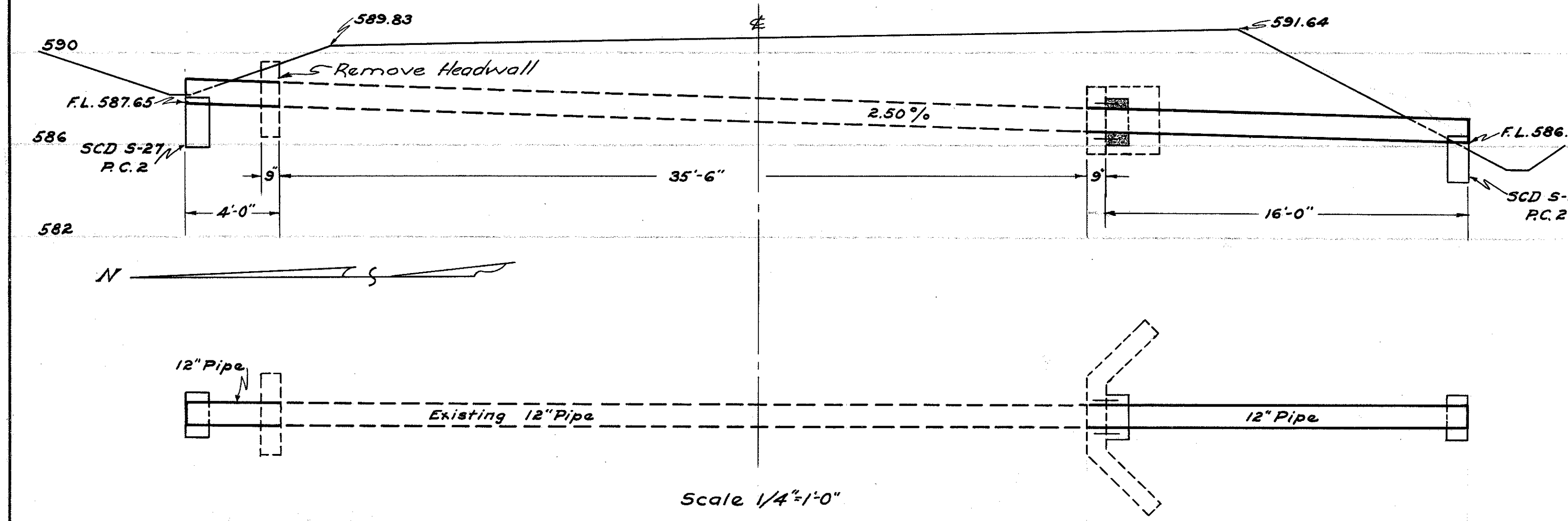


Painesville - Euclid Road
S.H. 520 Sec. 8 (Pt.) & Lakeline
Lake County

**C-4
CULVERT
Sta. 140+23**

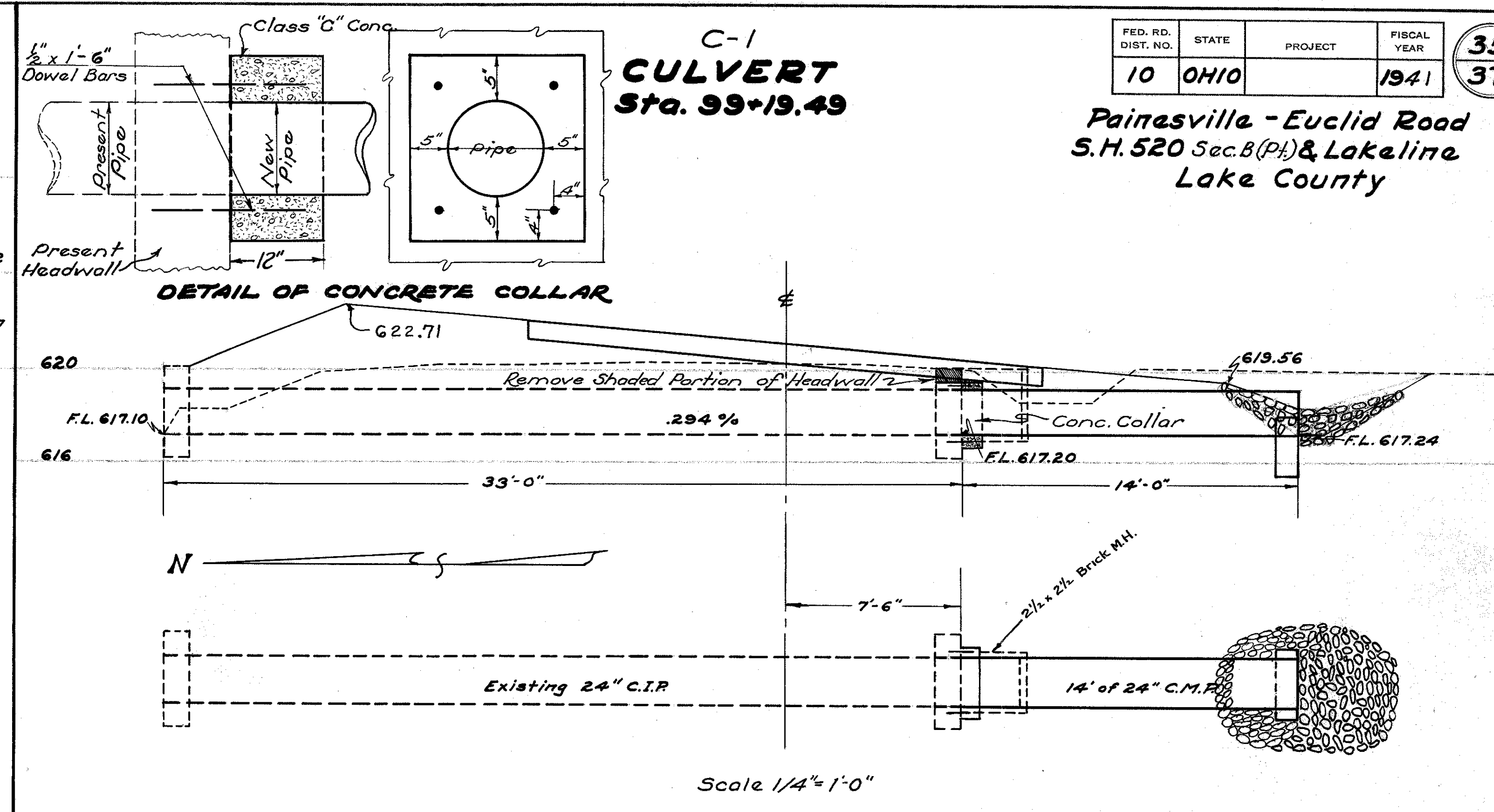


Culvert Data
Type: Std. Pipe Culvert
Std. Drwg. S.C.D. 5-27 RC-2
Size: 12" x 35'-6"

Work Required
Extend Culvert with 12" Pipe 4' left & 16' Rt.
Build Std. Cutoff Walls S.C.D. 5-27 RC-2
Remove Existing Headwall on Left.
Connect new pipe to old with conc. collar on Right.

Estimated Quantities
Excavation for Structures 3 Cu.Yds.
12" Pipe for Rdwy Culvert - 20 Lin. Ft.
Concrete Class "C" - 0.3 Cu. Yds.
Remove Portions of Exist. Struct. 0.6 Cu.Yds.
Dowel Holes 3.0 Lin. Ft.
Reinforcing Steel 4.0 Lbs.

