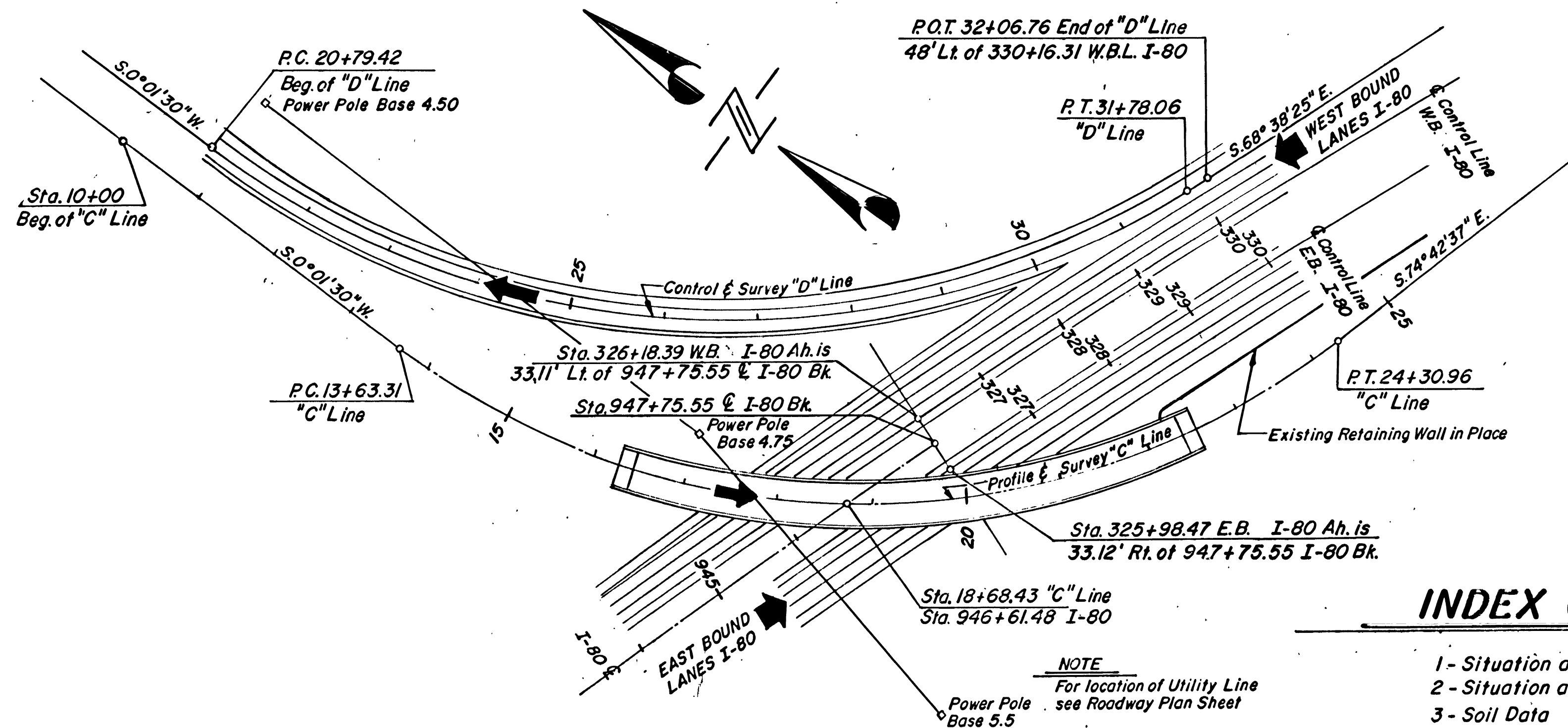




LOCATION PLAN

INDEX OF SHEETS

- 1 - Situation and Layout
- 2 - Situation and Layout
- 3 - Soil Data
- 4 - Foundation Plan
- 5 - Concrete Pile Details
- 6 - Abutment Details
- 7 - Bent No. 2 Details
- 8 - Bent No. 3 Details
- 9 - Framing Plan
- 10 - G1 Girder Details
- 11 - G2 Girder Details
- 12 - G3 Girder Details
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- 14 - G5 Girder Details
- 15 - Steel and Bent Bearing Details
- 16 - Splice and Abutment Bearing Details
- 17 - Diaphragms and Splice Details
- 18 - Splice and Shear Stud Details
- 19 - Splice Details
- 20 - Internal Bent Cap, Bent No. 2
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- 23 - Deck Joint Details
- 24 - Span No. 1 Screed Elevations
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- 26 - Parapet Details
- 27 - Approach Slab Drain Details
- 28 - Concrete Slope Protection
- 29 - Reinforcing Steel Schedule
- 30 - 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 ASTM designation A 615, Grade 60.
- 3 - All structural steel shall be structural carbon steel conforming to AASHTO designation M-183 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 1983 and Interim Specifications.

