

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

IX - 69(22)
ISSUE NO. 1

FHWA REGION	STATE	PROJECT
5	OHIO	IX-69(22) ISSUE NO. 1

1
185

CUYAHOGA COUNTY
CUY-10-16.23

LORAIN - CARNEGIE BRIDGE

CUY-10-16.23
CUYAHOGA COUNTY
CITY OF CLEVELAND

Sheets 141, 142, 145 & 146 revised
12-17-80 EBL.

Sheets 78, 109, 112, 115 revised
3-10-81 EBL

Sheet 56 revised 4-6-81 EBL
Sheet 122A substituted for
sheet 122 4-6-81 EBL

Sheets 123, 124, 125, 126, 127, 128, 181, 182,
& 183 superseded by sheets 123A, 124A, 125A, 126A, 127A, 128A,
181A, 182A, & 183A respectively.

7-10-81 EBL

Sheets 119 and 121
Rev. 12-24-81 EBL DATE: 6/25/79

Sheet 112 revised 5-4-82 EBL
Sheet 121 superseded by
sheet 121A 8-23-82 EBL

BOARD OF COMMISSIONERS, CUYAHOGA COUNTY

Robert E. Seaman
Virgil E. Brown

1979 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO,
DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL
SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF
THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY
AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON THE PLANS (SHEET 2).

Sheets 78, 101, 102, 105, 106, 107, 108, 133, 151, 152, 153, 155, 156, 157, 158, 159, 161,
162, 163, 164, 165, 166, 168, 169, 170, 174, 178, 184, & 185 revised 12-5-83 EBL
Sheets 102A, 102B, 105A, 106A, 106B, 106C, 106D, 106E, 106F, 106G, 106H, 106J,
109A, 118A, 132A, 133A, 167A & 167B added 12-5-83

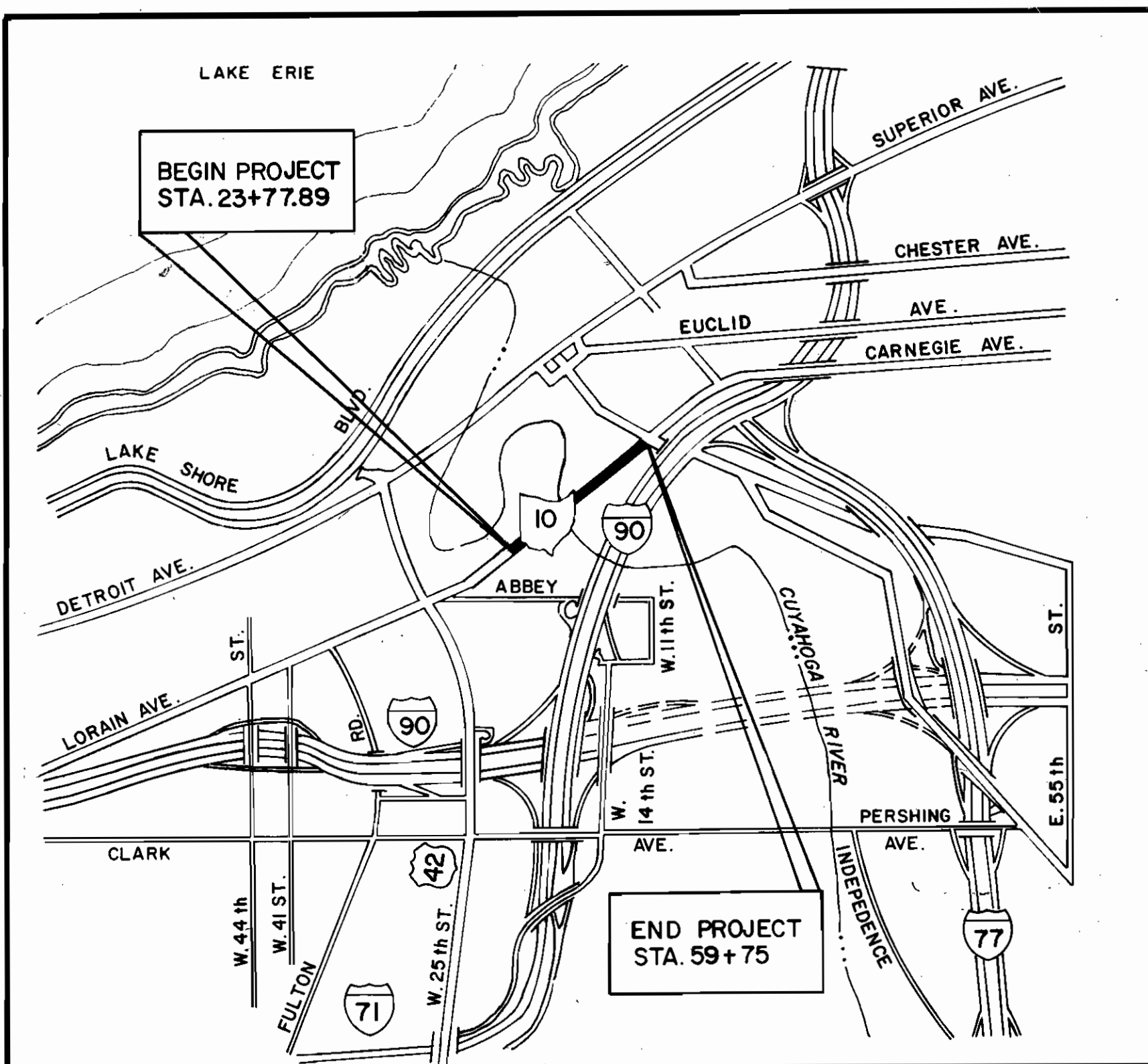
APPROVED: *Thomas M. Full*
DATE: 7-26-79 DISTRICT DEPUTY DIRECTOR OF TRANSPORTATION

APPROVED: *Robert B. Pfeiffer*
DATE: 11-13-79 ENGINEER, BUREAU OF BRIDGES AND
STRUCTURAL DESIGN

APPROVED: *R. E. Luth*
DATE: 11-13-79 CHIEF ENGINEER, PLANNING AND DESIGN

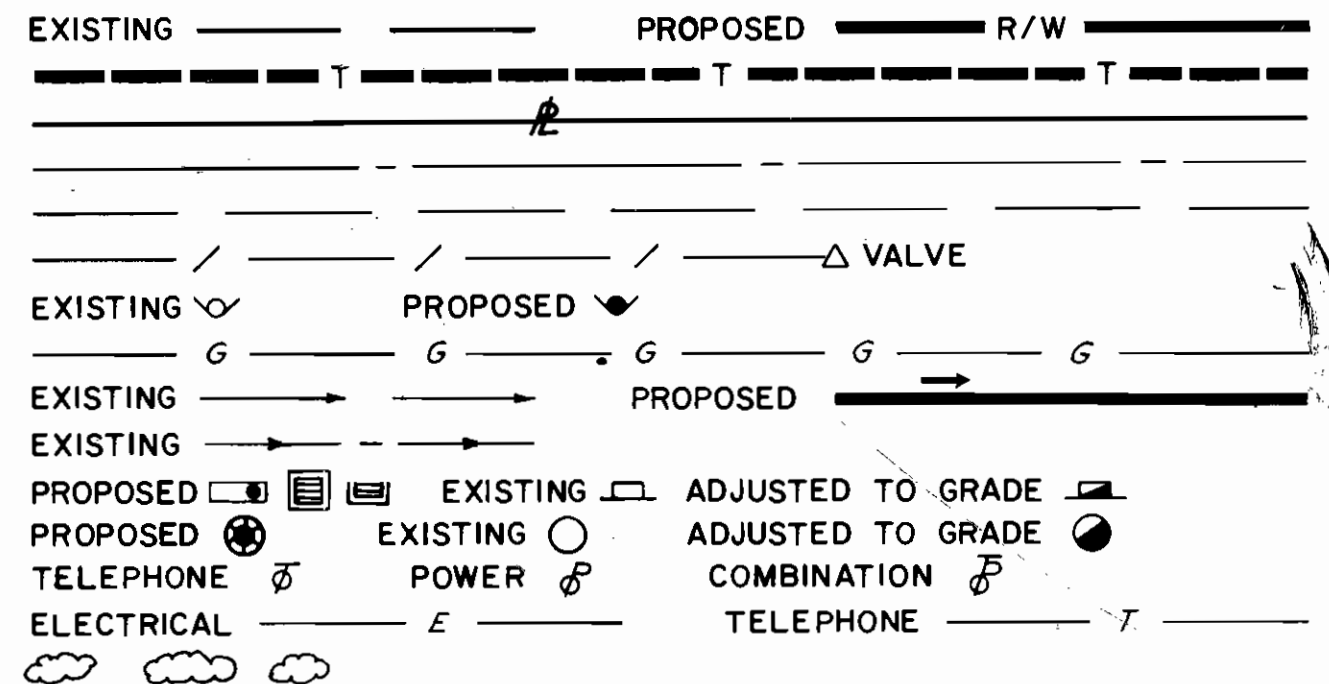
APPROVED: *David A. Weir*
DATE: 11-13-79 DIRECTOR, DEPARTMENT OF TRANSPORTATION

APPROVED: *Ronald A. Strohman*
DATE: 6-22-79 COUNTY ENGINEER



CONVENTIONAL SIGNS

- RIGHT OF WAY LINE
- TEMPORARY RIGHT OF WAY LINE
- PROPERTY LINE
- CENTERLINE
- CONSTRUCTION LINE
- WATER LINE
- WATER HYDRANT
- GAS LINE
- STORM SEWER
- SANITARY SEWER
- CATCH BASIN
- MANHOLE
- UTILITY POLE
- DUCTS
- TREES



LINE DATA

BEGIN PROJECT	STA. 23+77.89	
END PROJECT	STA. 59+75.00	
TOTAL PROJECT LENGTH =	3,597.11 Ft.	= 0.681 Mi.
ADD FOR WORK		
STA. 0+00 TO STA. 23+77.89 =	2,377.89 Ft.	
STA. EQUATION 59+75.00 PROJECT R = 15+93.53 R "F"	506.47 Ft.	
STA. 15+93.53 R "F" TO STA. 21+00 R "F" =	6,481.47 Ft.	= 1.228 Mi.
TOTAL WORK LENGTH =		

INDEX OF SHEETS

TITLE SHEET	1	REMOVAL PLAN	15
SCHEMATIC PLAN AND DETOUR PLAN	2	DETAILS	16-21
CENTERLINE SURVEY	3	CLEANING, TELEVISIONING AND REHABILITA-	22-23
BENCH MARKS AND TRAVERSE POINT REFERENCES	4	TION OF SEWERS	
TYPICAL SECTIONS	5-6	PAVEMENT MARKING	24
GENERAL NOTES	7-9	PIER SIX DRAINAGE	25-26
COMPUTATIONS AND SUB SUMMARIES & GEN NOTES	10-11	APPROACH SLAB DETAILS	27-29
GENERAL SUMMARY	12-13	LIGHTING PLANS	30-32
PAVEMENT PLAN	14	MELP PLANS	33-64
		STRUCTURE PLANS	65-73A-185

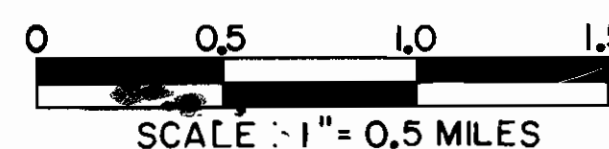
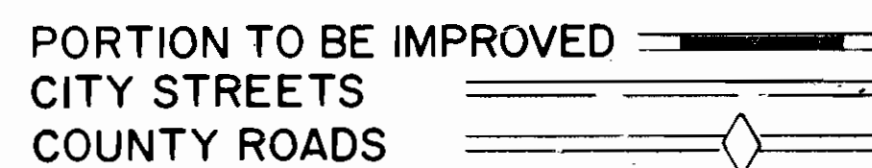
Howard, Needles, Tammen & Bergendoff
CONSULTING ENGINEERS
CLEVELAND, OHIO

HNTB

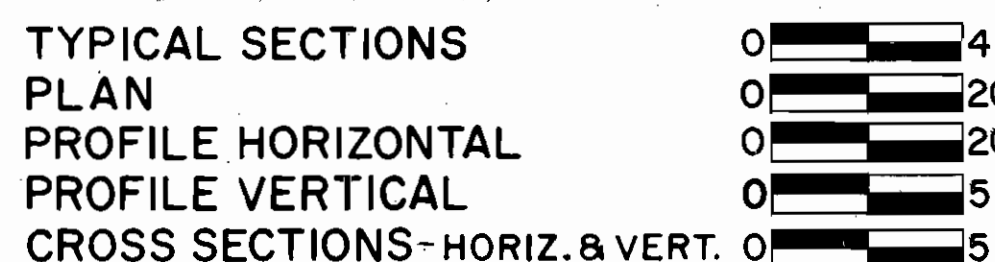
Browning Crow
BROWNING CROW



LOCATION MAP



SCALES



DESIGN DESIGNATION

1975 A.D.T.	22,187
2000 A.D.T.	14,400
D.H.V.	1440
D. (DIRECTIONAL DISTRIBUTION)	52 %
T. (PERCENT B & C TRUCKS)	7 %
V. (DESIGN SPEED)	50 M.P.H.

