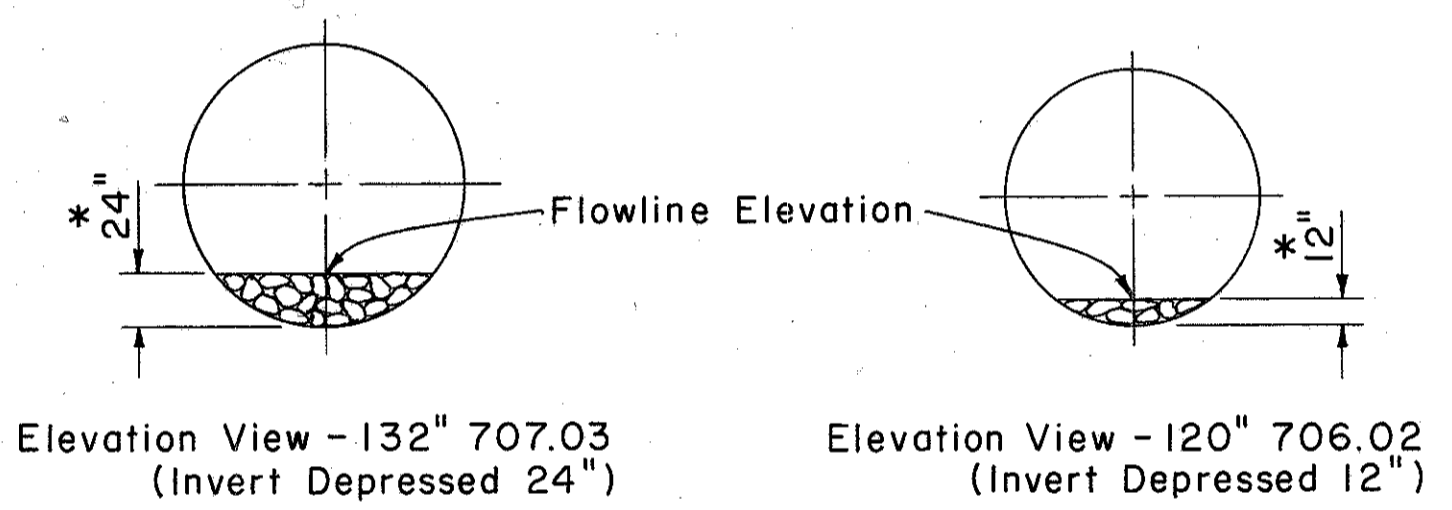
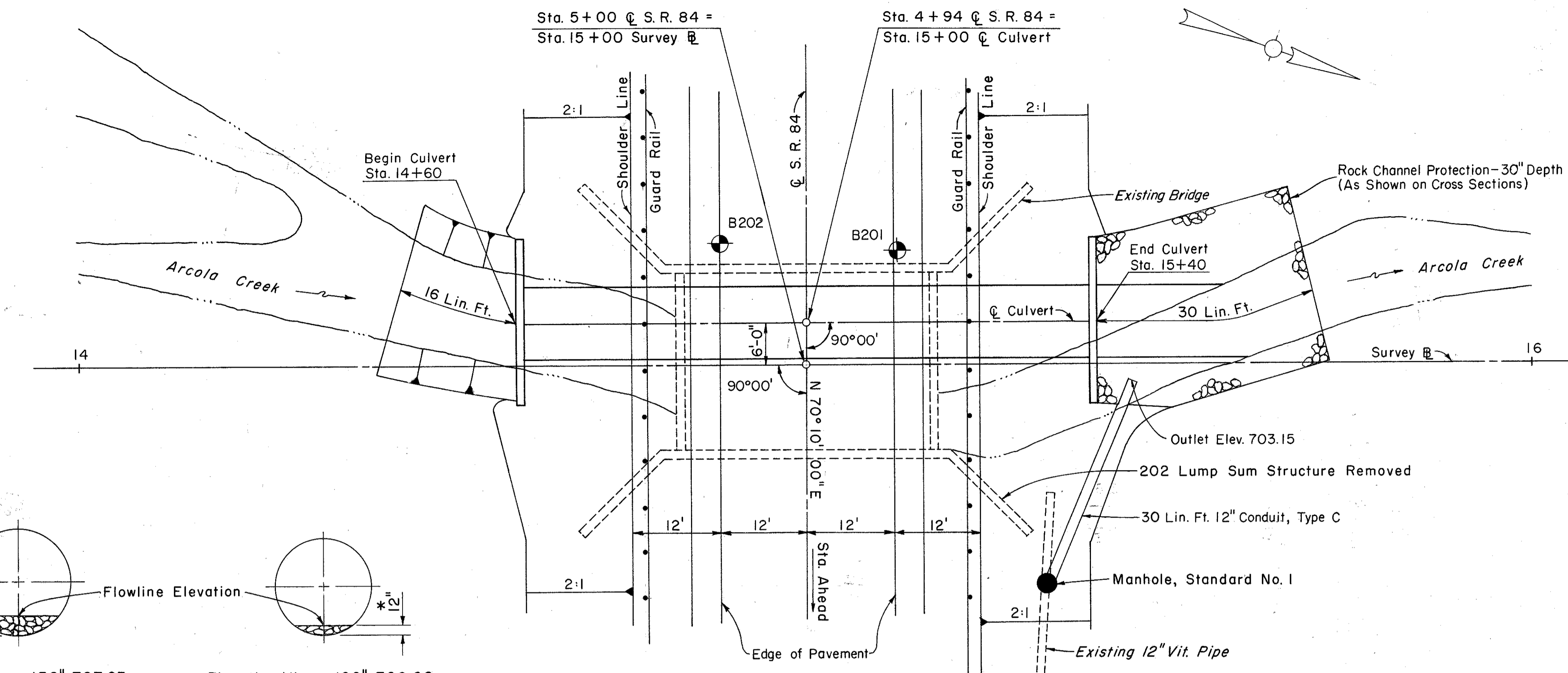


