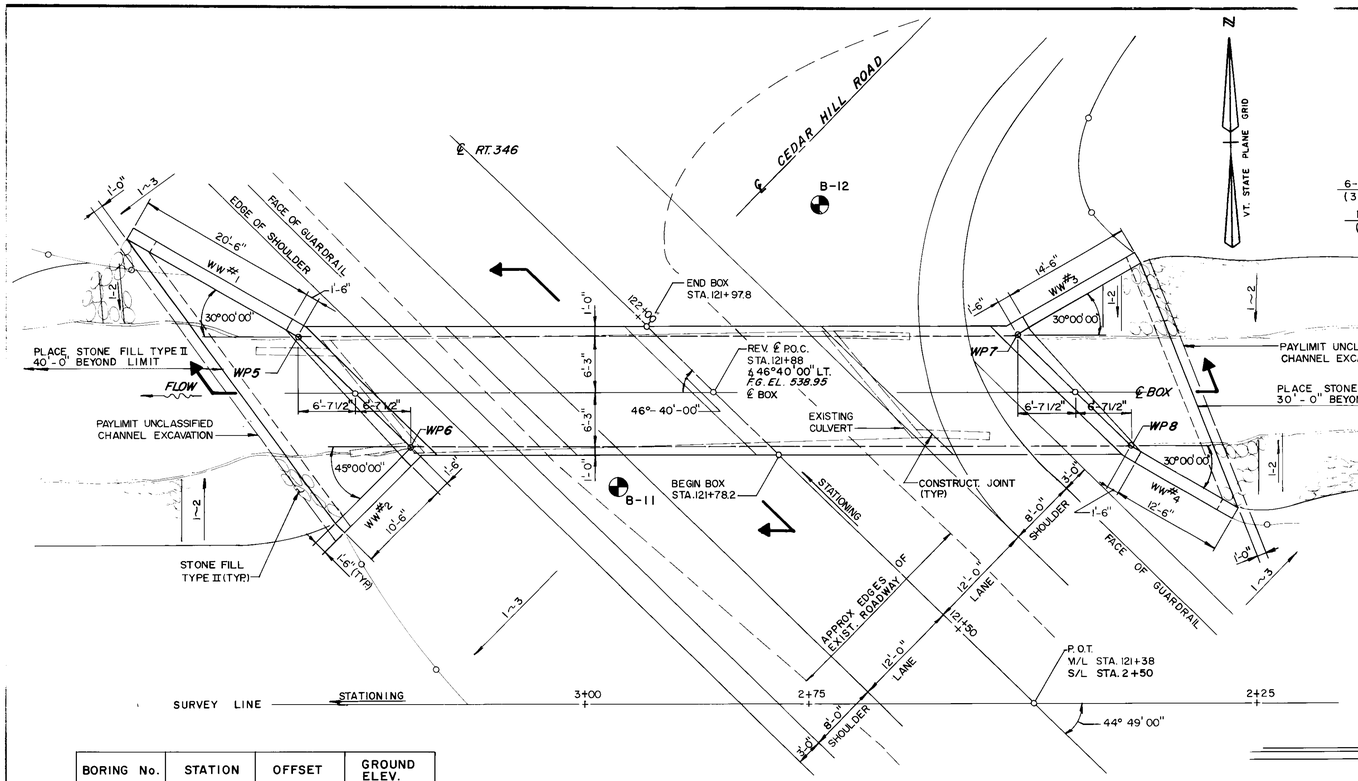
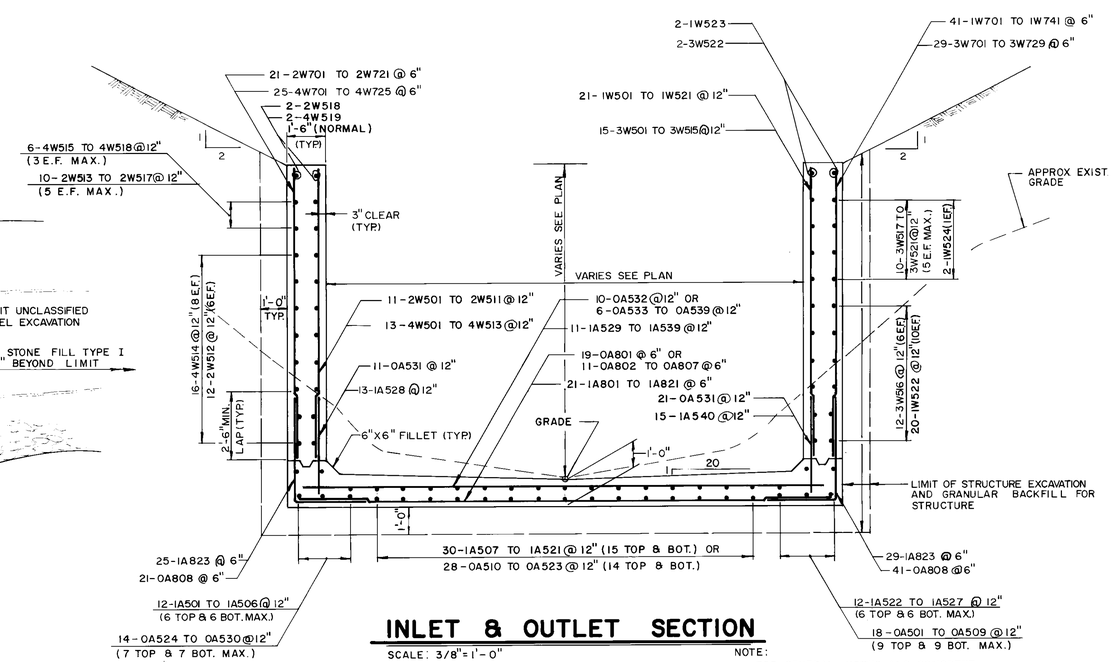