SUPPLEMENTAL SPECIFICATIONS

NUMBER	DATE	NUMBER	DATE
801	1-15-78		
836	3-12-75	1001	1-3-77
839	11-25-70		
844	11-8-74		
847	4-3-76		
853	6-26-78		
903	1-1-69		
924	9-23-74		
956	6-26-78		

FILE NO.	CUYAHOGA COUNTY NO. _____
	DATE OF LETTING _____ 197 _____
	CONTRACT NO. _____

DATE: 6/25/79
CHECKED BY: *Shirley L. Laska*
DATE: 6/25/79
APPROVED BY: *M.A. RISHER BY J.L. Laska*
ENGINEER OF DESIGN

DATE: 6/25/79
APPROVED BY: *Thomas McSherry Co*
LAND DEPUTY

STANDARD CONSTRUCTION DRAWINGS

NUMBER	DATE	NUMBER	DATE
AS-1-72	6-30-72	MC-6	6-1-65
BP-5	4-16-79	MH-1	6-12-75
BP-7	12-6-76	SD-1-69	6-12-69
HL-2	7-27-73	TC-41.20	3-26-79
HL-3	7-27-73	TC-71.10	4-9-79
HL-5	9-6-73	TC-35.10	10-5-77
HL-7	1-21-76	MC-9	11-1-77
HL-9	3-22-77	EP-3	12-6-76
HL-15	1-21-76	BP-4	12-6-76
HL-16	4-6-73	MC-1	6-13-69
MC-3	6-1-73	MH-3	6-12-75
MC-4	7-26-76	MH-5	6-12-75

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED
DIVISION ADMINISTRATOR _____ DATE _____

Rev. 7-11-80

SCHEMATIC PLAN

FHWA REGION	STATE	PROJECT
5	OHIO	

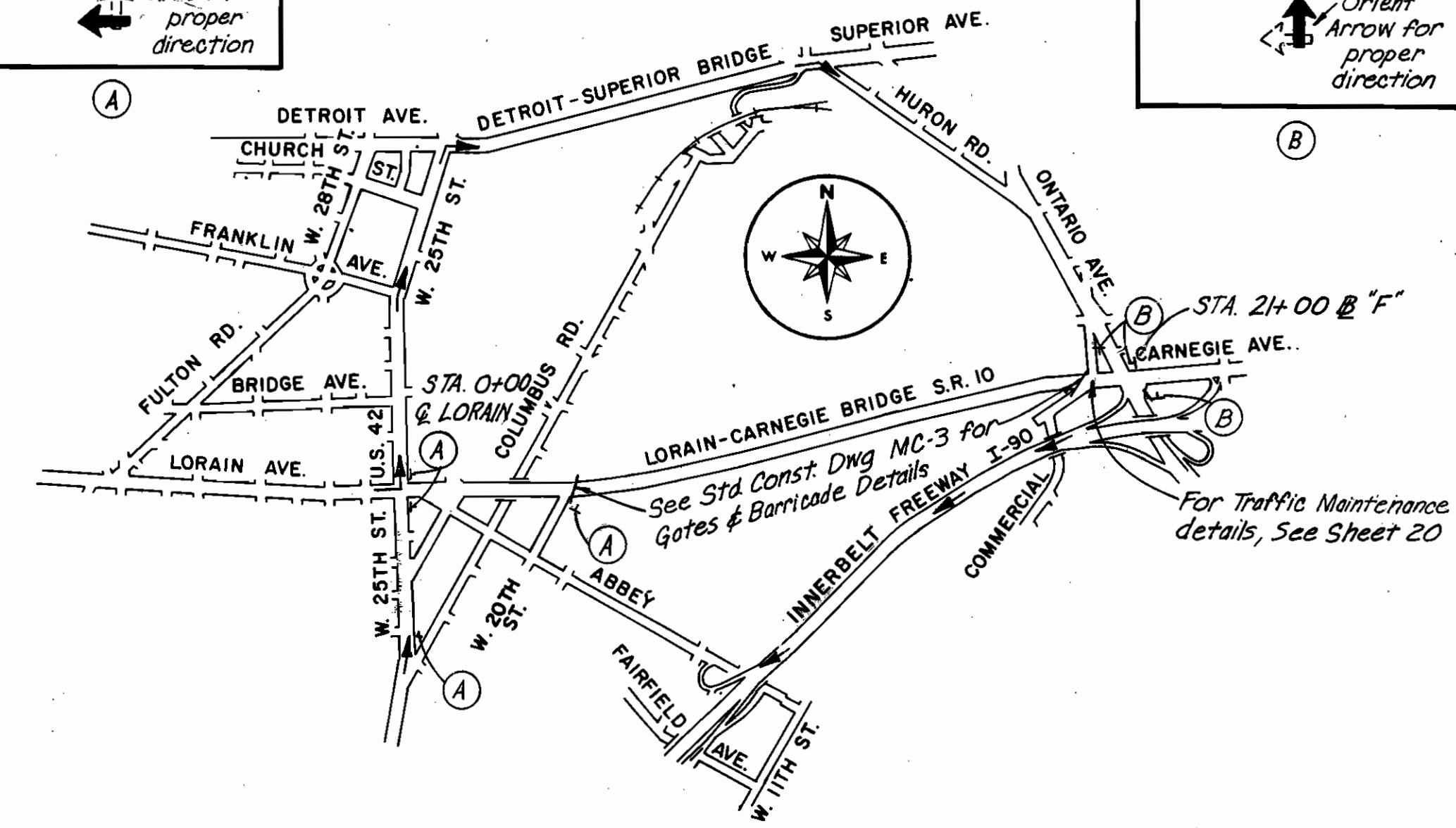
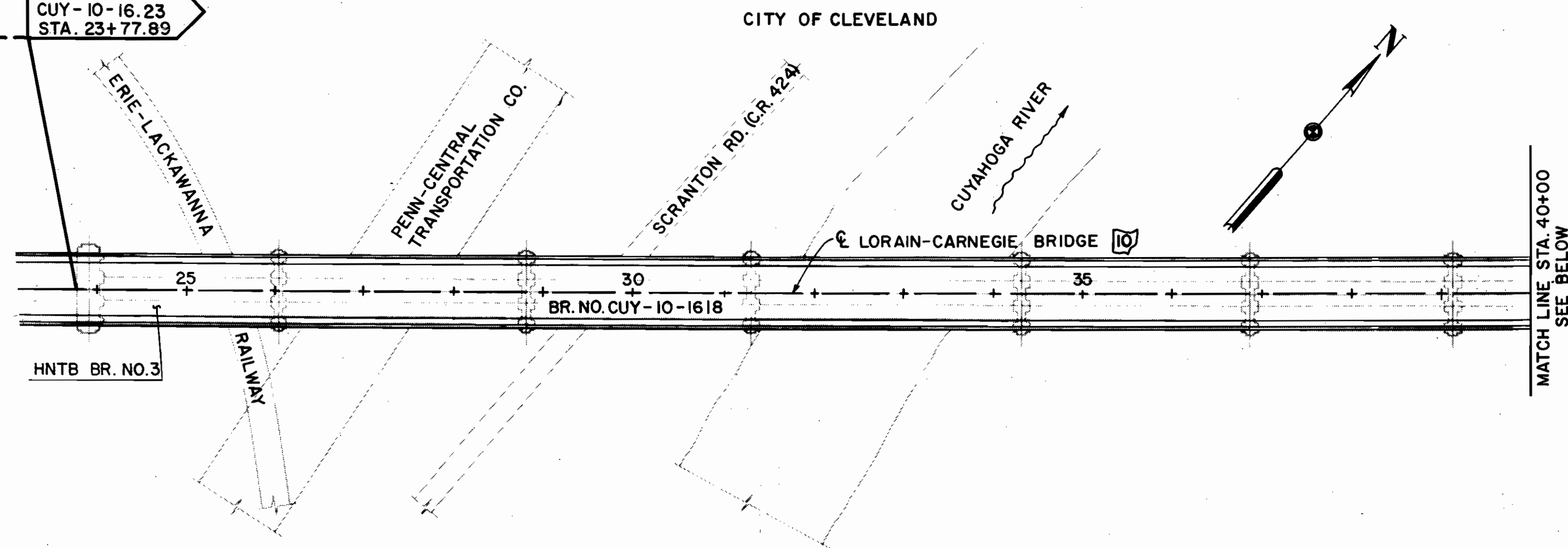
CUYAHOGA COUNTY
CUY-10-16.23

LORAIN - CARNEGIE
BRIDGE CLOSED
USE I-90 SOUTH
TO ABBEY RD EXIT
Orient Arrow for
proper
direction

LORAIN - CARNEGIE
BRIDGE CLOSED
USE W 25 TH ST
TO DETROIT SUPERIOR
BRIDGE
Orient Arrow for
proper
direction

END F-69(21) BEGIN IX-69(22)
END PROJECT CUY-10-16.05 BEGIN PROJECT CUY-10-16.23 STA. 23+77.89

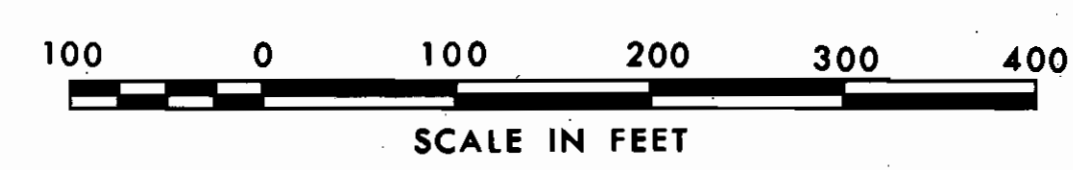
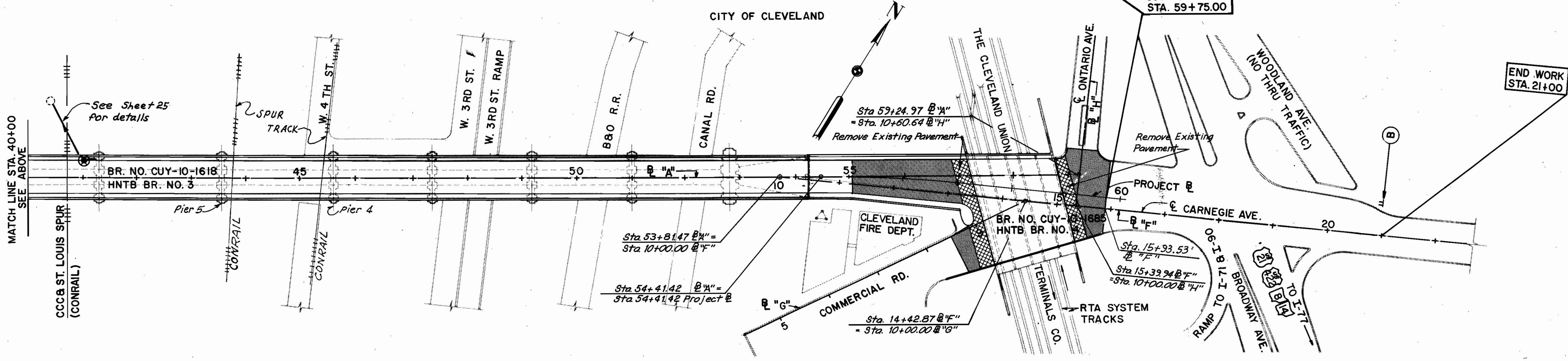
BEGIN WORK STA. 0+00 @ LORAIN AVE.
(Detour Signing)



DETOUR PLAN
No Scale

END IX-69(22)
END PROJECT CUY-10-16.23 STA. 59+75.00

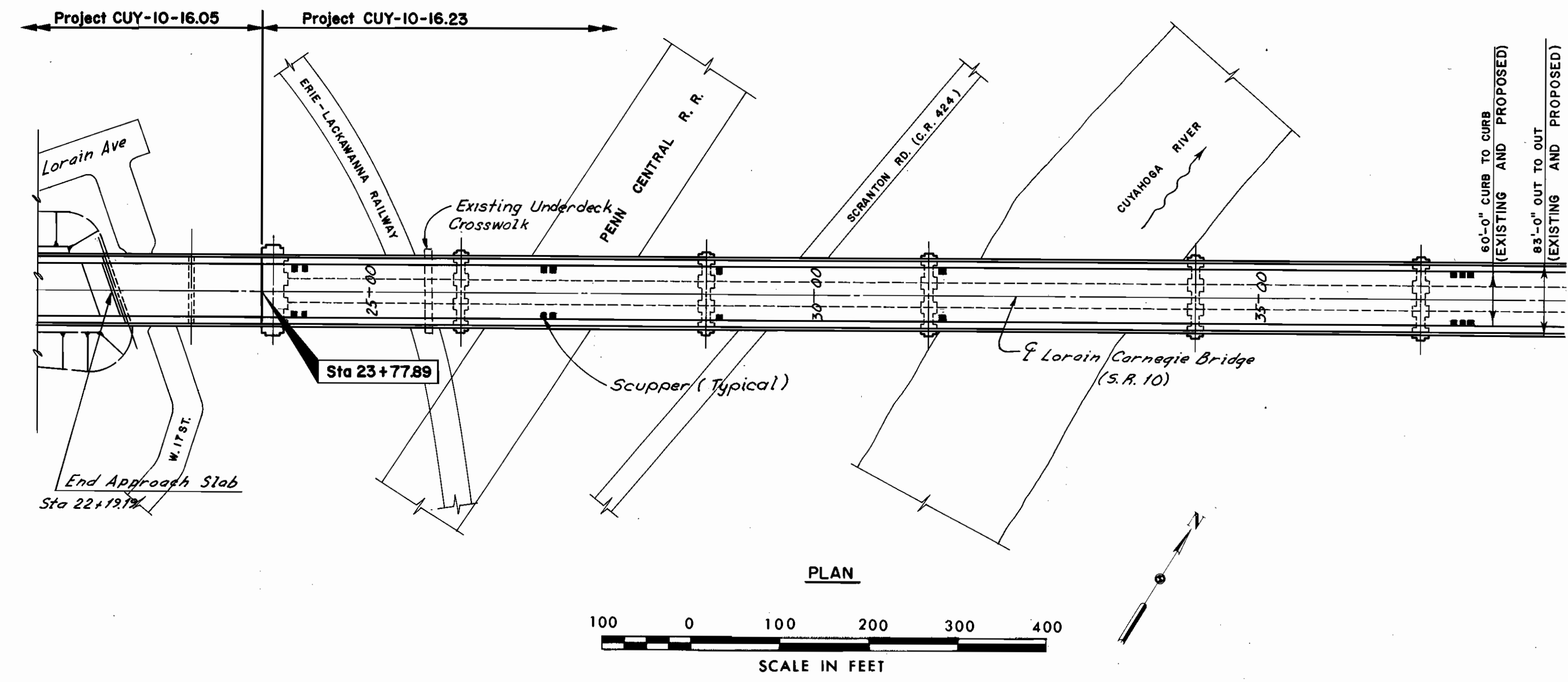
END WORK STA. 21+00



PROJECT CURVE DATA
P.I. STA. 55+69.68 PROJ. @ 6" @ "A"
 $\Delta = 6^{\circ}24'22''$
 $D = 2^{\circ}30'00''$
 $T = 128.26'$
 $R = 2291.83'$
 $L = 256.25'$
 $E = 3.59'$

- LEGEND
- EXISTING CONDITIONS
 - OVERLAY EXISTING PAVEMENT
 - CONSTRUCT NEW APPROACH SLABS
 - PAVEMENT REMOVED
 - SIDEWALK, REMOVED & REPLACED