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

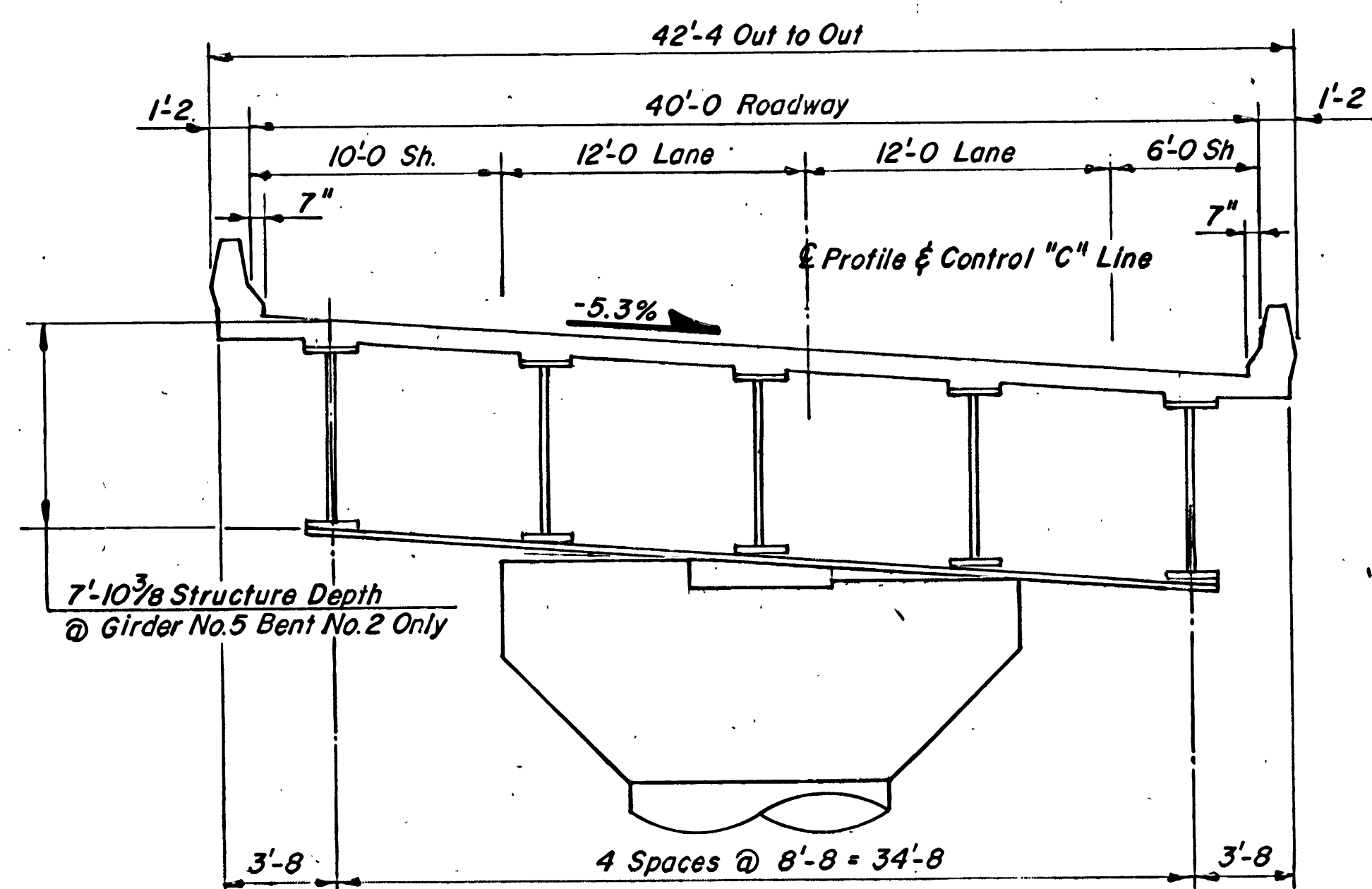
Structural Steel: $f_s = 20,000$ psi

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

Design Speed: 40 M.P.H. "C" Line, 70 M.P.H. "I-80"

