMENT OPTION 3 - 40 MPH**