BORING No.	STATION	OFFSET	GROUND ELEV.
B-11	121+88	15' LT	537.0 ±
B-12	121+95	23' RT	538.0 ±

FOR BORINGS SEE SHEET 135

PLAN

SCALE: 1/8" = 1'-0"



INLET & OUTLET SECTION

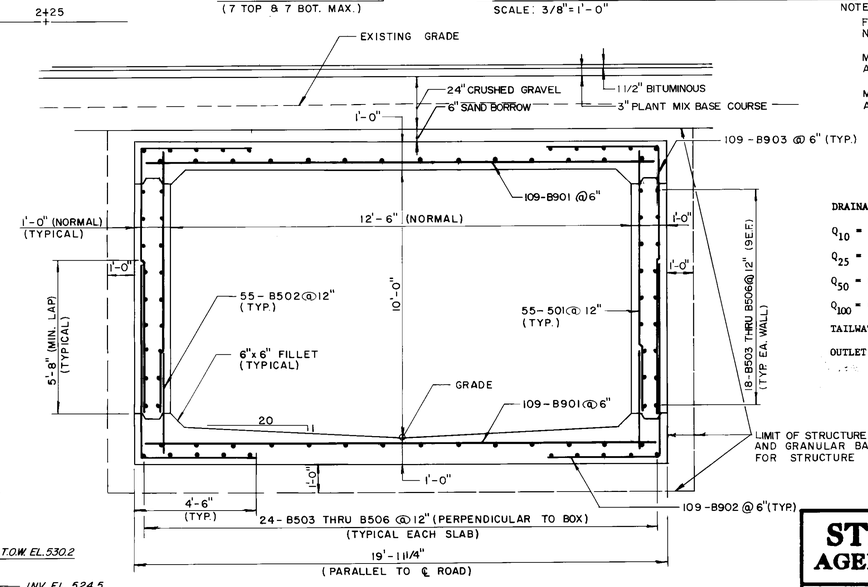
SCALE: 3/8" = 1'-0"

NOTE:

FOR GENERAL NOTES AND CONCRETE NOTES SEE BRIDGE 4 SHEET 117

MARK NUMBERS BEGINNING WITH "1A, 3W, 4W" ARE AT THE INLET SECTION.