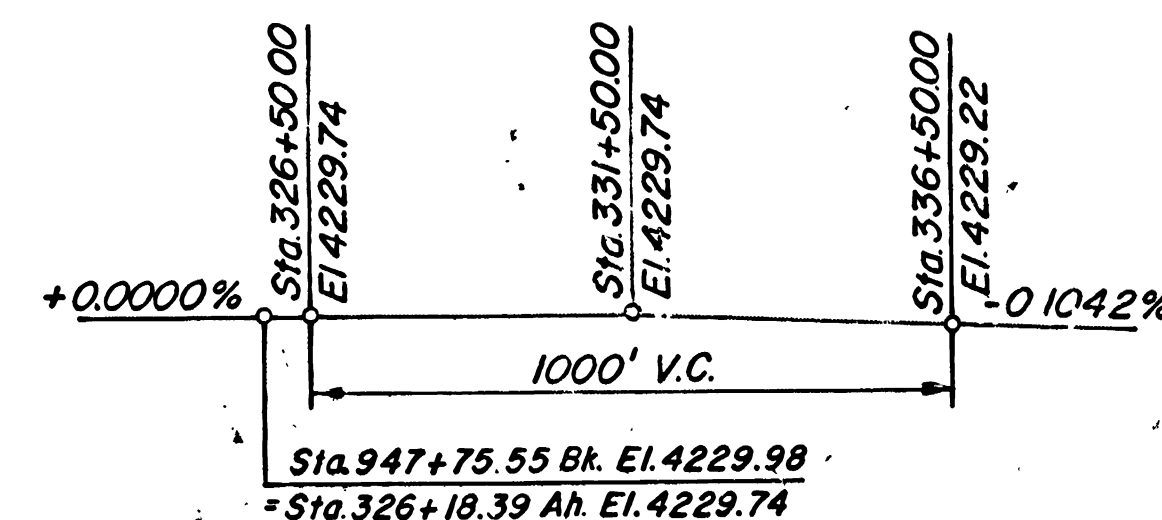
QUANTITIES

ITEM	ESTIMATED	UNIT	(AS CONST.)
③ ① Concrete Class AA(AE) (est. quant. 1272 cu. yds.)	1	Lump	
③ ① Reinforcing Steel	39250	Lbs.	
③ ① Reinforcing Steel (Epoxy Coated)	206715	Lbs.	
③ ① Structural Steel (est. quant. 2,003,685 lbs.)	1	Lump	
③ ① Concrete Slope Protection	365	Sq. Yds.	
③ ① Granular Backfill Borrow	124	Cu. Yds.	
③ ① Driven Piles (1'-0" Dia.)	3378	Lin. Ft.	
③ ① Furnishing Pile Driving Equipment	1	Lump	
③ ① Expansion Joints	1	Lump	
③ ① Pile Sleeve	70	Lin. Ft.	
③ ① Pile Analyzer	1	Lump	