**C-1
CULVERT
Sta. 99+19.49**

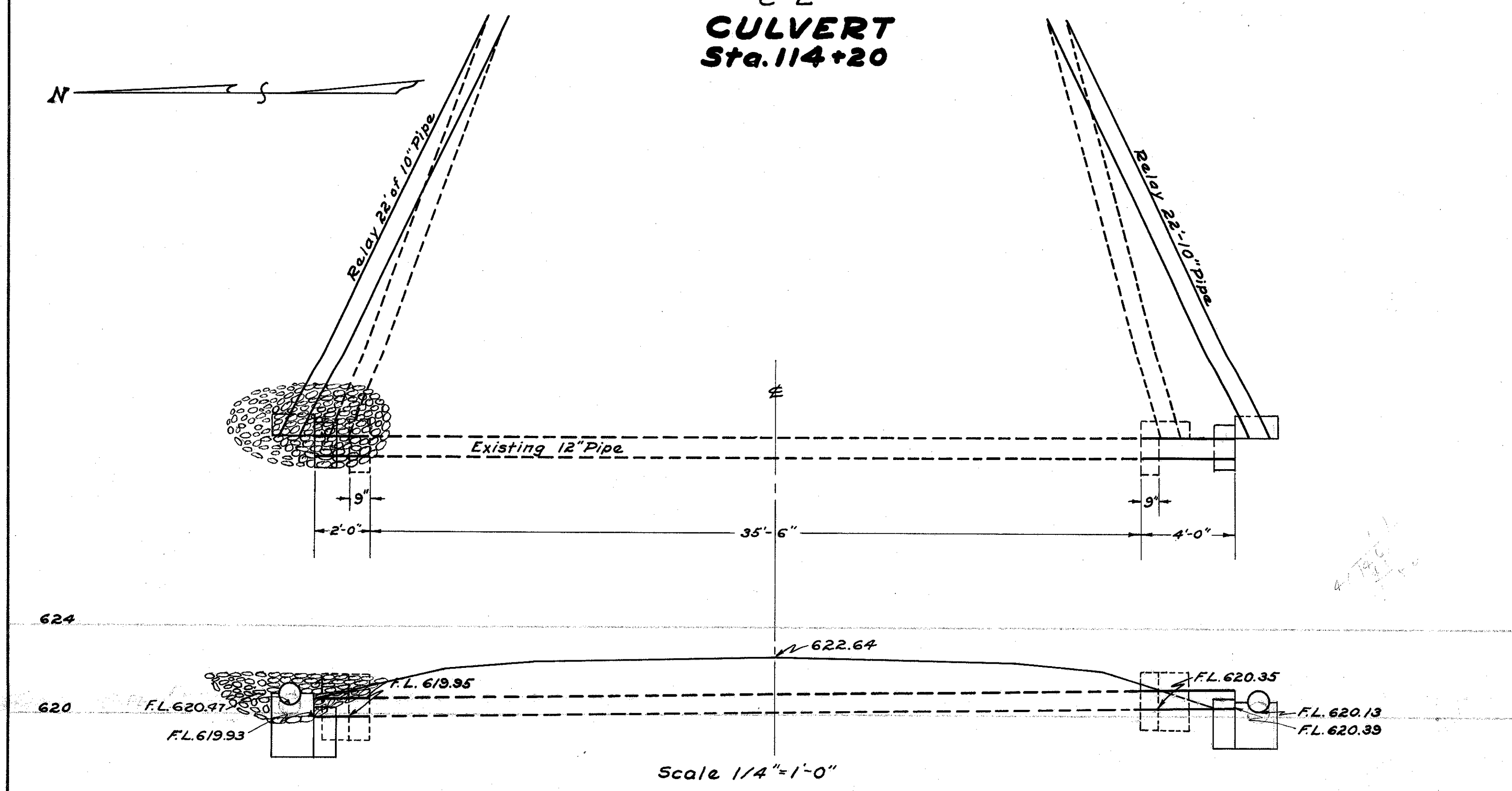


Culvert Data
Type: Std. Pipe Culvert
Std. Drwg. N.S. 5-27 RC-2
Size: 24" x 41'

Work Required
Extend Culvert with 24" Pipe 14' Right
Build Std. Cutoff Wall on right
Remove top of Headwall & Manhole and connect new pipe to old with conc. collar as shown. Place Riprap as shown.

Estimated Quantities
Excavation for Structure - 7 Cu.Yds.
24" Corrugated Metal Pipe - 14 Lin. Ft.
Concrete Class "C" - 0.4 Cu. Yds.
Remove portions of exist. struct. 1.0 Cu.Yds.
Riprap (Type "A") 6.0 Sq.Yds.
Dowel Holes 3.0 Lin. Ft.
Reinforcing Steel 4.0 Lbs.