MICROFILMED
DEC 5 1986

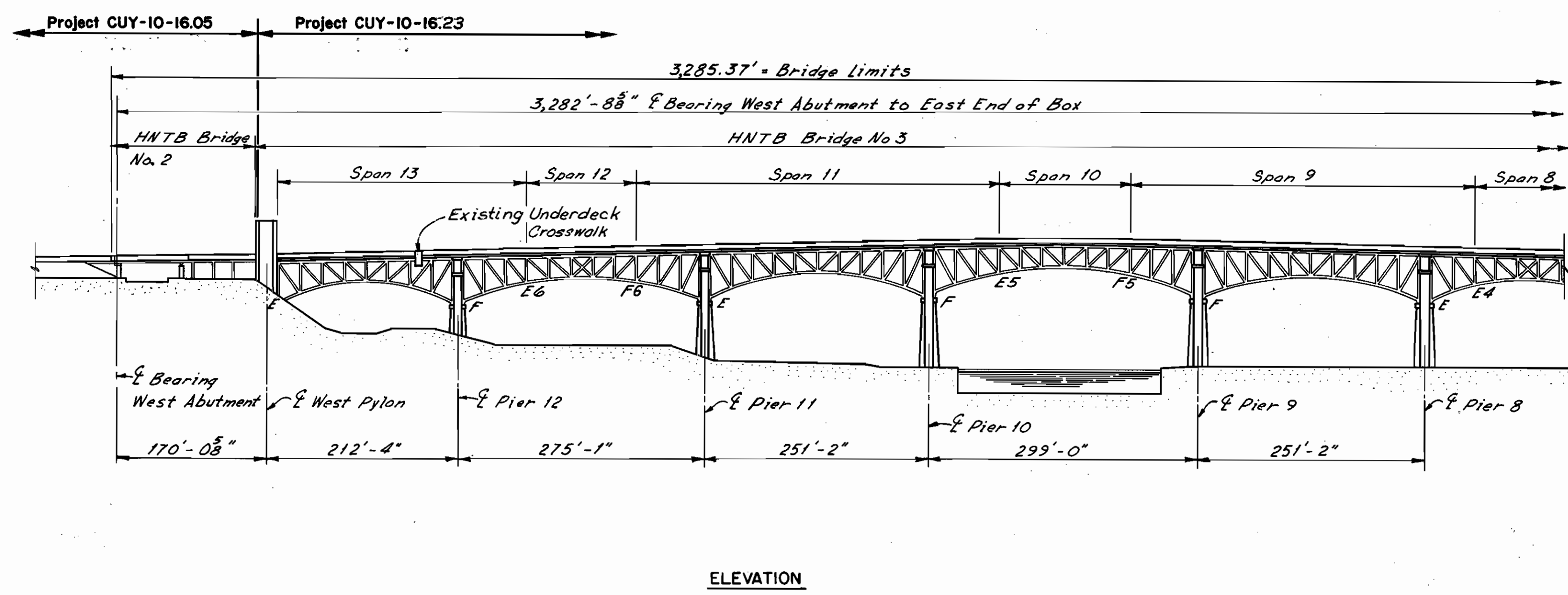
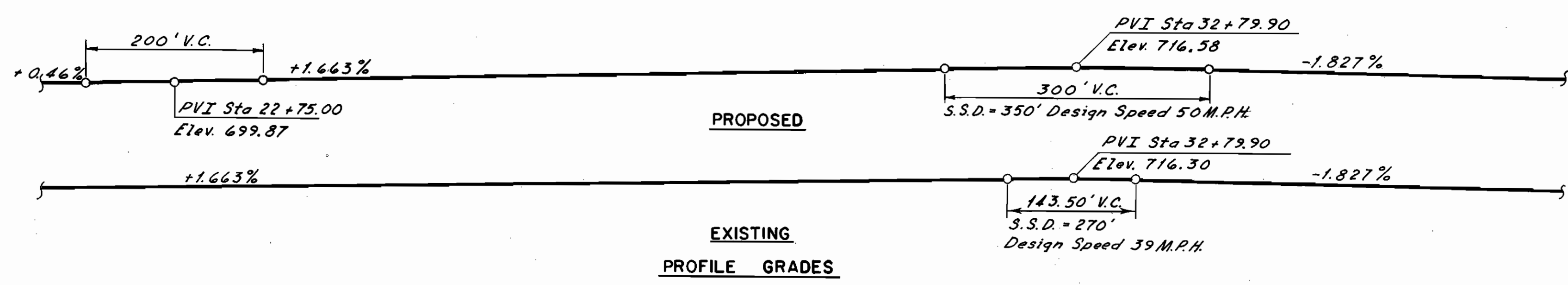


FHWA REGION	STATE	PROJECT	
5	OHIO		

75
185

CUYAHOGA COUNTY
CUY-10-16.23

PROPOSED STRUCTURE DATA ON TRUSSES
BRIDGE NO. CUY-10-1618
TYPE: Steel Deck Trusses with Reinforced Concrete Deck and Substructure.
SPANS: Varies - See Plan and Elevation Sheets 75 & 76
ROADWAY: 60'-0" Curb/Curb with Two 6'-9" Sidewalks.
LOADING: HS 20-44 Case II and The Alternate Military Loading
SKEW: None
WEARING SURF: 2 3/4" Asphalt Concrete (Rubberized)
ALIGN. Tangent



Note:
The existing horizontal and vertical clearances are not permanently affected by this project.
Spans and piers are numbered east to west to be consistent with the original bridge plans.

HNTB BRIDGE NO. 3

HOWARD NEEDLES TAMMEN & BERGENDOFF CONSULTING ENGINEERS CLEVELAND **HNTB**

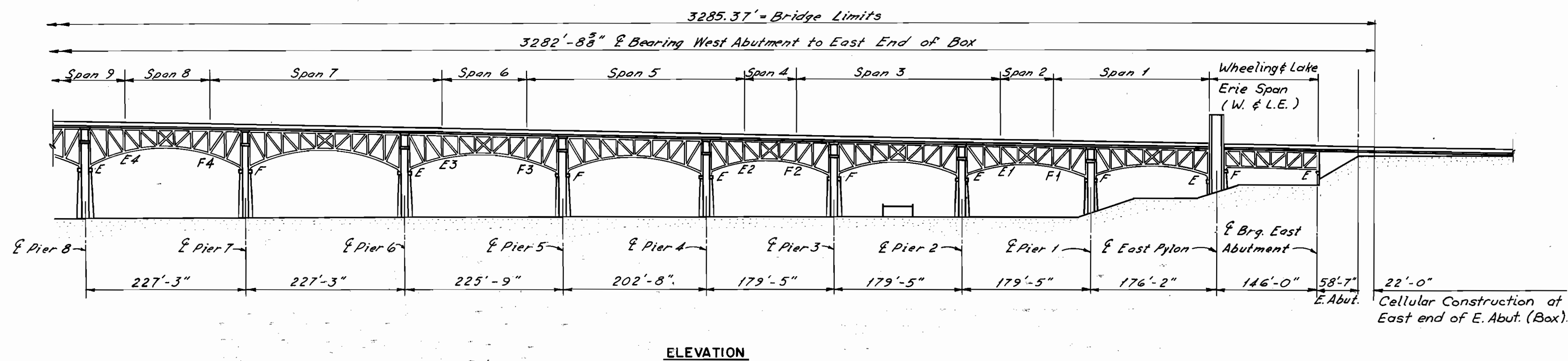
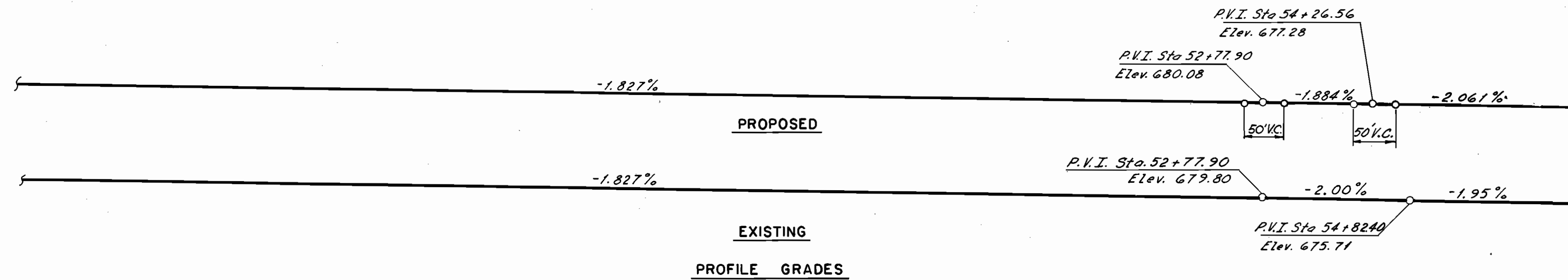
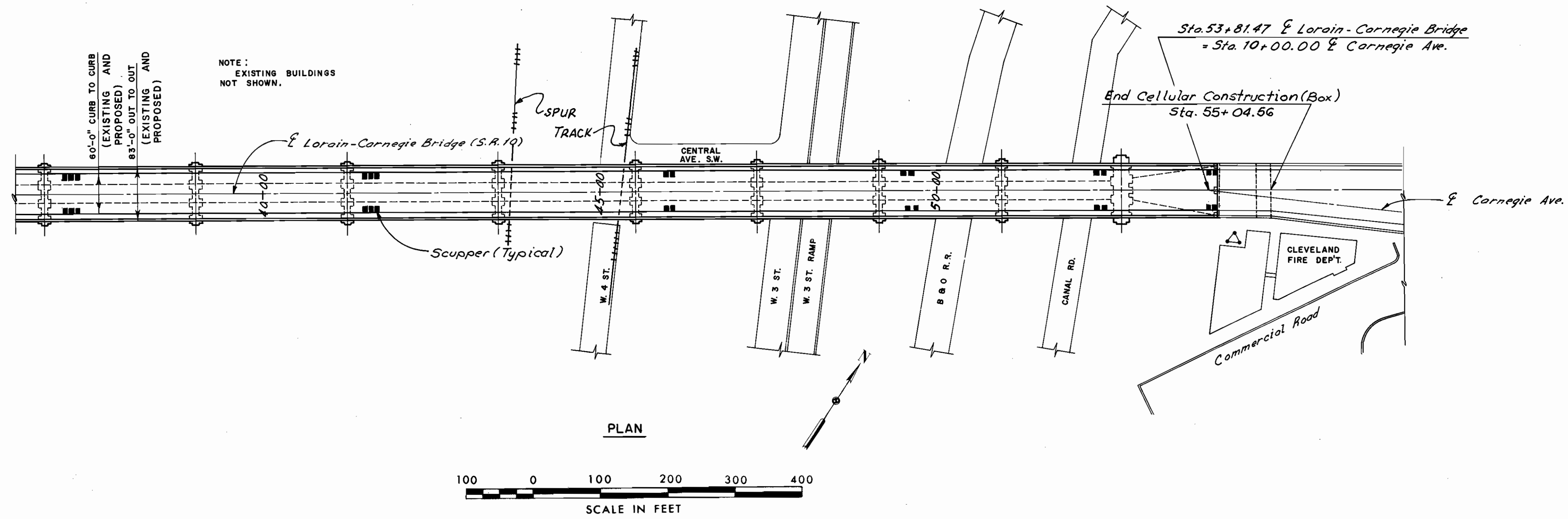
GENERAL PLAN AND ELEVATION

REHABILITATION OF THE
LORAIN-CARNEGIE BRIDGE
(S.R. 10 OVER THE CUYAHOGA RIVER)

BR. NO. CUY-10-1618 STA. 22+19.19
CUYAHOGA COUNTY STA. 55+04.56 OHIO

DRAWN CKB DATE 7-1-78	TRACED LBR DATE 7-6-78	CHECKED R.A.S. DATE 9-20-78	REVIEWED DATE	REVISED DATE
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SHEET 1 72



Note:
The existing horizontal and vertical clearances are not permanently affected by this project.
Spans and piers are numbered east to west, to be consistent with the original bridge plans.

HNTB BRIDGE NO. 3

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
CLEVELAND

HNTB

GENERAL PLAN AND ELEVATION

REHABILITATION OF THE
LORAIN-CARNEGIE BRIDGE
(S.R. 10 OVER THE CUYAHOGA RIVER)