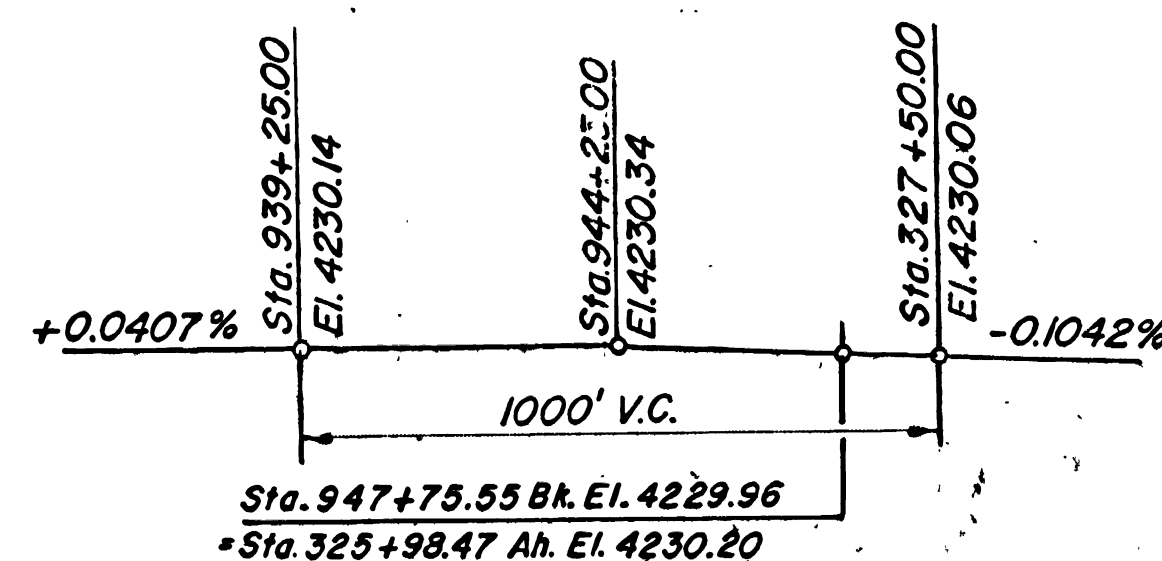


SECTION A-A

STATIONS LOOKING BACK, SEE SHT. NO. 2



I-80 WEST BOUND PROFILE



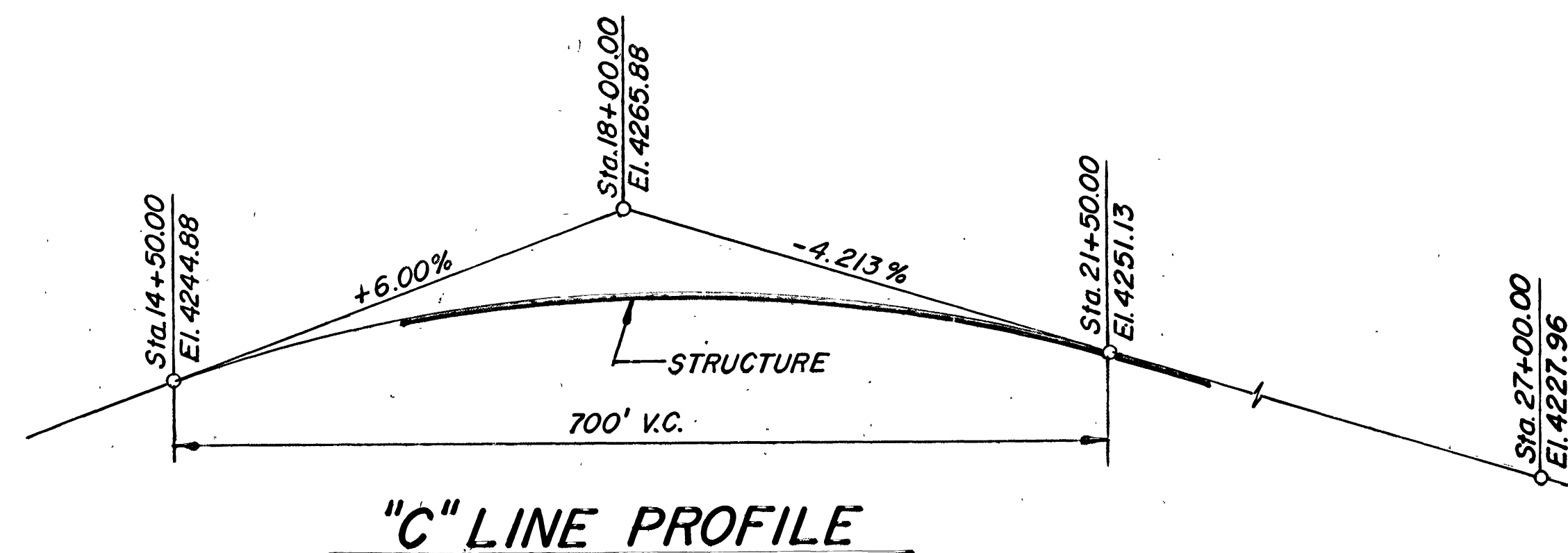
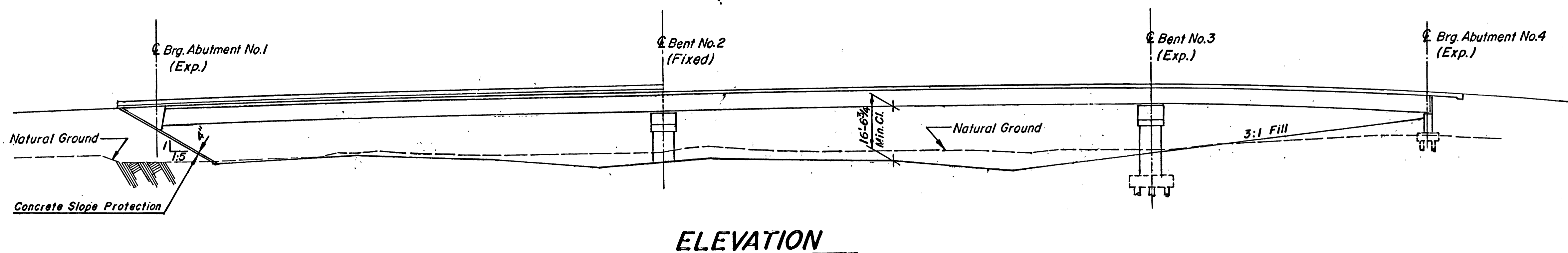
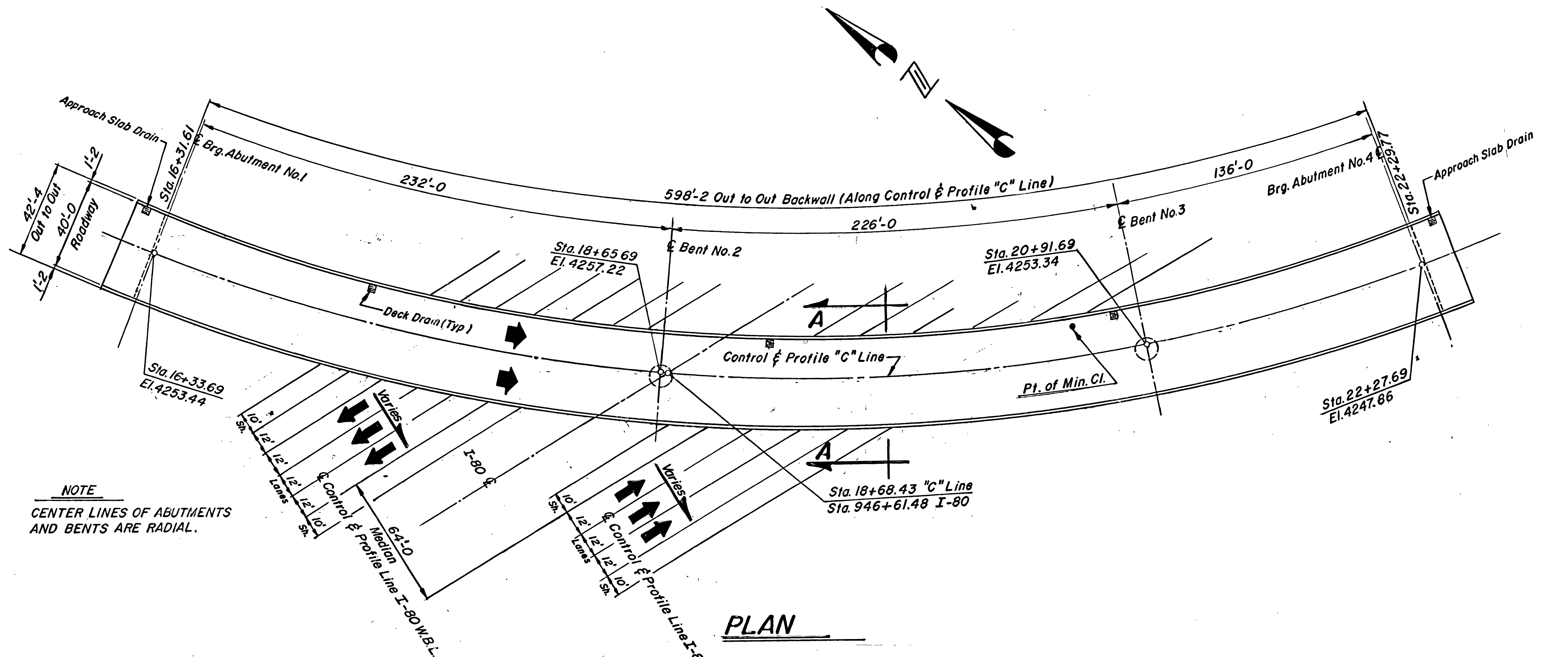
I-80 EAST BOUND PROFILE

② I-80	W.B. I-80	E.B. I-80	"C" LINE
$\Delta = 19^\circ 09' 33''$ Rt.	$\Delta = 11^\circ 37' 23''$ Rt.	$\Delta = 11^\circ 38' 40''$ Rt.	$\Delta = 74^\circ 44' 07''$ Lt.
$D = 0^\circ 35'$	$D = 0^\circ 30'$	$D = 0^\circ 30'$	$D = 7^\circ 00'$
$R = 9822.13'$	$R = 11459.16'$	$R = 11459.16'$	$R = 818.51'$
$T = 1657.69'$	$T = 1166.31'$	$T = 1168.47'$	$T = 625.07'$
$L = 3284.43'$	$L = 2324.61'$	$L = 2328.89'$	$L = 1067.65'$
$PI = 931+48.81$	$PI = 337+84.69$	$PI = 337+66.95$	$PI = 19+88.38$

