



REMOVAL AND DISPOSAL OF EXISTING GUARD RAIL
 RTE 117 STA 12+00 - RTE 117 STA 23+00 RT

GUARD RAIL STD. STEEL BEAM W/ WOOD POSTS TYPE II
 RTE 117 STA 11+25 - RTE 117 STA 19+00 RT
 RTE 117 STA 21+25 - RTE 117 STA 23+00 RT

SCARIFYING EXISTING PAVEMENT
 RTE 117 STA 6+50 - RTE 117 STA 10+00
 RTE 117 STA 21+00 - RTE 117 STA 23+00

EXCAVATION AND REMOVAL OF ROAD SURFACES AND PAVEMENTS
 SEED AND MULCH EXISTING RTE 117
 RTE 117 STA 20+75 - RTE 117 STA 23+00 RT

CONSTRUCT DRIVE
 RTE 117 STA 7+80 LT.

4' HIGH WOVEN WIRE FENCE
 RAMP D STA 17+00 - RAMP D STA 21+00, 105' RT

END LIMITED ACCESS
 RTE 117 14+50 70' LT

RAMP D STA 21+44 RT TO STA 22+58 RT
 CONSTRUCT SPECIAL STREAM DIVERSION DITCH AND OUTLET PAD
 5' BOTTOM WIDTH 2:1 SIDE SLOPES
 TYPE II STONE FILL

CURVE D-2 DATA
 D = 18°43'26.80"
 R = 306'
 Δ = 41°19'18.78"
 L = 220.69'
 T = 115.39'

RAMP D STA 17+45 RT TO RAMP C STA 6+25 LT
 NEW 18" x 93' RCP CLASS III

PI CURVE D-2
 STA 19+10.34 BACK = STA 19+00.25 AHEAD

CURVE D-3 DATA
 D = 38°11'49.87"
 R = 150'
 Δ = 82°35'32.60"
 L = 216.23'
 T = 131.76'

RAMP D STA 22+28 RT TO STA 22+28 RT
 NEW 18" x 30' CSP WITH METAL END SECTION

RAMP D STA 20+00 RT TO STA 21+50 RT
 NEW 6" x 150' UNDERDRAIN WITH FLUSHING BASIN @ STA 20+00 RT AND CRM HEADWALL @ STA 21+50 RT

RAMP C STA 0+00 TO STA 6+40 RT
 NEW 6" x 640' UNDERDRAIN W/ FLUSHING BASIN @ STA 6+40

RAMP D STA 21+62 EXISTING 18" x 48' CGMP (REMOVE)

PI CURVE D-3
 STA 22+36.05 BACK = STA 21+88.76 AHEAD
 PI CURVE IB
 STA 19+87.09 BACK = STA 19+80.95 AHEAD

CURVE C-1 DATA
 D = 22°55'05.92"
 R = 250'
 Δ = 181°12'33.35"
 L = 790.68'

STA 20+07 LT TO STA 20+33 LT
 NEW 18" x 49' RCP CLASS III

STA 20+33 LT TO STA 21+00 LT
 NEW 18" x 65' RCP CLASS III

RAMP C STA 0+50 RT TO STA 22+00 LT
 NEW 18" x 54' RCP CLASS III

STA 22+00 LT TO STA 22+00 LT
 NEW 18" x 34' RCP CLASS III

SPIRAL DATA CURVE IA RTE 117
 D = 6°00'
 Gs = 4.5°
 p = 0.98'
 K = 74.99'
 X = 149.91'
 Y = 3.93'
 LT = 100.03'
 ST = 50.03'
 Lc = 149.96'

CURVE IA DATA RTE 117
 D = 6°00'
 R = 954.93'
 Δ = 32°57'18.46"
 Δc = 28°27'18.46"
 T = 242.12'
 Ts = 355.93'
 Es = 41.41'
 L = 474.25'
 Ls = 150'

STA 9+78 RT
 CONSTRUCT NEW DITCH 6' BOTTOM WIDTH
 2:1 SIDE SLOPES
 TYPE II STONE FILL

RAMP D STA 22+58 RT TO STA 18+75 RT
 NEW 48" x 126' RCP CLASS III

STA 18+75 RT
 CONSTRUCT NEW DITCH 6' BOTTOM WIDTH
 1.5:1 SIDE SLOPES
 TYPE II STONE FILL

STA 18+83 RT TO STA 19+00 LT
 NEW 18" x 61' RCP CLASS III

BREAKAWAY CABLE TERMINAL FOR GUARD RAIL
 STEEL BEAM W/ WOOD POSTS, TYPE II (SEE STD. G-14)

STA 19+00 LT TO STA 19+45 LT
 NEW 18" x 43' RCP CLASS III

STA 19+40 LT TO STA 19+72 LT
 EXISTING 12" x 32' CGMP (REMOVE)

STA 19+45 LT TO STA 20+33 LT
 NEW 18" x 88' RCP CLASS III

BREAKAWAY CABLE TERMINAL FOR GUARD RAIL
 STEEL BEAM W/ WOOD POSTS, TYPE II (SEE STD. G-14)

ADJUST SANITARY MH TO GRADE

SPIRAL DATA CURVE IB RTE 117
 D = 5°30'
 Gs = 4.125°
 p = 0.90'
 K = 74.99'
 X = 149.92'
 Y = 3.60'
 LT = 100.03'
 ST = 50.03'
 Lc = 149.97'

CURVE IB DATA RTE 117
 D = 5°30'
 R = 1041.74'
 Δ = 23°20'11.38"
 Δc = 19°12'41.38"
 T = 176.30'
 Ts = 288.03'
 Es = 22.44'
 L = 349.30'
 Ls = 150'

NOTE:
 FOR CURB TIES AT RAMP ISLANDS AND ROUTE 117 ISLANDS SEE GRADING PLANS.

NOTE:
 ALL STATIONS AND OFFSETS ON THIS SHEET ARE REFERENCED TO THE ROUTE 117 BASELINE UNLESS OTHERWISE NOTED.

RAYMOND & RAYMOND

R.O.W. PLANS

DATUM
 VERTICAL _____
 HORIZONTAL _____

SURVEYED BY PINKHAM ENG. DATE 6/86
 DRAWN BY P.S.J. DATE 7/87
 TRACED BY N.P.D. DATE 8/87
 VERMONT ROUTE 289 (F.A.P.)
 TOWN OF ESSEX
 PROJ. WILLISTON-COLCHESTER NO. PB 033-1(1)
 SHEET 18 OF 31