BR. NO. CUY.-10-1618 STA. 22+19.19
CUYAHOGA COUNTY STA. 55+04.56 OHIO

DRAWN CXB	TRACED LBK	CHECKED RAS	REVIEWED	REVISED
DATE 7-1-78	DATE 7-6-78	DATE 9-20-78	DATE	DATE

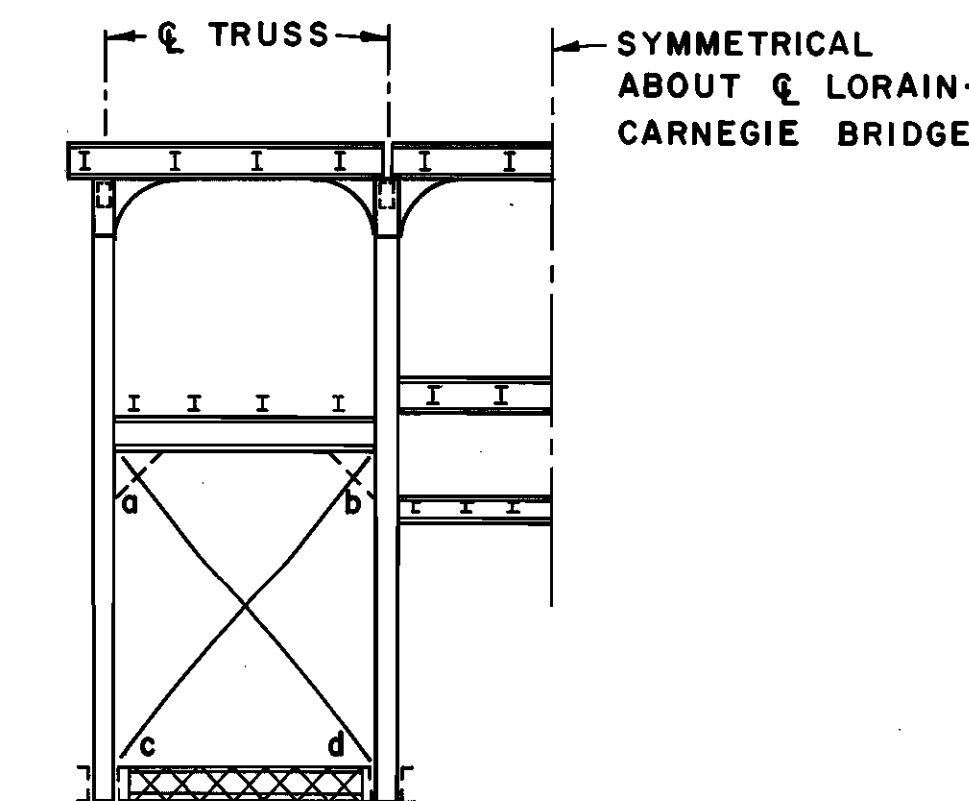
SHEET 2 / 72

DEC 5 1986

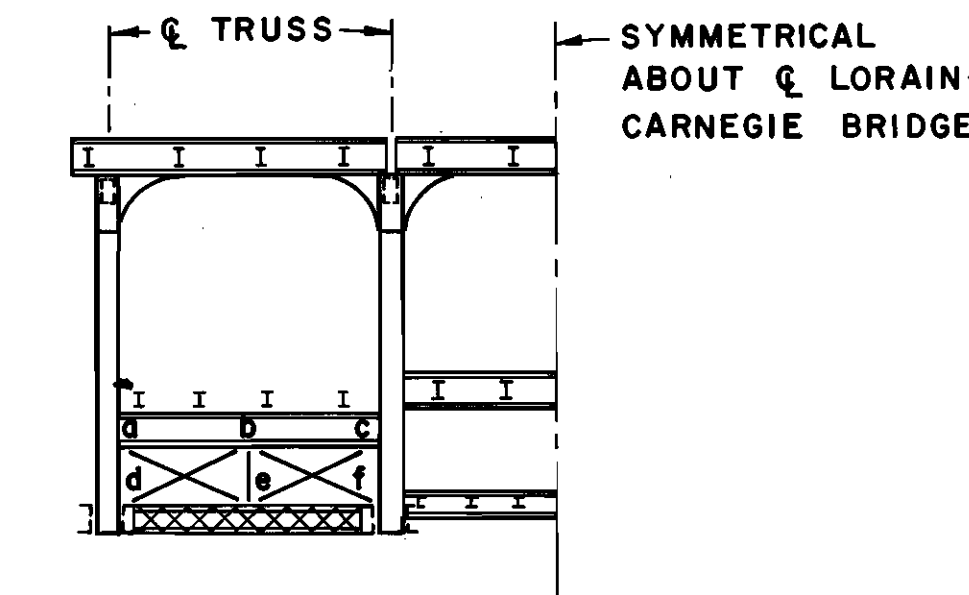
FHWA REGION	STATE	PROJECT
5	OHIO	

79
185

CUYAHOGA COUNTY
CUY-10-16.23



HALF CROSS SECTION THROUGH DEEPER PORTION OF TRUSSES



HALF CROSS SECTION THROUGH SHALLOWER PORTION OF TRUSSES

PORTAL AND SWAY BRACING SPANS 1 THRU 13

LEGEND

- DENOTES FLOORBEAMS
- DENOTES STRINGERS
- E DENOTES EXPANSION JOINT
- F DENOTES FIXED JOINT

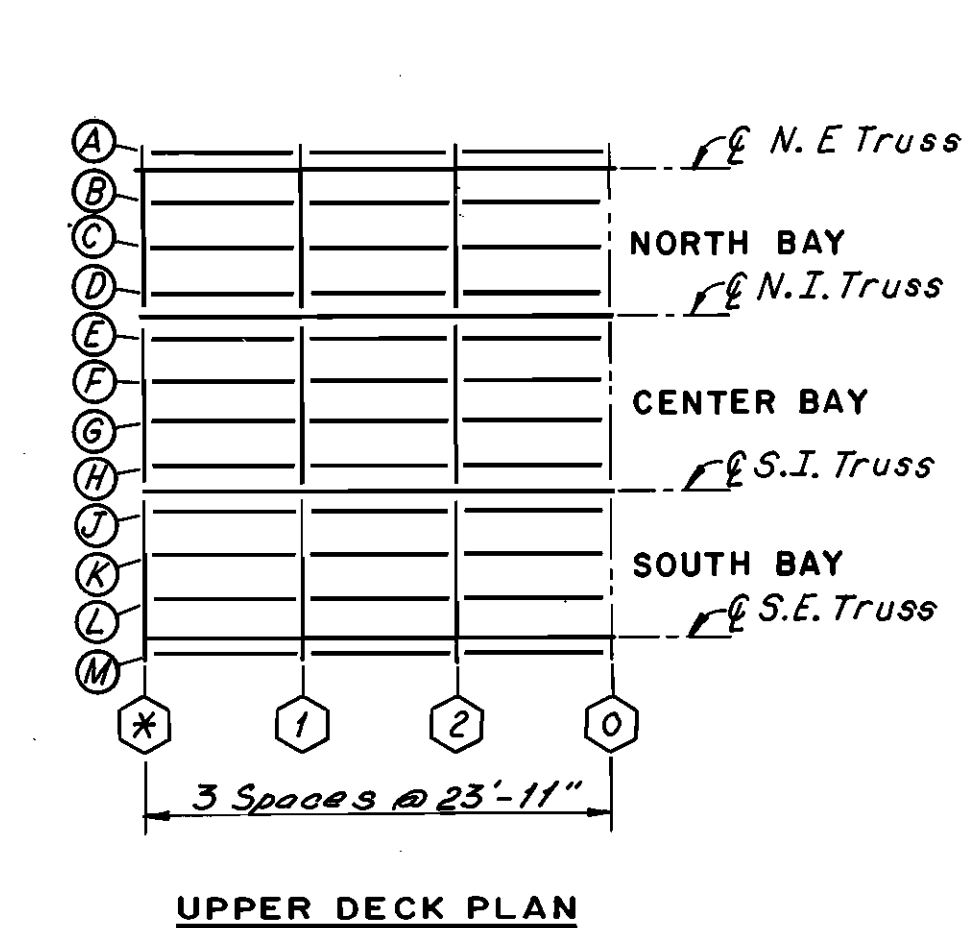
Note:

The following abbreviations are used:
 N.E. = North Exterior
 N.I. = North Interior
 S.I. = South Interior
 S.E. = South Exterior
 For location of spans, see Sheet 2/72

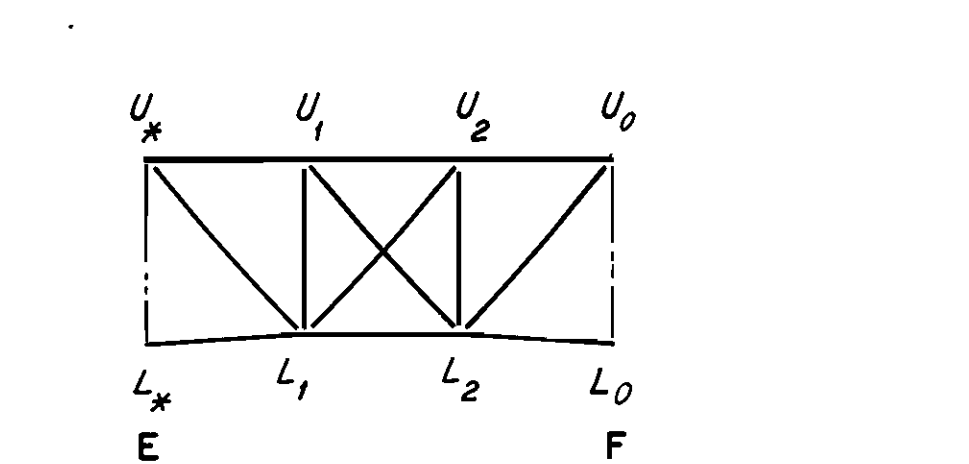
HNTB BRIDGE NO. 3
 HOWARD, NEEDLES, TAMMEN & BERGENDOFF
 CONSULTING ENGINEERS
 CLEVELAND

HNTB
 MEMBER IDENTIFICATION PLANS
 W. & L.E. RAILROAD SPAN,
 SPANS 1, 2 AND 4
 REHABILITATION OF THE
 LORAIN-CARNEGIE BRIDGE
 (S.R. 10 OVER THE CUYAHOGA RIVER)
 BR. NO. CUY-10-1618 STA. 22 + 19.19
 CUYAHOGA COUNTY STA. 55 + 04.56 OHIO

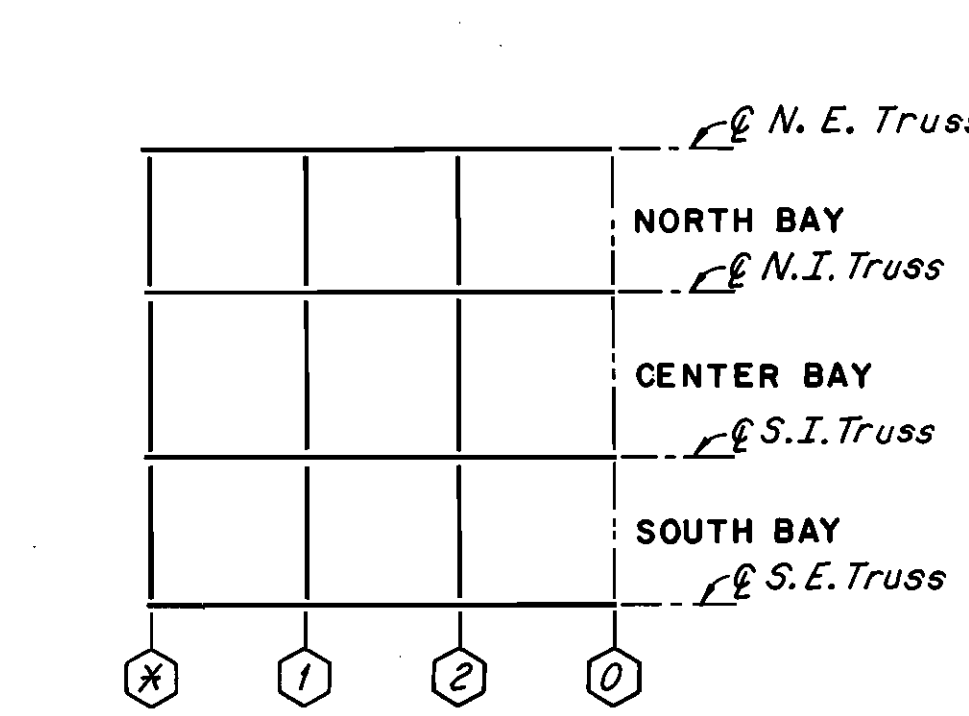
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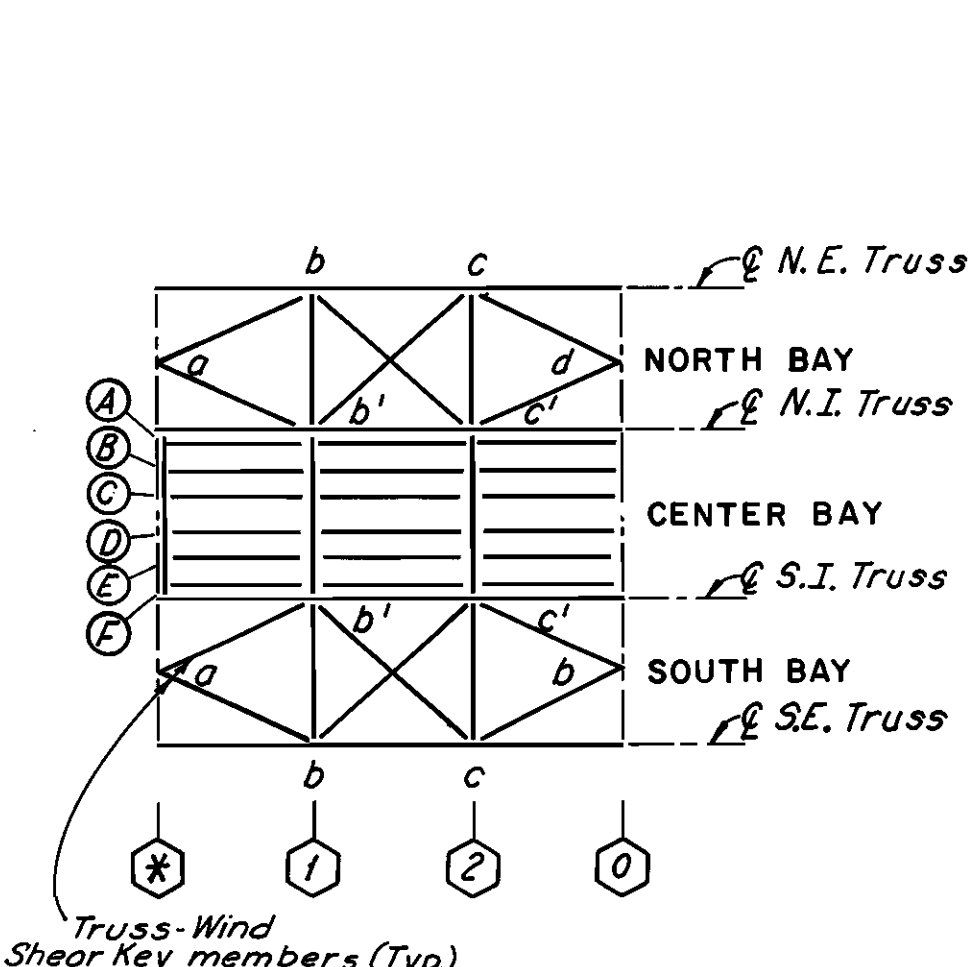
UPPER DECK PLAN



