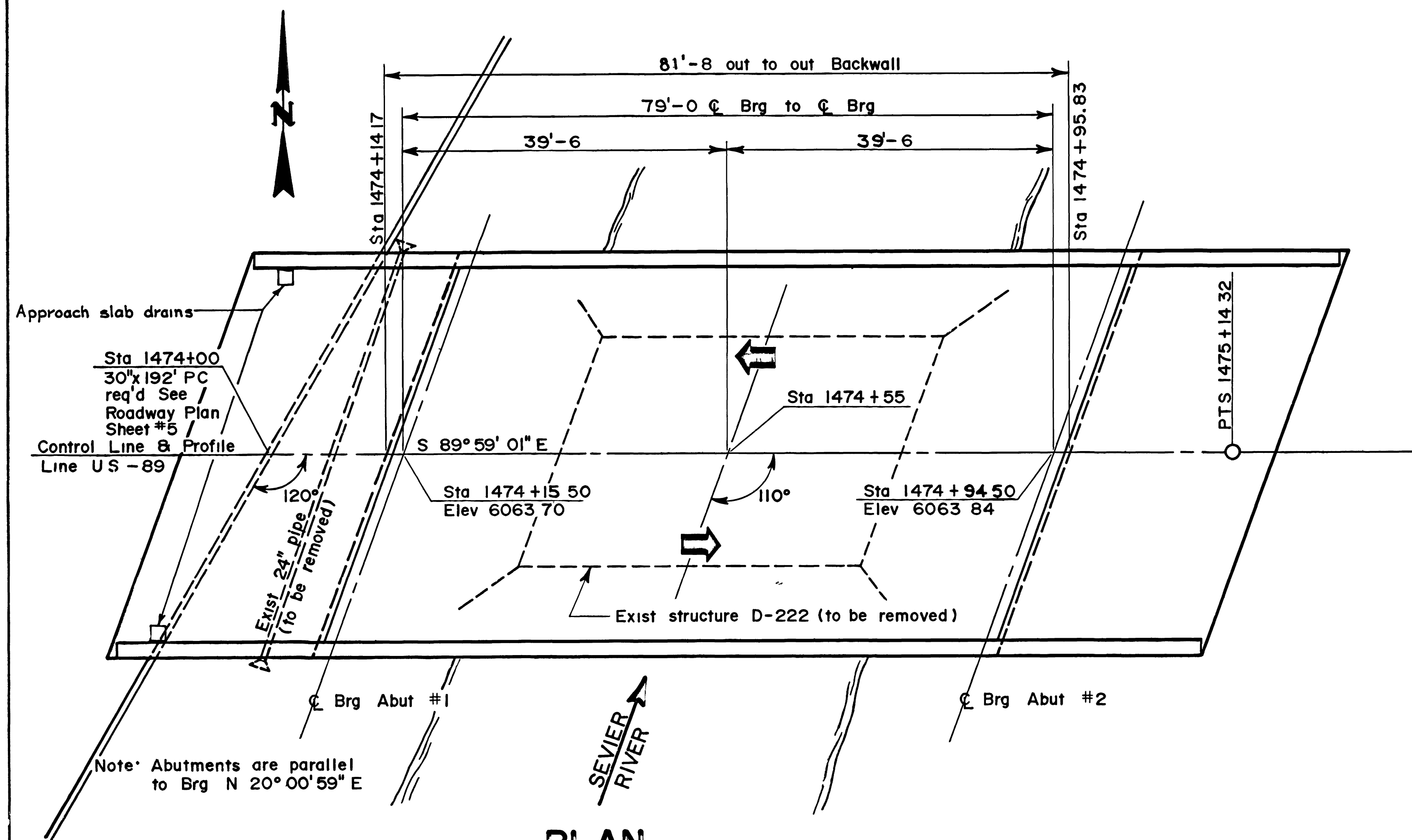


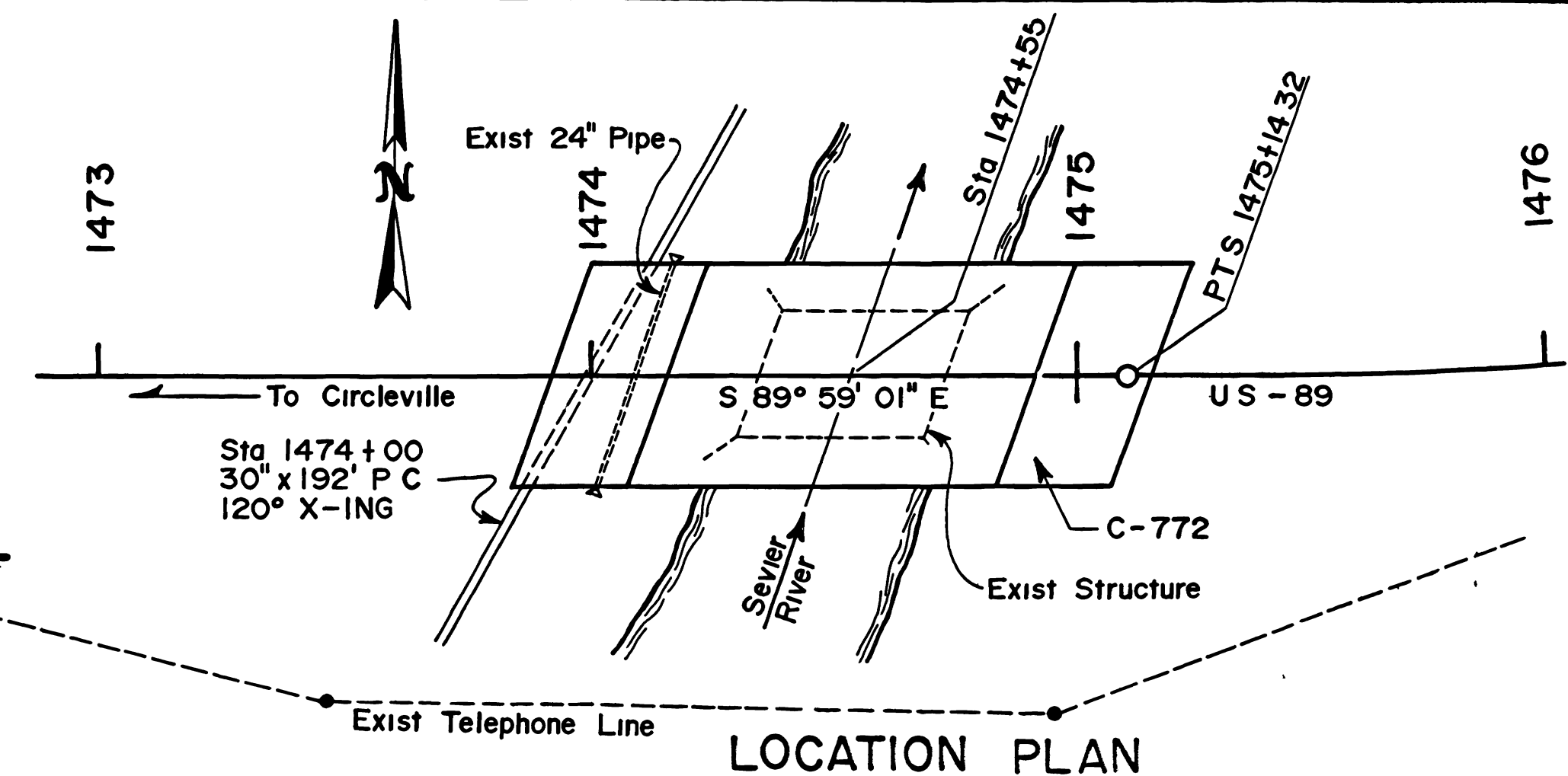


CURVE DATA

PI = 1484+07.44
 Δ = 44° 57' 59" LT
 D = 3° 15' 00"
 R = 1762.95'
 T = 893.12'
 L = 1059.38'
 L_s = 325.00'
 N 549143.36'
 E 1782319.89'

INDEX OF SHEETS

1. Situation and Layout
2. Soil Data
3. Foundation Plan
4. Abutment and Wingwall Details
5. Framing Plan
6. Girder Details and Camber Diagram
7. Steel Details
8. Screenshot Elevations
9. Deck and Approach Slab Details
10. Parapet Details
11. Approach Slab Drain Details
12. Reinforcing Steel Schedule



GENERAL NOTES

1. Materials, construction, and workmanship shall be in accordance with the Utah Department of Transportation Standard Specifications for Road and Bridge Construction, Edition of 1979, and Supplements thereto which are in effect at the date of request for bids.
2. All reinforcing steel shall be deformed billet steel bars conforming to AASHTO designation M-31 Grade 60 and shall be epoxy coated.
3. All structural steel shall be structural carbon steel conforming to AASHTO designation M270 Gr 50W except where noted otherwise.
4. Exposed concrete corners shall be chamfered $\frac{3}{4}$ " except where noted otherwise.
5. Cover to reinforcing steel shall be 2" except where noted otherwise.
6. All cast-in-place concrete shall be Class AA(AE) except where specified otherwise.