**C-2
CULVERT
Sta. 114+20**

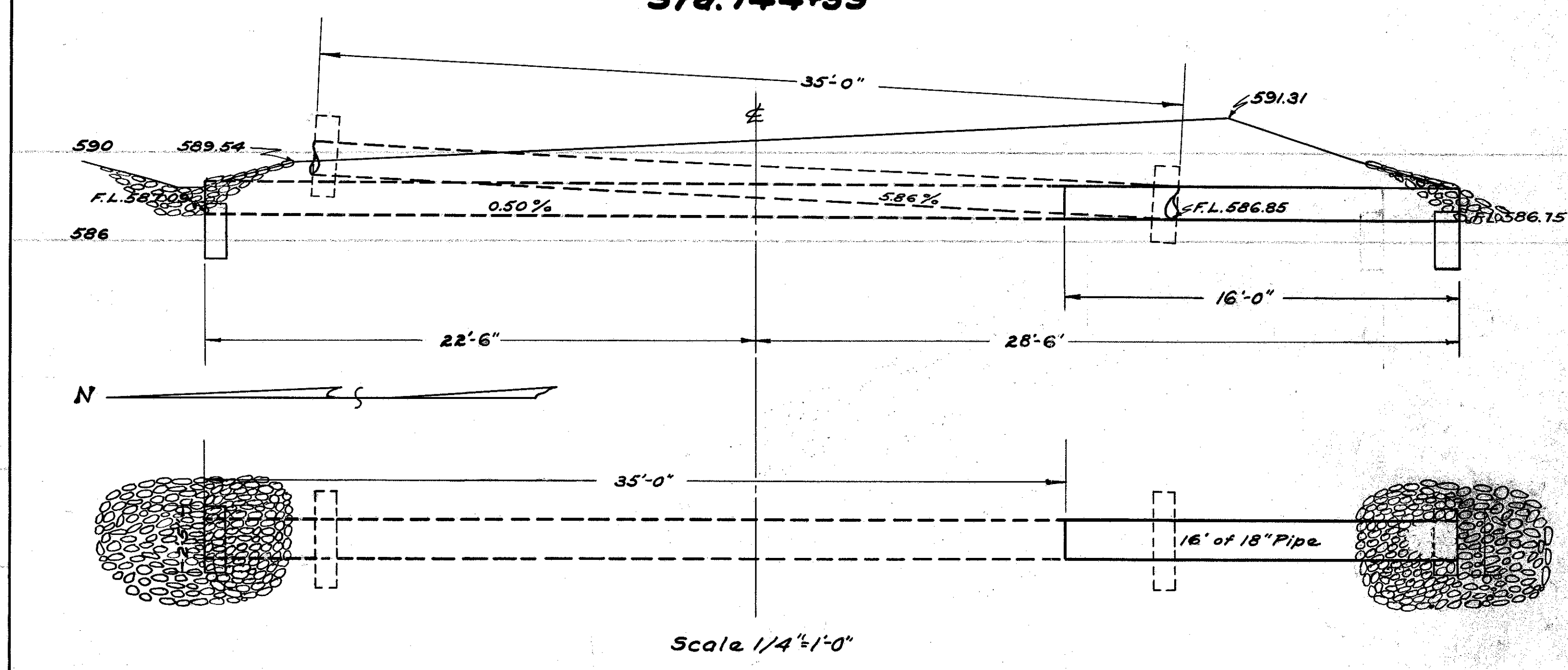


Culvert Data
Type: Std. Pipe Culvert
Size: 12" x 41'-6"
Std. Drwg. N.S. 5-27 RC-2

Work Required
Extend Culvert with 12" Pipe 2' left & 4' Rt.
Build Std. Cutoff Walls S.C.D. 5-27 RC-2
Remove Existing Headwalls
Relay 44' of 10" Pipe. Place Riprap as shown.

Estimated Quantities
Excavation for Structures - 2 Cu.Yds.
12" Pipe for Rdwy Culvert - 6 Lin. Ft.
Concrete Class "C" - 4 Cu. Yds.
Relaying Pipe - 44 Lin. Ft. (10")
Pipe removed for re-use 44 Lin. Ft. (10")
Remove portions of existing Struct. 0.7 Cu.Yds.
Riprap (Type "A") 4.0 Sq.Yds.

**C-5
CULVERT
Sta. 144+59**



Culvert Data
Type: Std. Pipe Culvert
Size: 18" x 51'

Work Required
Relay 35'-0" Existing C.M.P. & Extend with 16" x 18" C.M.P.
Build Std. Cutoff Walls S.C.D. 5-27 RC-2
Clean Channel to south 40 Lin. Ft.
Remove Existing Headwalls. Place Riprap as shown.

Estimated Quantities
Excavation for Structures - 12 Cu. Yds.
18" C.M.P. for Rdwy Culvert including Corrugated Metal Bars - 16 Lin. Ft.
Concrete Class "C" - 0.2 Cu. Yds.
Channel Excavation - 5 Cu. Yds.
Pipe removed for reuse 35 Lin. Ft. (18")
Relaying Pipe 35 Lin. Ft. (18")
Remove portions of exist. struct. 1.0 Cu. Yds.
Riprap (Type "A") 6.0 Sq. Yds.