TYPICAL TRUSS ELEVATION



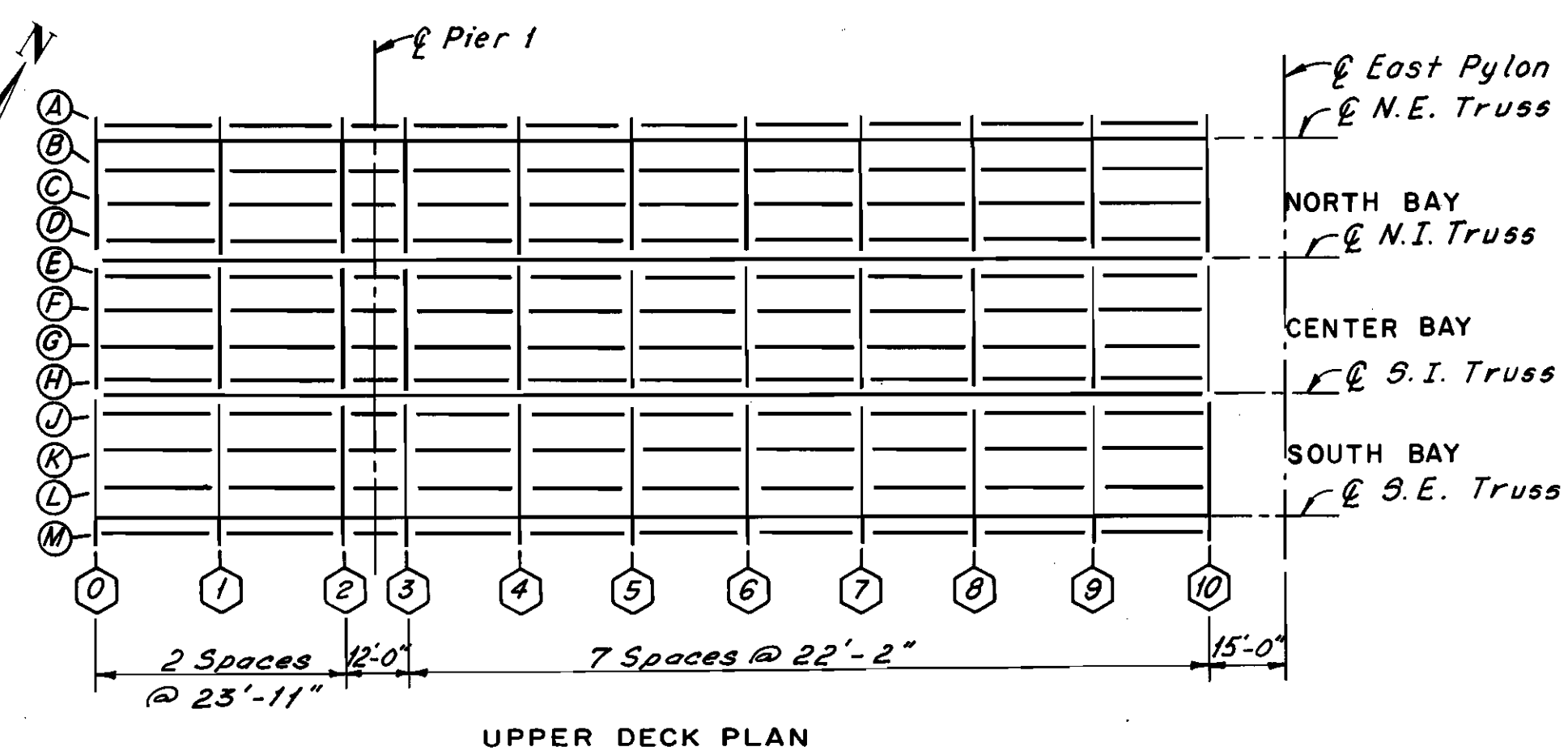
LOWER DECK PLAN



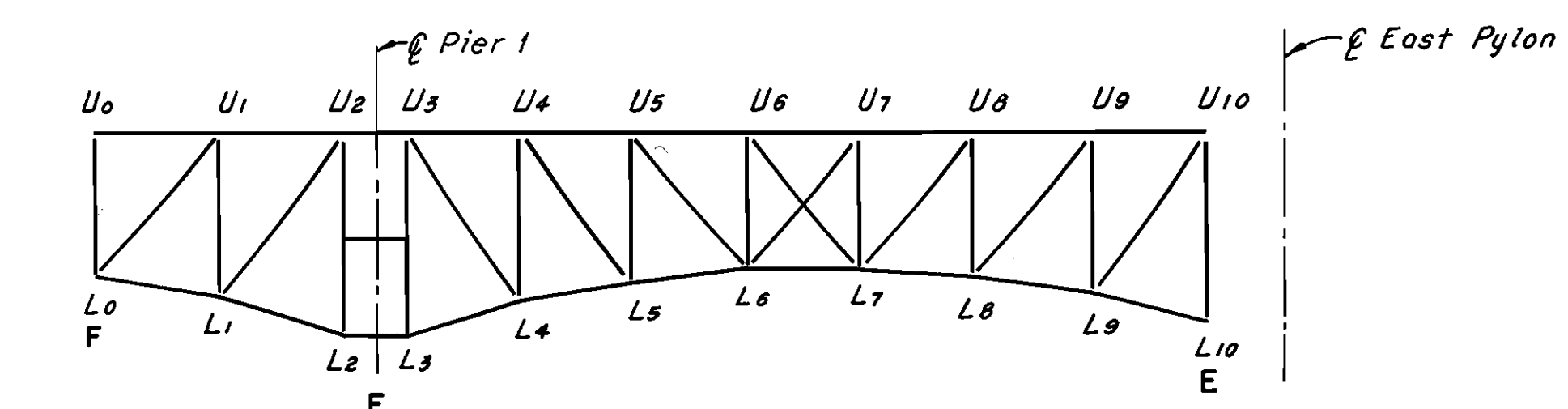
MAINTENANCE AND INSPECTION DECK AND BOTTOM LATERAL PLAN

SPANS 2 AND 4

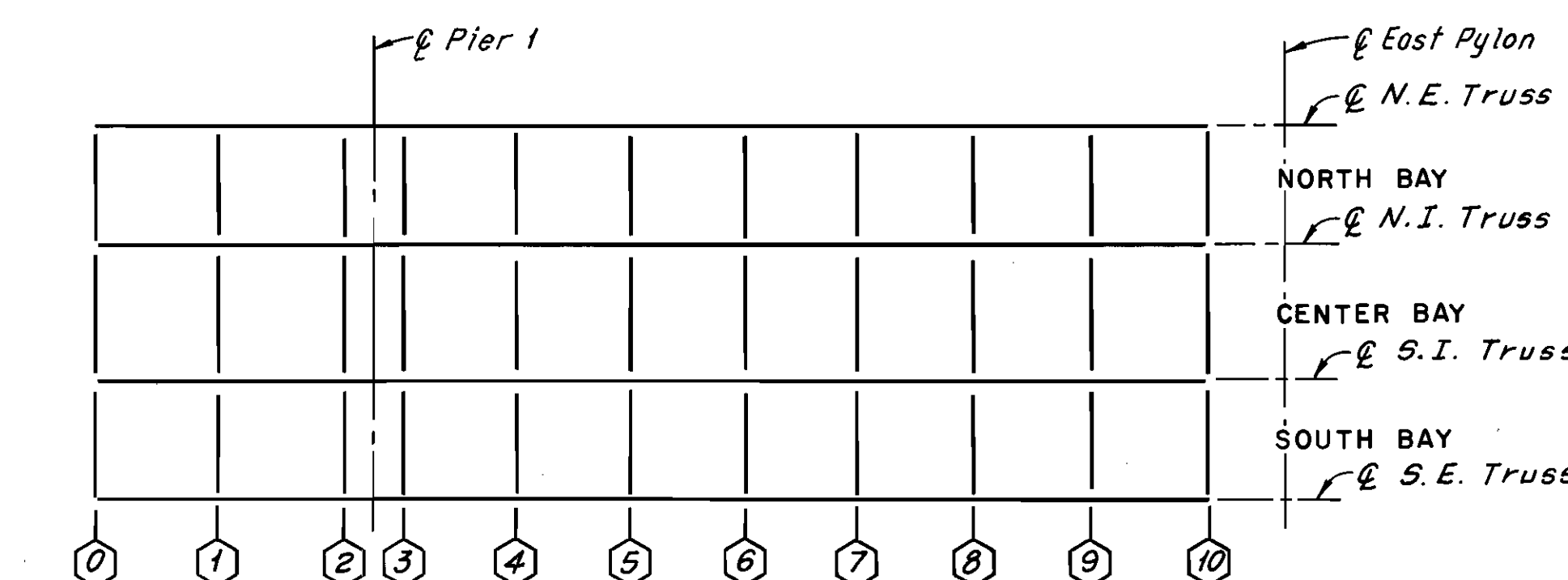
* 14 for Span 2, 15 for Span 4



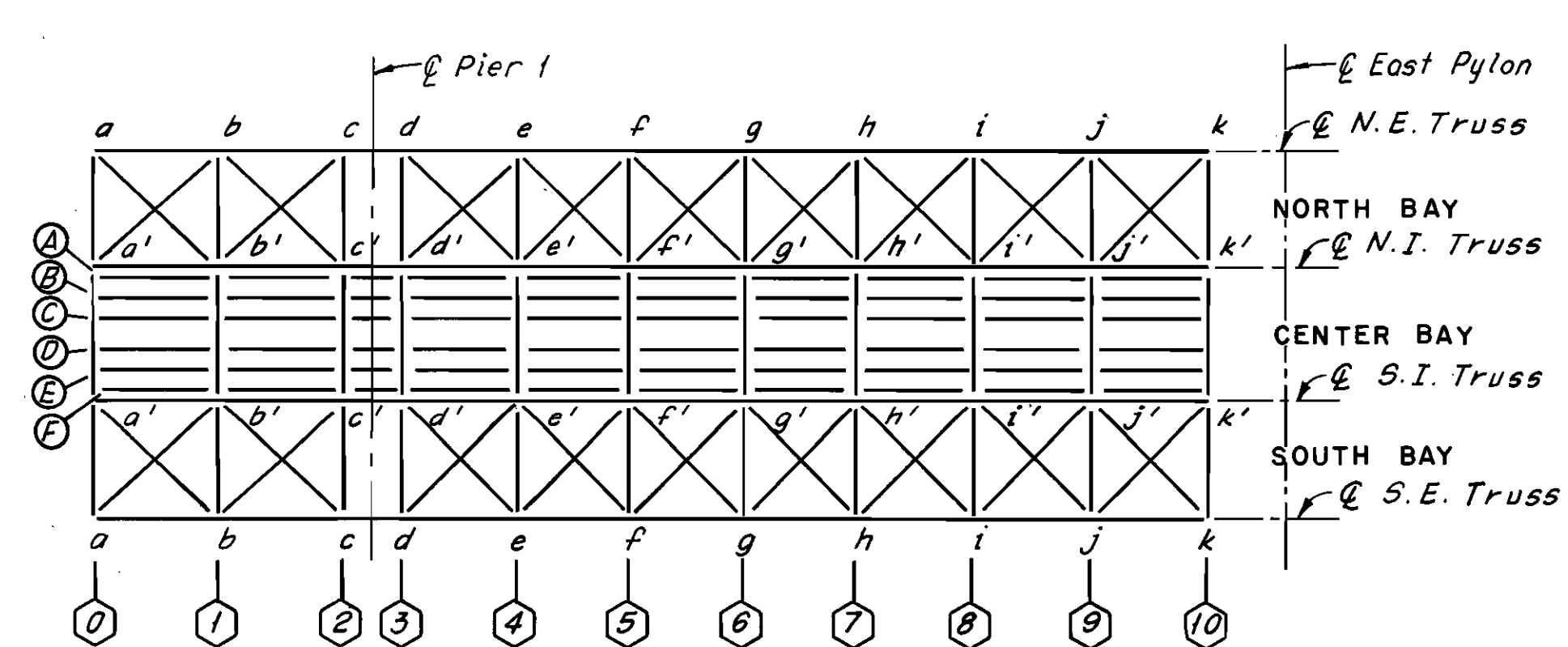
UPPER DECK PLAN



TYPICAL TRUSS ELEVATION

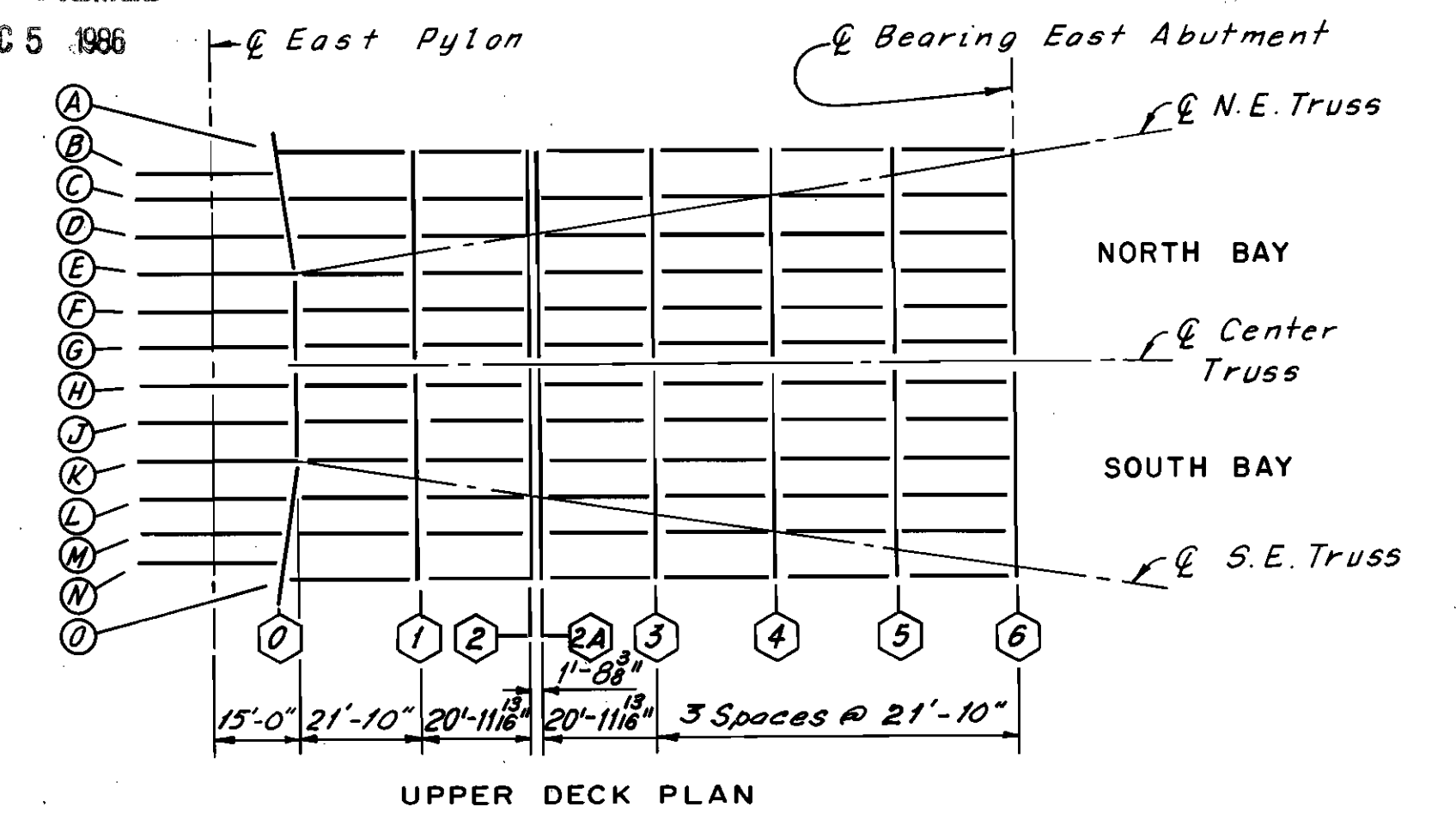