DESIGN DATA

HS 20-44 or Interstate Alternate Loading in accordance with AASHTO Specifications of 1989 and Interim Specifications

Cast-in-place Concrete f_c = 1400 psi, f_s (Reinf) = 24,000 psi, n = 8

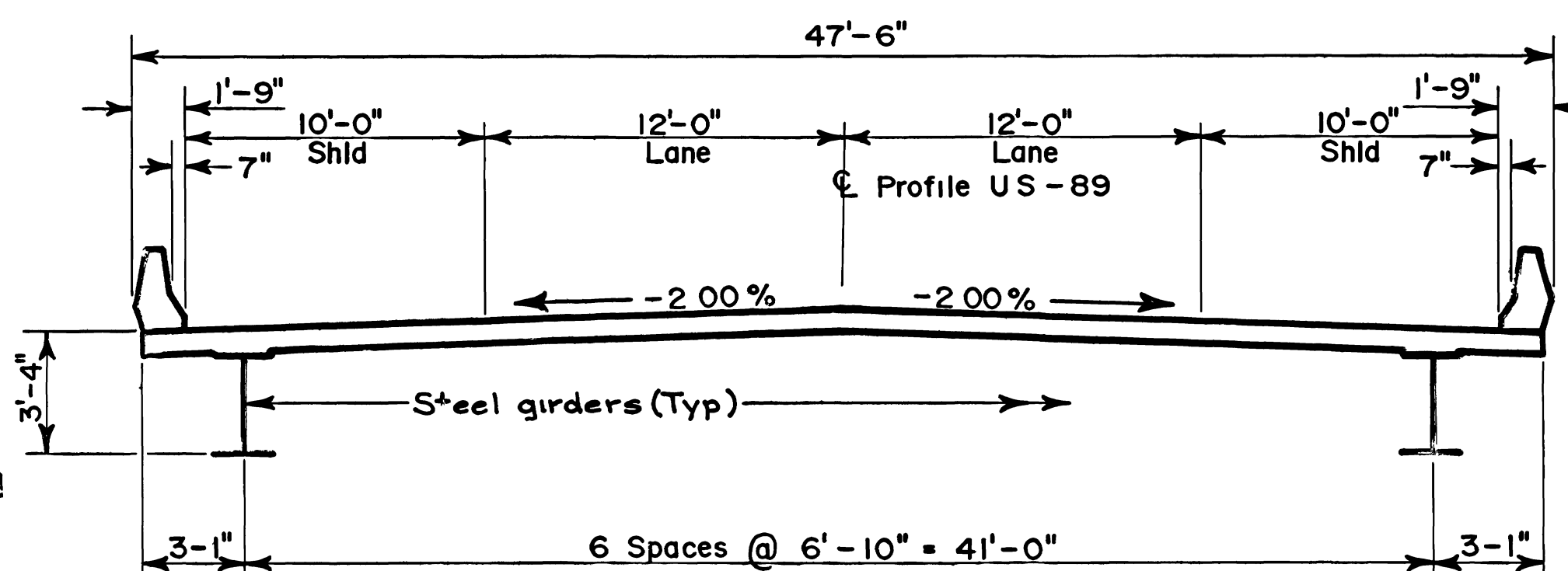
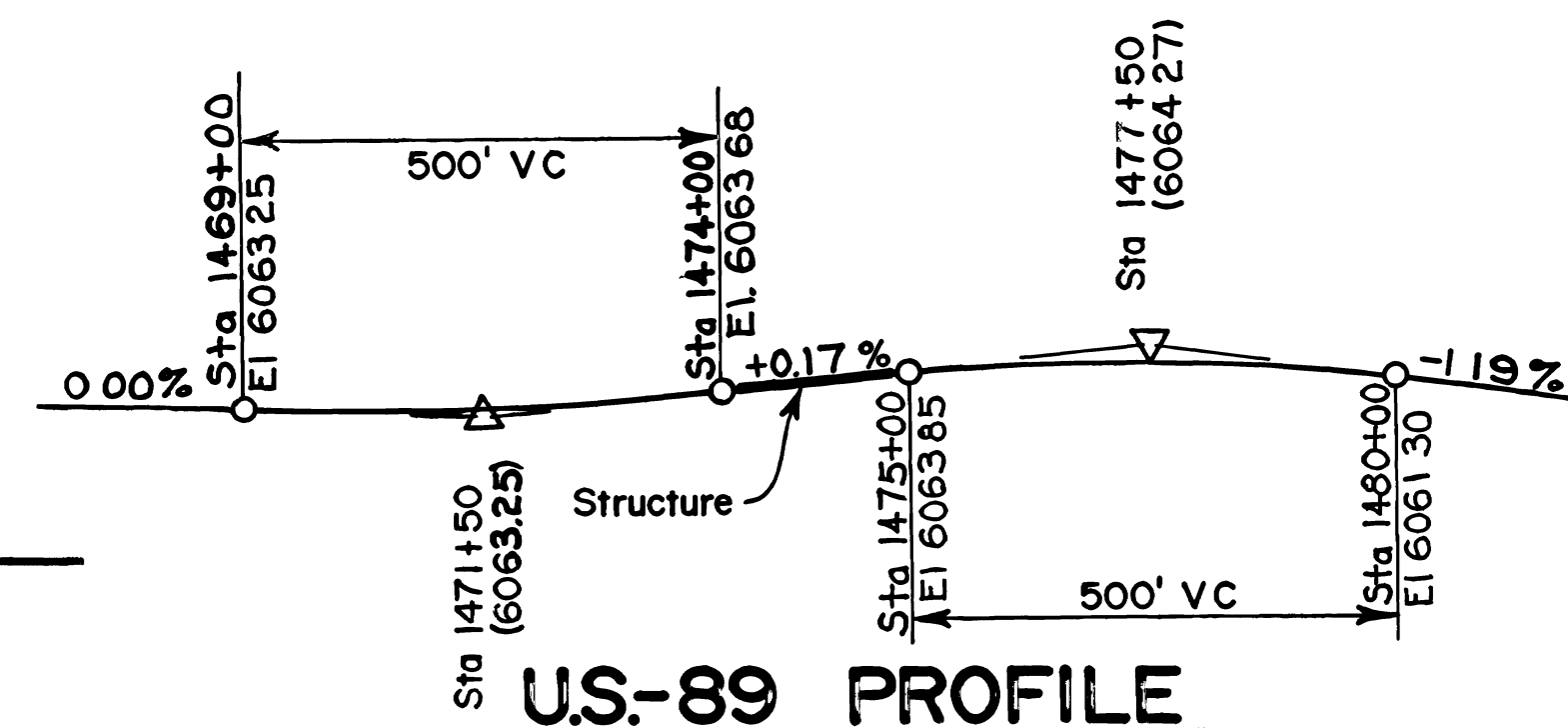
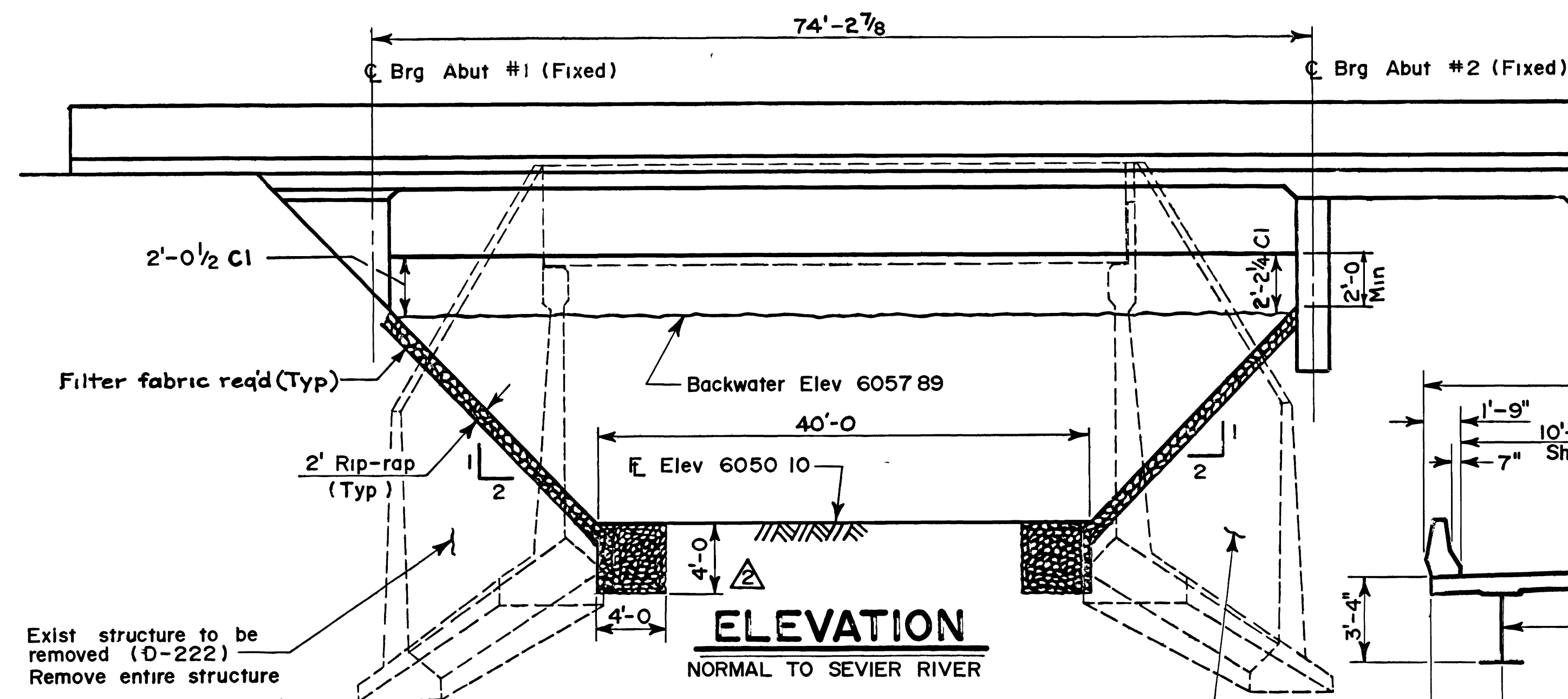
Structural Steel f_s = 27,000 psi