MARK NUMBERS BEGINNING WITH "0A, 1W, 2W" ARE AT THE OUTLET SECTION.



CULVERT SECTION

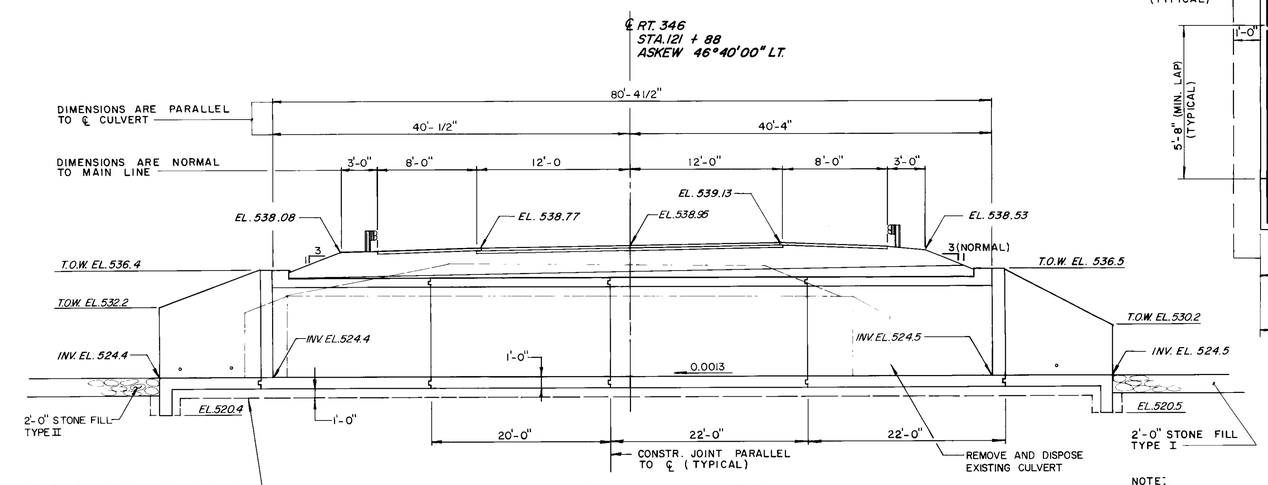
SCALE: 3/8" = 1'-0"

HYDRAULIC DATA

DRAINAGE AREA = 4.70 SQ.MI.	DESIGN FLOW Q 50
Q_{10} = 712 C.F.S.	Q_{10} HEADWATER ELEVATION = 532.60
Q_{25} = 916 C.F.S.	Q_{25} HEADWATER ELEVATION = 533.95
Q_{50} = 1109 C.F.S.	Q_{50} HEADWATER ELEVATION = 535.14
Q_{100} = 1282 C.F.S.	Q_{100} HEADWATER ELEVATION = 536.15

TAILWATER DEPTH AT Q 50 = 7.87 FEET, ELEVATION 532.27

OUTLET VELOCITY AT Q 50 = 11.27 FEET PER SECOND



LONGITUDINAL SECTION

SCALE: 1/8" = 1'-0"

NOTE:

POUR SEQUENCE - BOX SHOULD BE POURED IN ALTERNATE SECTIONS WITH A MINIMUM OF 72 HOURS BETWEEN ADJACENT SECTIONS

PAPE ENGINEERING CORPORATION
Engineers Planners Landscape Architects
R. Rockstone Valley Place Lincoln RI 02865
401 334 4100

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of POWNAL	Bridge No. 5
Highway No. ROUTE 346	Log Sta. / Surv. Sta. 121+88
12'-6" x 10'-0" CONCRETE BOX CULVERT	
PLAN and SECTIONS	
Designed By R.T.P.	Drawn By K.B.
Checked By P.D.M Date 2-10-87	Bridge Design Supervisor Date
PROJECT POWNAL	PROJECT NO. RS0107 (7)
L.G.C. Info.	
Bridge Sheet No. BR 500	Sheet 123 of 319