LOWER DECK PLAN

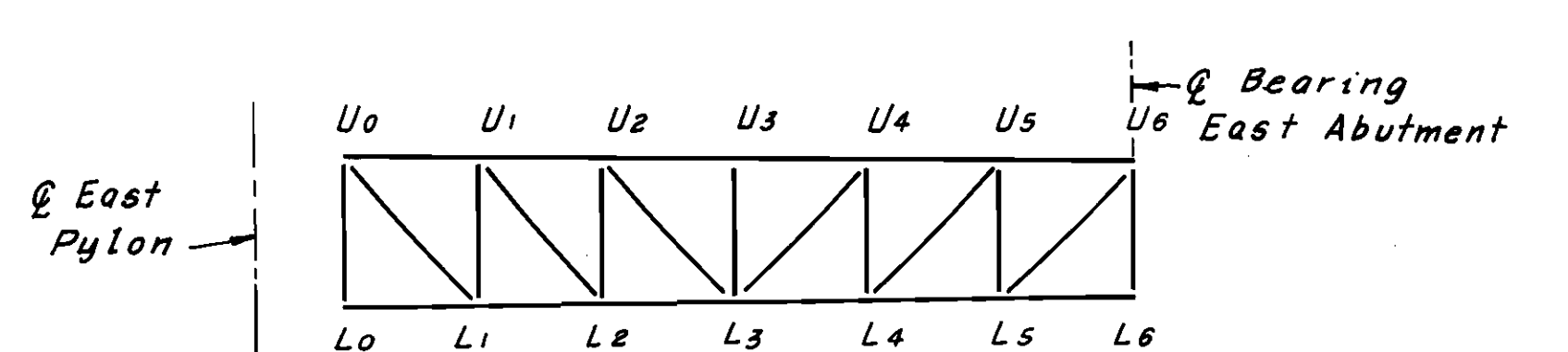


MAINTENANCE AND INSPECTION DECK AND BOTTOM LATERAL PLAN

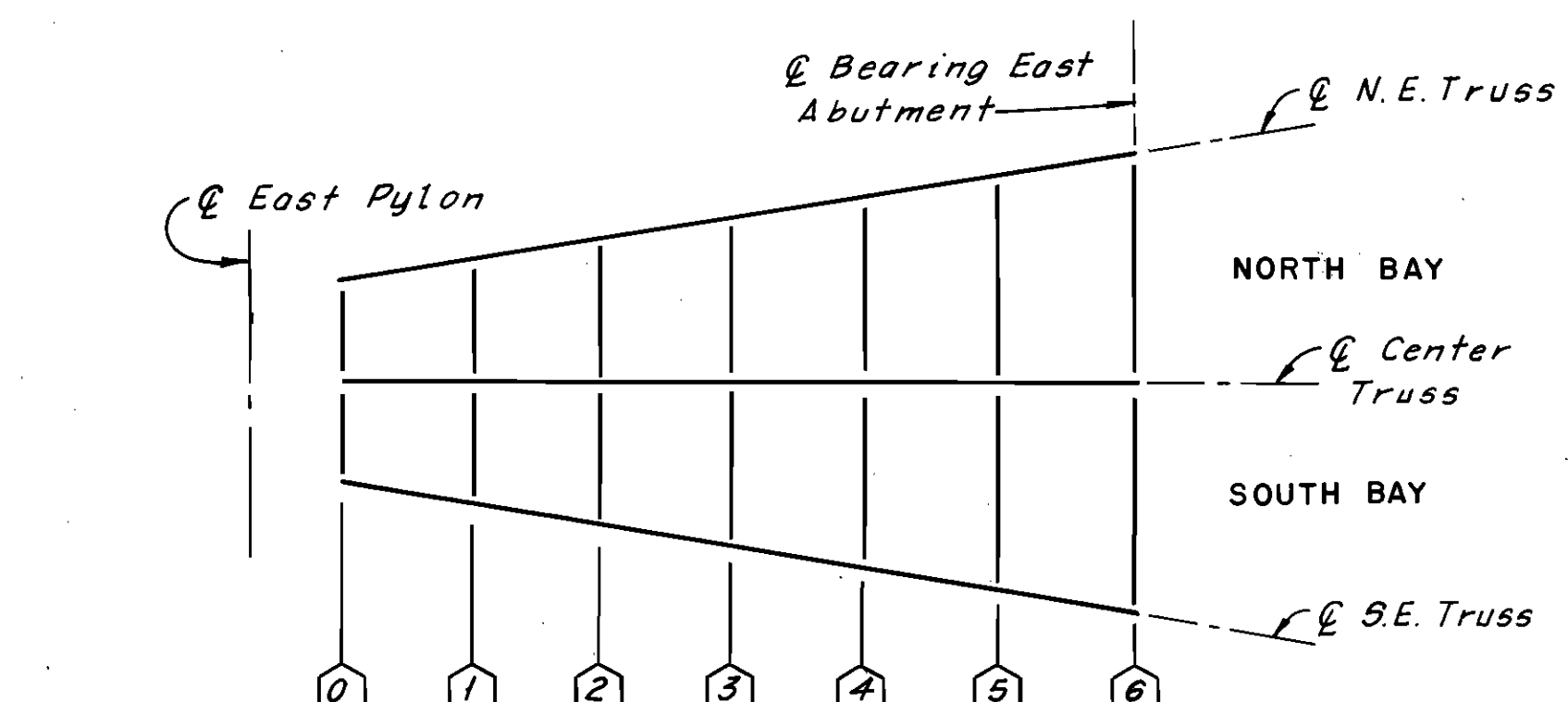
SPAN 1



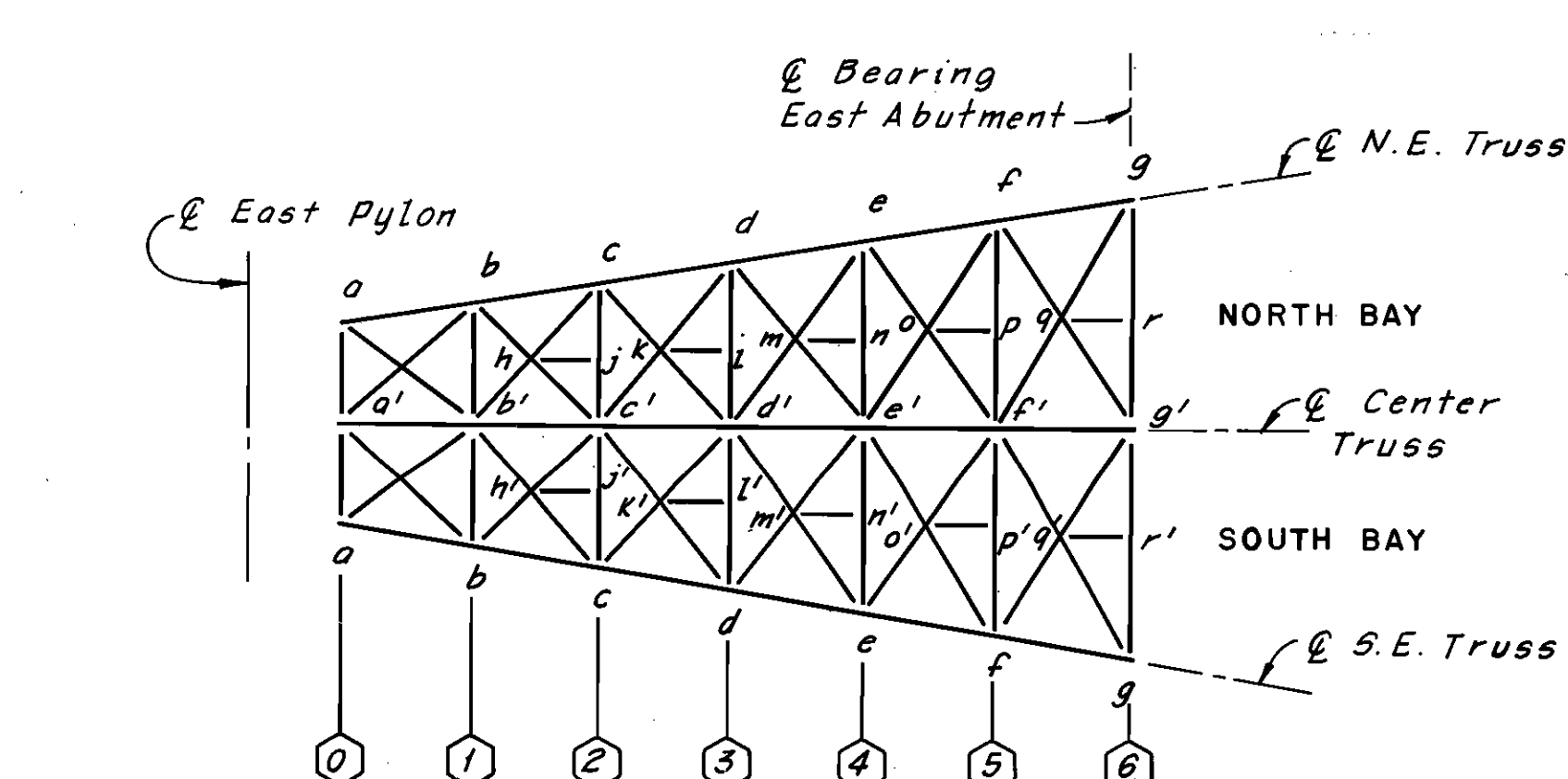
UPPER DECK PLAN



TYPICAL TRUSS ELEVATION



LOWER DECK PLAN

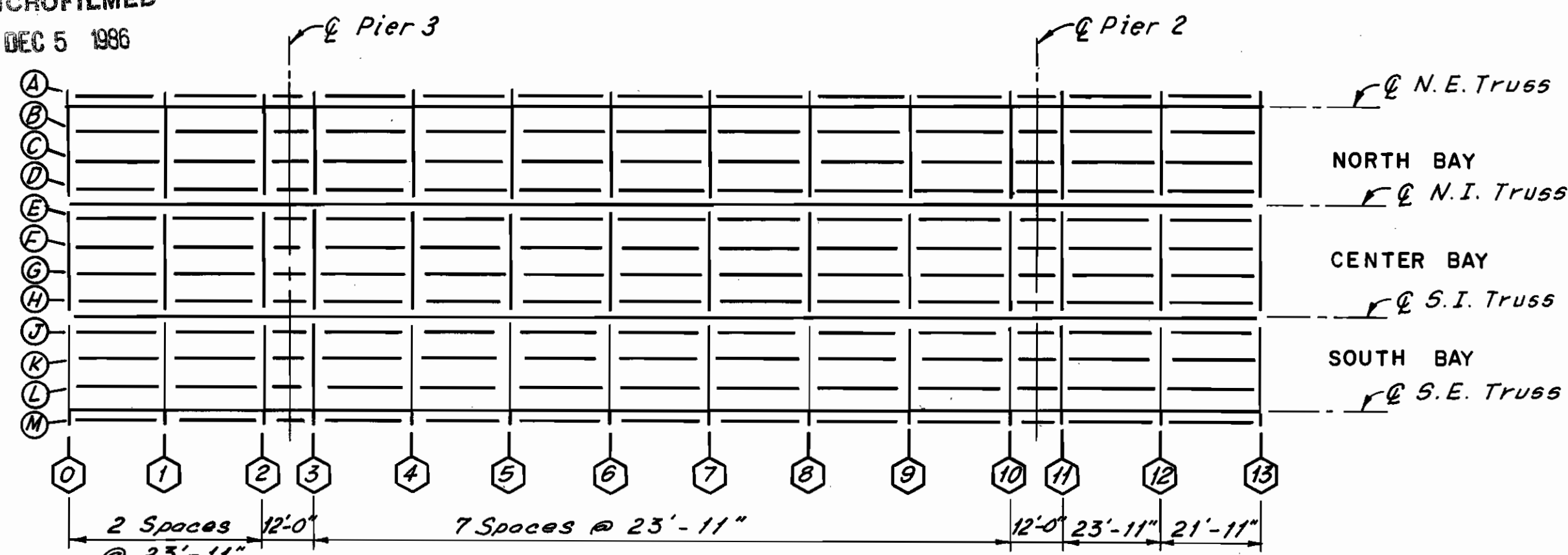


BOTTOM LATERAL PLAN

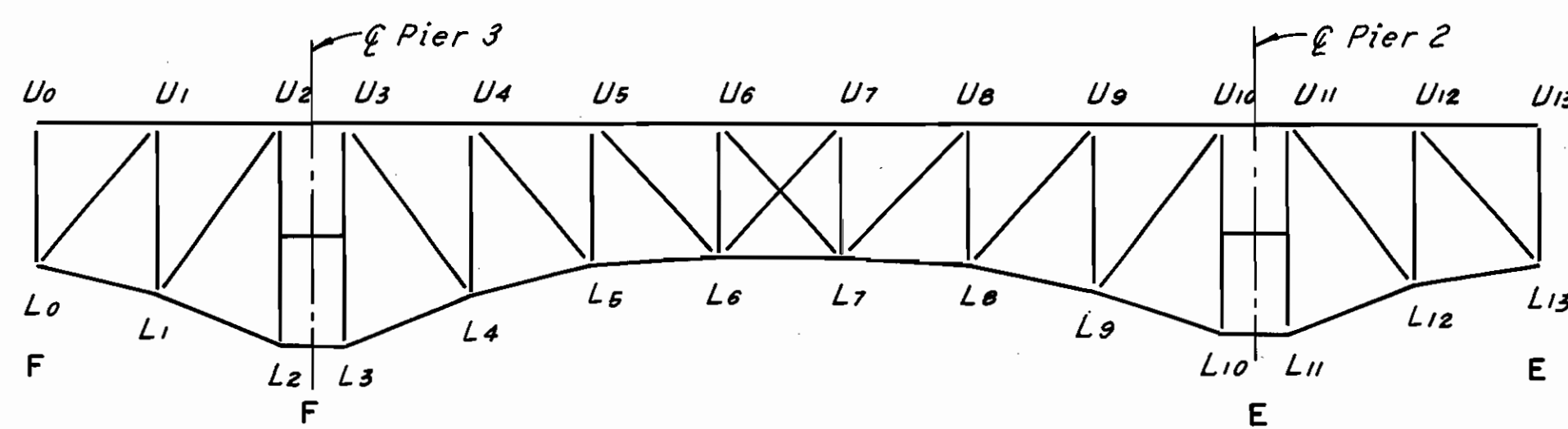
SPAN OVER WHEELING AND LAKE ERIE RAILROAD

