

WOOD GUARD RAIL REQUIRED
 LEFT
 STA 146+57 TO STA 147+21 - LENGTH 64 FT
 RIGHT
 STA 142+30 TO STA 142+62 - LENGTH 32 FT
 " 146+57 " 146+91 " 34 "
 TOTAL FOR SHEET - 112 FT

CABLE GUARD RAIL REQUIRED
 LEFT
 STA 141+50 TO STA 143+55 - LENGTH 205 FT
 " 143+40 " 150+00 " 160 "
 TOTAL FOR SHEET - 400 FT

NEW CULVERTS REQUIRED
 STA 142+90 - 2'x2' CONCRETE BOX CULVERT
 Concrete Class A (-2-A) - 117 cu yds
 Reinforcing Steel - 763 lbs

STA 146+50 - 15" REINF CONCRETE PIPE 34' LONG
 Concrete Class B (-2-B) - 23 cu yds
 Reinforcing Steel - 33 lbs

STA 150+00 - 15" REINF CONCRETE PIPE 30' LONG
 Concrete Class B (-2-B) - 19 cu yds
 Reinforcing Steel - 33 lbs

PRO. NO.	DATE	BY	CHECKED	SCALE
037-16	05/27/11	WJ	WJ	1" = 40'

REVISED CURVE
 $\Delta = 11^{\circ}21'$
 $D = 4^{\circ}$
 $R = 1432.5$
 $T = 142.3$
 $L = 223.7$
 $E = 7.2$