LAKE COUNTY
LAK-84-30.85

CALC. *W.B.*
DATE *3-4-82*
CHKD. *J.S.D.*
DATE *11-16-82*



*Backfill with material similar to existing stream bed. Payment for backfill material shall be included in the unit price bid for Item 603.

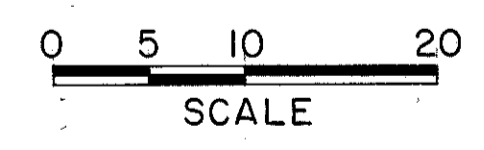
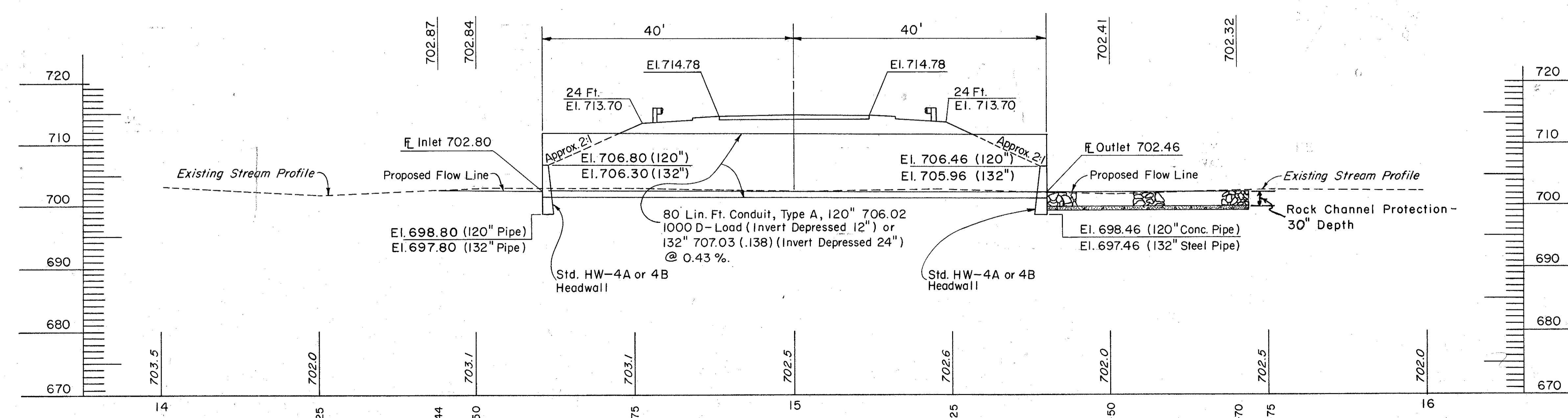
ESTIMATED QUANTITIES

603	Conduit Type A, 120" 706.02 or 132" 707.03 (.138)	80 Lin. Ft.
602	Concrete Masonry	18.46 Cu. Yds.
601	Rock Channel Protection, Type B, with Filter	67 Cu. Yds.

EXISTING STRUCTURE
(To be Removed)
 TYPE: Reinforced Concrete T-Beam
 SIZE: Span - 24', Width - 35'
 UNDERCLEAR: 8.7' ±

PROPOSED STRUCTURE
 TYPE and SIZE: Either 120" Reinforced Concrete Pipe, 1000 D-Load, Invert Depressed 12", or 132" Structural Plate Corrugated Steel Pipe, with Invert Depressed 24".
 SKEW: 90°00' L.F.
 LENGTH: 80 L.F.
 SLOPE: -0.43 %
 DRAINAGE AREA: 2.70 Sq. Miles
 Q₂₅: 617 c.f.s.
 HIGHEST KNOWN H.W.: 713.5 ± Occurance Date Unknown.
 DESIGN HIGH WATER Q₂₅: 711.6
 DESIGN OUTLET VELOCITY Q₂₅: 8.3 f.p.s.

- NOTES**
- See Channel Sections Sheet No.13 and 14 for Channel Excavation.
 - Earthwork and Seeding for Arcola Creek is included with S. R. 84, Plan and Profile Sheet No. 8.



FOUNDATION INVESTIGATION LEGEND
 ⊙ Indicates core boring location

CAPITOL ENGINEERING ASSOCIATES
CONSULTING CIVIL ENGINEERS
PAINESVILLE, OHIO

**STRUCTURE NO. LAK-84-30.86
OVER ARCOLA CREEK**

LAKE COUNTY STATE ROUTE 84
STA. 4 + 94.00

DESIGNED	DRAWN	TRACED	CHECKED
W.L.J.	D.P.R.	M.B.G.	C.L.S.