MICROFILMED

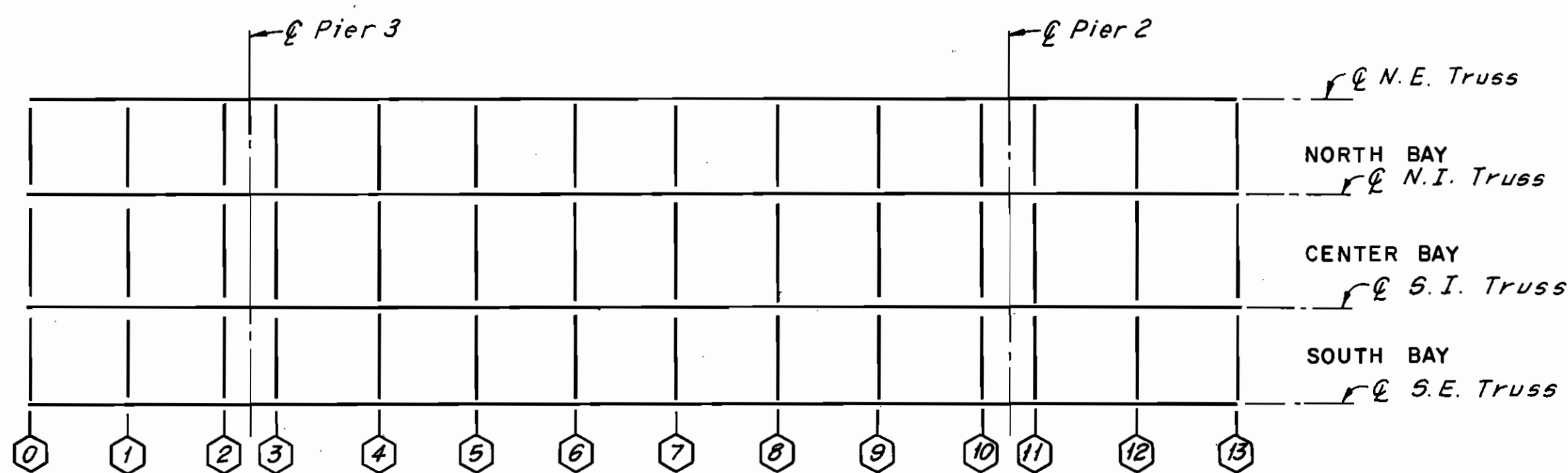
DEC 5 1986



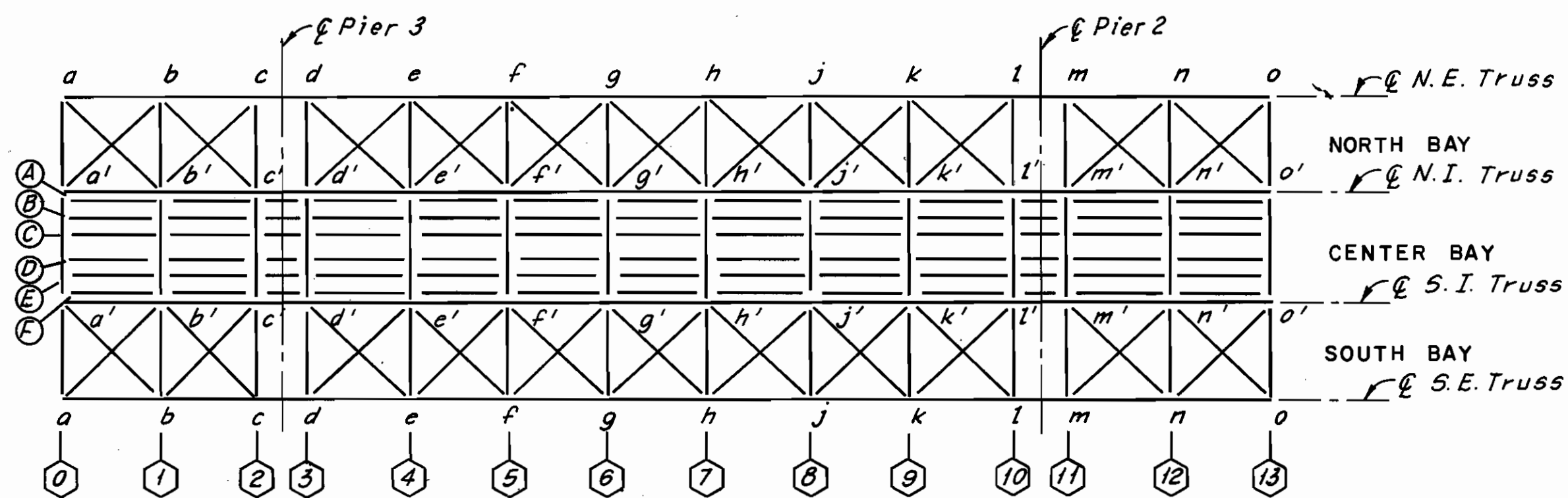
UPPER DECK PLAN



TYPICAL TRUSS ELEVATION

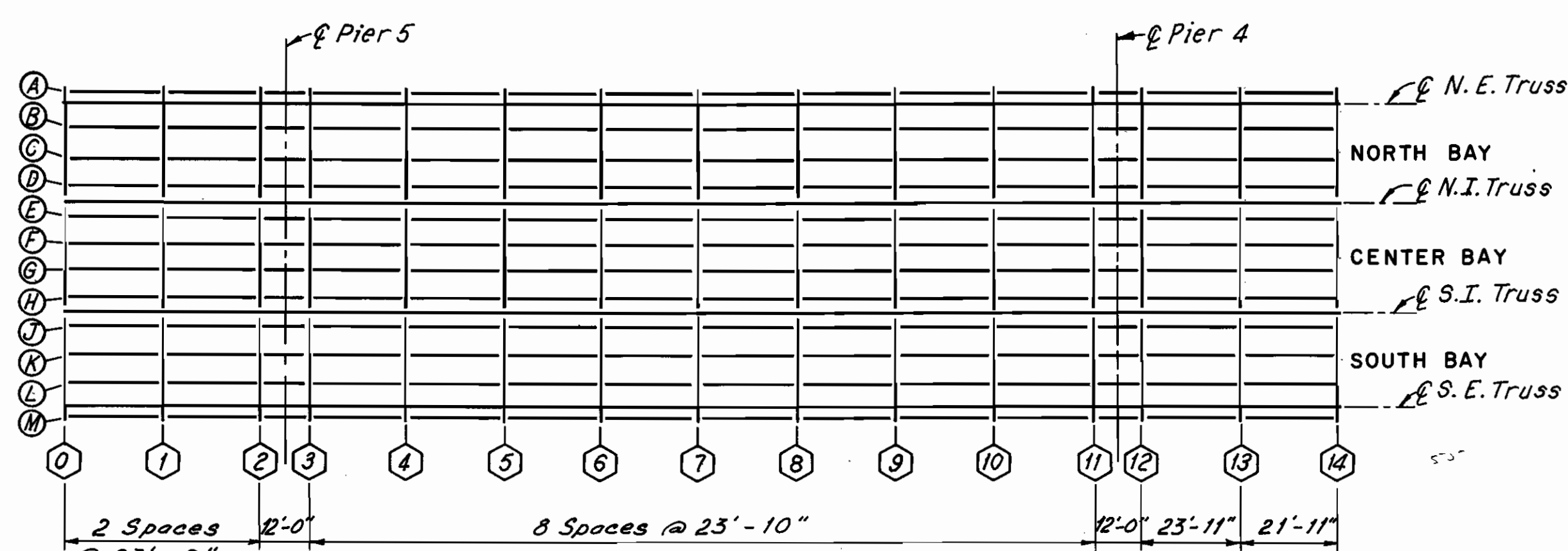


LOWER DECK PLAN

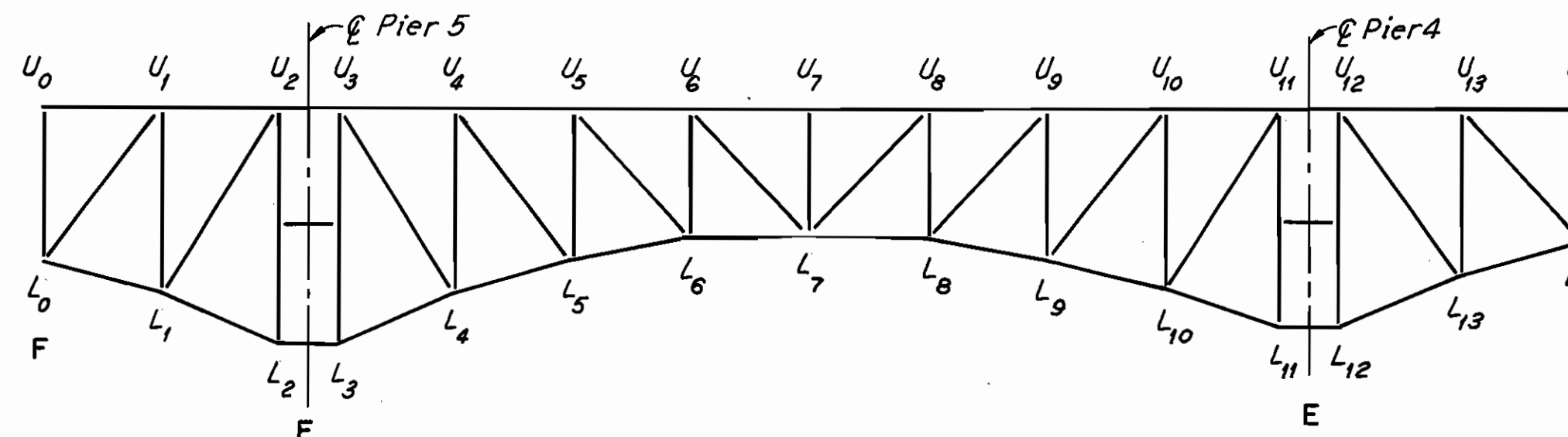


MAINTENANCE AND INSPECTION DECK AND BOTTOM LATERAL PLAN

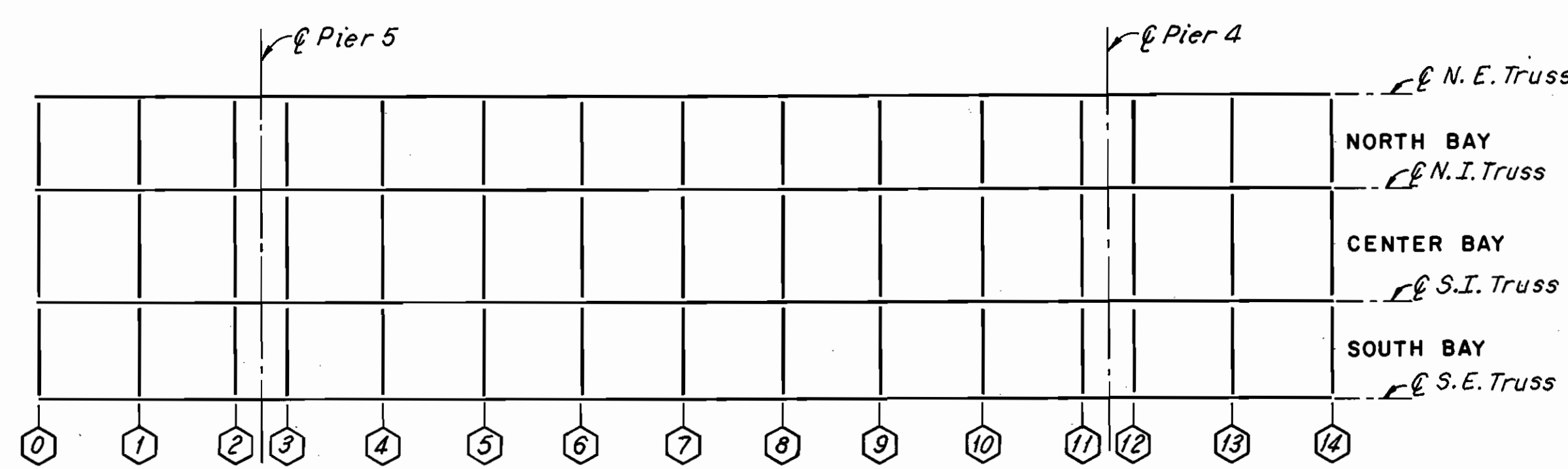
SPAN 3



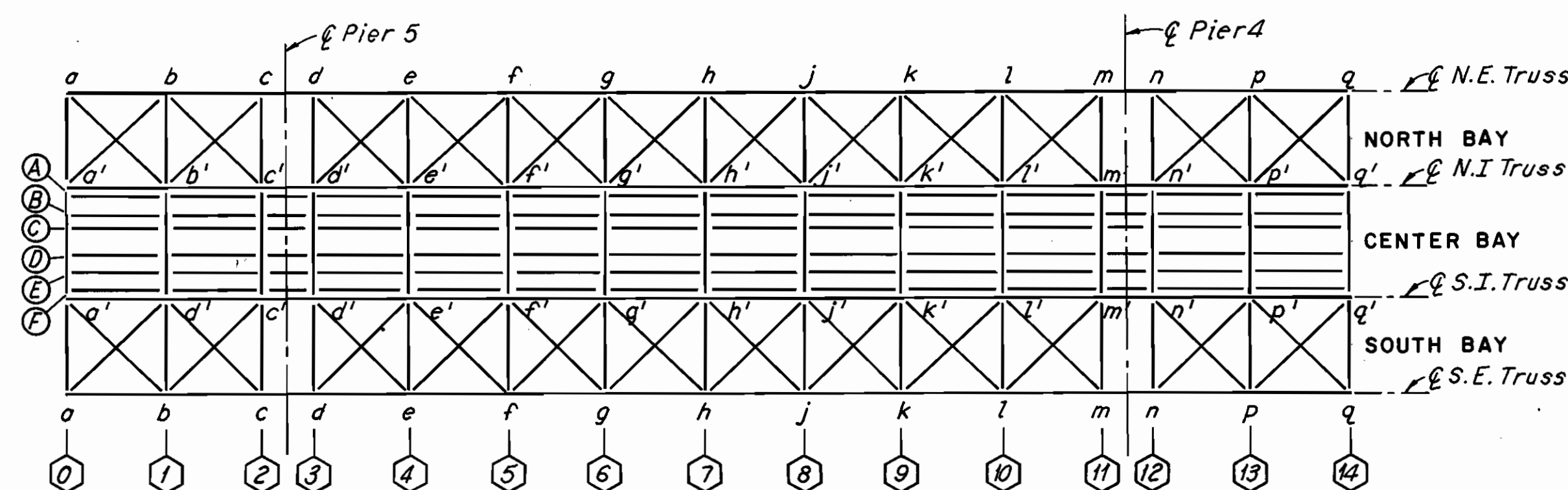
UPPER DECK PLAN



TYPICAL TRUSS ELEVATION



LOWER DECK PLAN



MAINTENANCE AND INSPECTION DECK AND BOTTOM LATERAL PLAN

SPAN 5

FHWA REGION	STATE	PROJECT
5	OHIO	

80
185

CUYAHOGA COUNTY
CUY-10-16.23

LEGEND

- ⬡ DENOTES FLOORBEAMS
- DENOTES STRINGERS
- E DENOTES EXPANSION JOINT
- F DENOTES FIXED JOINT

Notes:
 For Portal and Sway Bracing Identification, see Sheet 5/72.
 The following abbreviations are used:
 N.E. = North Exterior
 N.I. = North Interior
 S.I. = South Interior
 S.E. = South Exterior
 For location of Spans, see Sheet 2/72.

HNTB BRIDGE NO.3

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
CLEVELAND

HNTB

MEMBER IDENTIFICATION PLANS

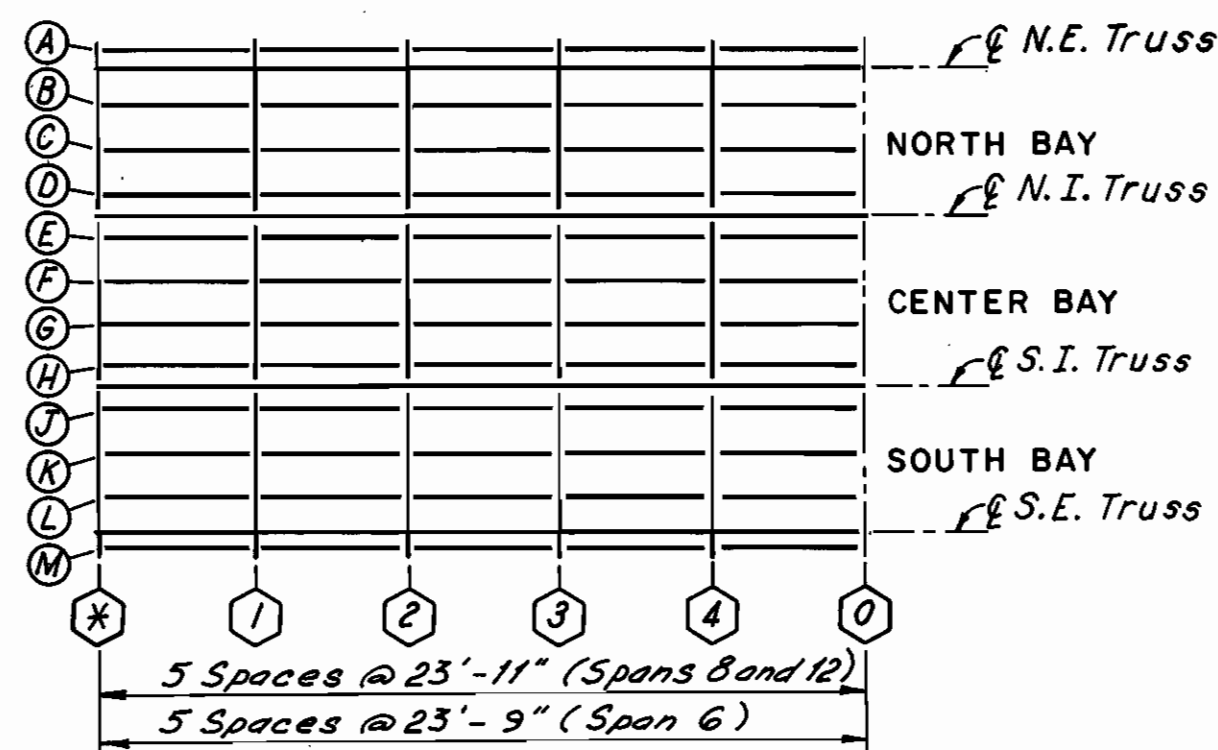
SPANS 3 AND 5
 REHABILITATION OF THE
 LORAIN-CARNEGIE BRIDGE
 (S.R. 10 OVER THE CUYAHOGA RIVER)
 BR. NO. CUY.-10-1618 STA. 22+19.19
 STA. 55+04.56