Wearing Surface $\frac{1}{2}$ " Concrete, 35 lbs/sq ft Future Wearing Surface

Design Speed: 55 mph Δ

QUANTITIES

ITEM	ESTIMATED	UNIT	AS CONST
Granular Backfill Borrow	77	Cu Yds	
Drilled Caissons 3'-0" Dia	174	Lin Ft	
Concrete Class AA(AE)(Est Qty 296Cu Yds)		Lump	
Reinforcing Steel (Epoxy Coated)	56153	Lbs	
Structural Steel (Est Qty 99,727 lbs) Spec Item		Lump	
Removal of Bridges		Lump	



HYDRAULIC DATA

1. Drainage Area = 1015 sq mi
2. Design Flood (Q_d) = Q_{50} 2290 cfs
3. 100-yr Flood (Q_{100}) = 2760 cfs
4. Normal Depth (d_n) for Q_d = 55 ft
5. Normal Water Surface Elev for Q_d = 6055.92 ft
6. Back-Water for Q_d = 1.97 ft
7. Back-Water Elev for Q_d = 6057.89 ft
8. Velocity Through Bridge Opening for Q_d = 10 ft/sec
- 8a. Anticipated Total Scour Depth for Q_{50} = 5.2 ft
9. Normal Water Surface Elev for Q_{100} = 6056.15 ft
10. Back-Water for Q_{100} = 2.34 ft
11. Back-Water Elev for Q_{100} = 6058.49 ft
- 11a. Anticipated Scour Depth for Q_{100} = 5.6 ft, Q_{500} = 7.5 ft
12. Overtopping Flood Frequency in years = N/A
13. Magnitude of Overtopping Flood ($Q_{\text{overtopping}}$) = N/A
14. Water Surface Elev for ($Q_{\text{overtopping}}$) = N/A

	AFM	71690	Keying of the Riprap changed	
	AFM	7990	Changed to 55 m ph	
NO	BY	DATE	REMARKS	
REVISIONS				

UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION	
SEVIER RIVER BRIDGE REPLACEMENT US-89 SITUATION & LAYOUT	
DESIGN <u>AFM 4/17/90</u> CHECK <u>GJB 4/25/90</u>	1474 + 55
DRAWN <u>AFM 5/89</u> CHECK <u>VAB 8-15-89</u>	STATION
QUANT <u>VAB 12-1-89</u> CHECK <u>KMM 4-11-90</u>	COUNTY
APPROVAL <u>4-23-90</u> <u>Nag</u>	PIUTE
RECOMM <u>4-27-90</u> <u>Nag</u>	DRG NO
APPROVED <u>4-27-90</u> <u>Nag</u>	C-772
PROJECT NUMBER	SHT 1 of 12