CURVE DATA

③	MPP	7/1/86	Revised Quantities as shown
③	MPP	4/29/86	Revised Quantities as shown
③	MPP	1/24/86	Revised Quantities as shown

UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION			
4800 WEST ("C" RAMP) STRUCTURE "C" LINE OVER I-80 SITUATION & LAYOUT			
DESIGN	Mc 5-26-83	CHECK	Mc 7-2-83
DRAWN	Mc 5-26-83	CHECK	Mc 7-2-83
QUANT	Mc 7-2-83	CHECK	Mc 7-2-83
APPROVAL	1-10-86	DATE	1-10-86
RECOMM.	1-10-86	DATE	1-10-86
NO.		BY	DATE
REVISIONS		REMARKS	
1R-80-3(99)114			
SHT. 1 OF 30			



NO.	BY	DATE	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION			
4800 WEST ("C" RAMP) STRUCTURE- "C" LINE OVER I-80			
SITUATION & LAYOUT			
DESIGN Mc 5-26-83	CHECK Cv 7 1/20/86	18+68.43 "C" Line	
DRAWN Mc 5-26-83	CHECK PD 1-2-84	STATION	
QUANT PD 7-2-85	CHECK Mc 7-2-85	COUNTY	
APPROVAL RECOMM. 10/16/85	DATE 1-20-86	SALT LAKE	
APPROVED 1-20-86	DATE 1-20-86	DRG. NO.	
PROJECT NUMBER IR-80-3(99)114		SHT. 2 of 30	

Cast-in-place Concrete: $f_c = 14,000$ psi, f_s (Reinf.) 24,000 psi, $n = 8$
 Structural Steel: $f_s = 20,000$ psi
 Wearing Surface: $\frac{1}{2}$ " Concrete, 35 lbs./sq. ft. Future Wearing Surface
 Design Speed: 40 M.P.H. "C" Line, 70 M.P.H. "I-80"

ITEM

ITEM		ESTIMATED	UNIT	AS CONST.
③	② ① Concrete Class AA(AE) (est. quant. 1272 cu.yds.)	1	Lump	
③	① Reinforcing Steel	39250	Lbs.	
③	② ① Reinforcing Steel (Epoxy Coated)	206715	Lbs.	
	Structural Steel (est. quant. 2,003,685 lbs.)	1	Lump	
	Concrete Slope Protection	365	Sq.Yds.	
	Granular Backfill Borrow	124	Cu.Yds.	
②	① Driven Piles (1'-0 Dia.)	3378	Lin.Ft.	
	Furnishing Pile Driving Equipment	1	Lump	
	Expansion Joints	1	Lump	
	Pile Sleeve	70	Lin.Ft.	
	Pile Analyzer	1	Lump	

"C" LINE

58'40" Rt.	$\Delta = 74^{\circ}44'07"$ Lt.
30'	$D = 7^{\circ}00'$
59.16'	$R = 818.51'$
8.47'	$T = 625.07'$
28.89'	$L = 1067.65'$
7+66.95	$PI = 19+88.38$

③	MPP	7/1/86	Revised Quantities as shown
②	MPP	4/29/86	Revised Quantities as shown
①	MPP	1/24/86	Revised Quantities as shown
NO.	BY	DATE	REMARKS

REVISIONS

UTAH DEPARTMENT OF TRANSPORTATION		
SALT LAKE CITY, UTAH		
STRUCTURES DIVISION		
4800 WEST ("C" RAMP) STRUCTURE		
"C" LINE OVER 1-80		
SITUATION & LAYOUT		
DESIGN	Ally 6/10/85	CHECK Cyf. 1/20/86
DRAWN	Mc 5-26-83	CHECK D 1-2-84
QUANT	D 7-2-85	CHECK MC 7-2-85
APPROVAL RECOMM.	10/16/85	Ally Fallah, P.E.
DATE	1-20-86	J. L. Christensen
APPROVED	DATE	CHIEF STRUCTURAL ENGINEER
IR-80-3(99)114		DRG. NO. C-732
PROJECT NUMBER		SHT. 1 OF 30