CUYAHOGA COUNTY OHIO

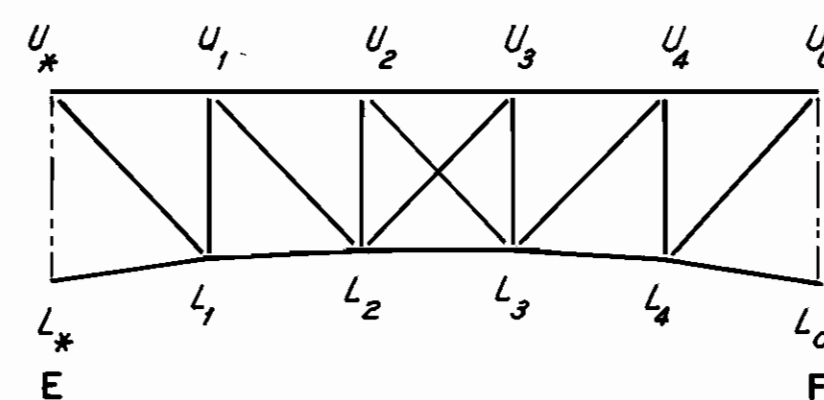
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DATE 2-13-75	DATE 2-14-75	DATE 3-20-75		

SHEET 6/72

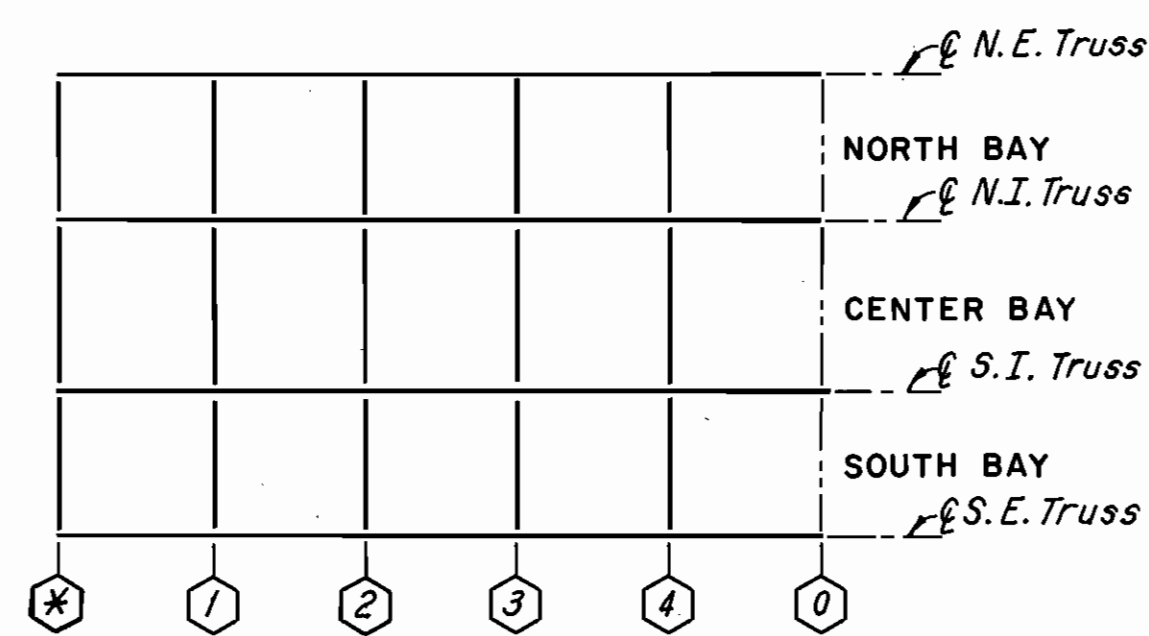
MICROFILMED
DEC 5 1966



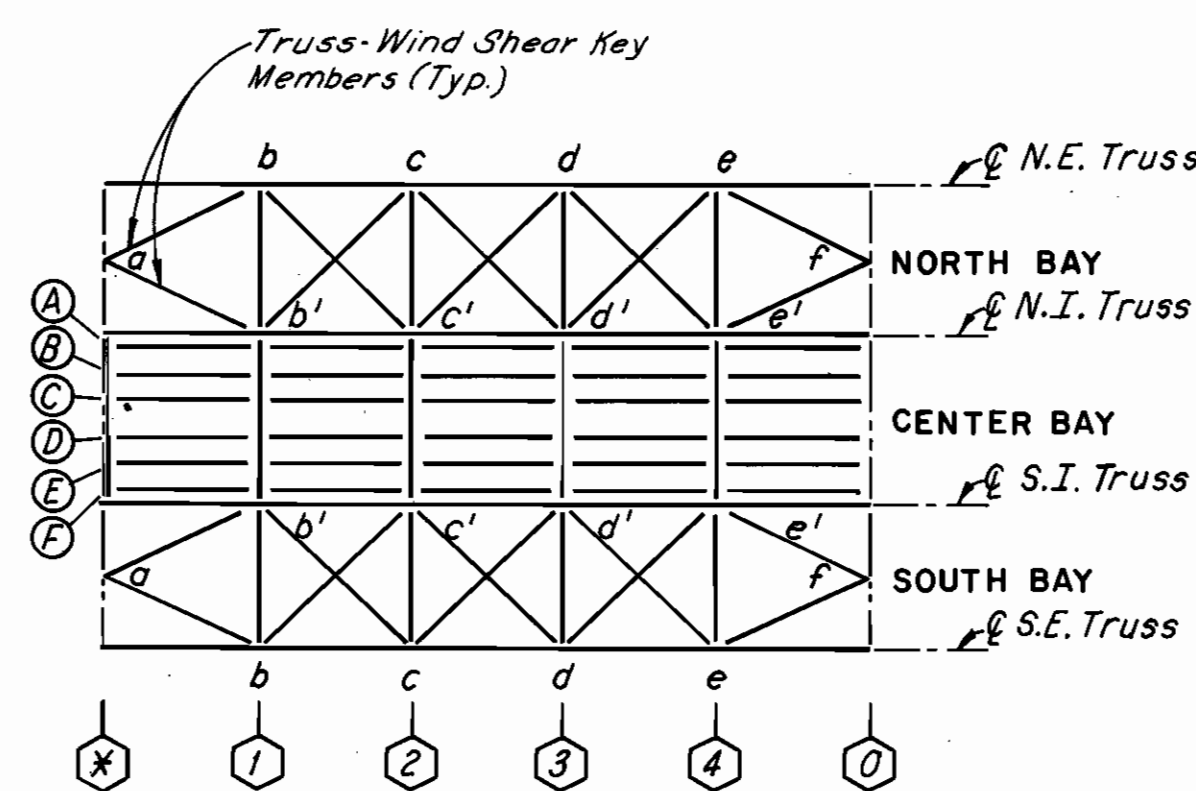
UPPER DECK PLAN



TYPICAL TRUSS ELEVATION



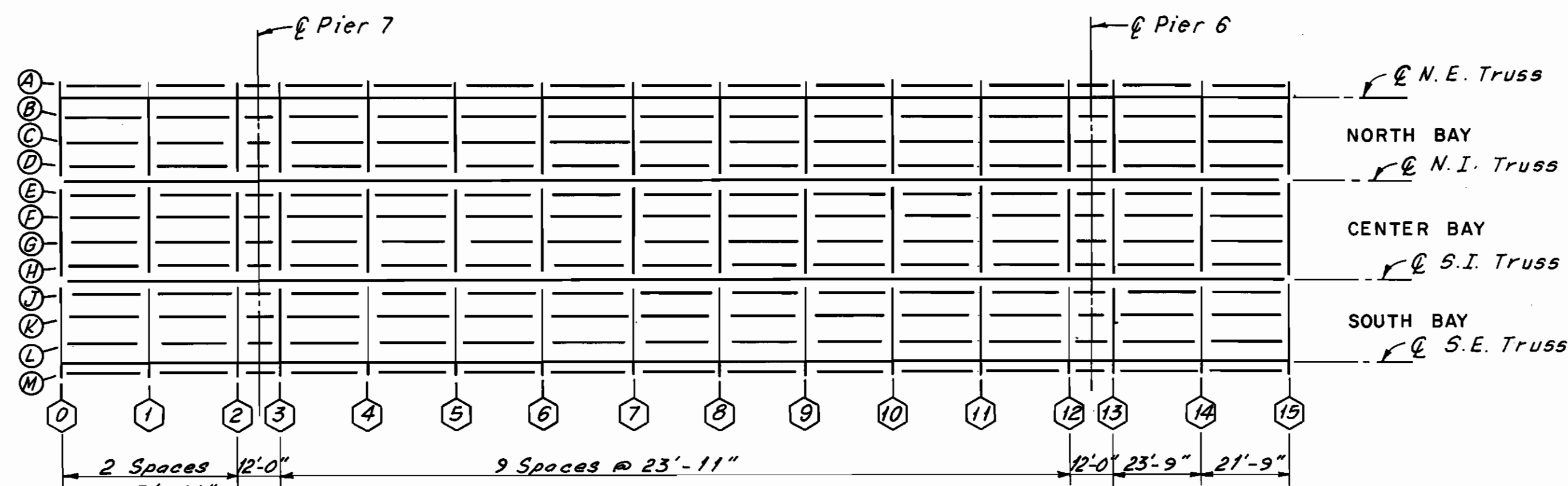
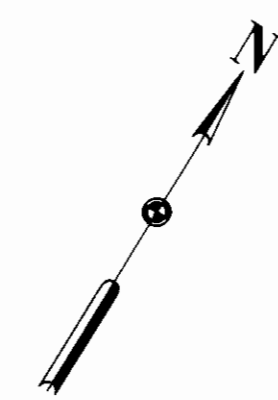
LOWER DECK PLAN



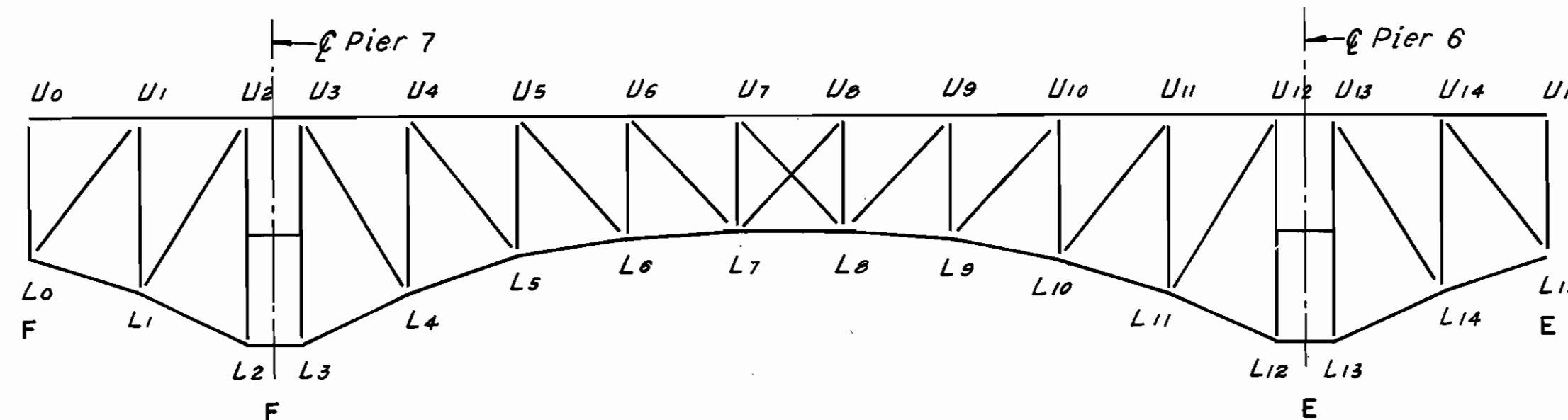
MAINTENANCE AND INSPECTION DECK
AND BOTTOM LATERAL PLAN

SPANS 6, 8 AND 12

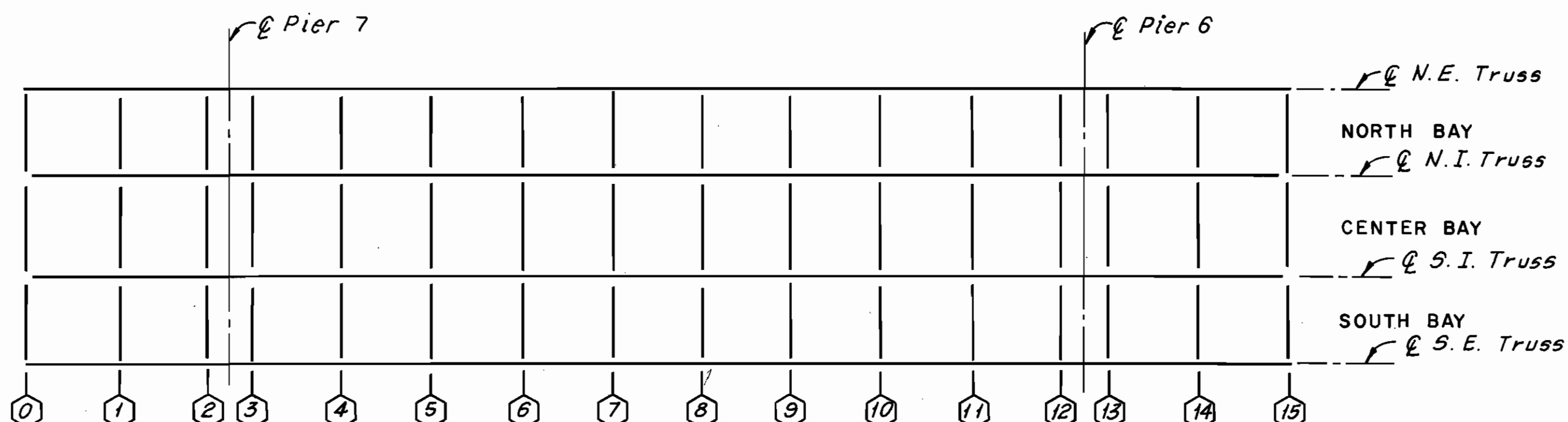
* 16 For span 6, 18 For span 8
and 13 For span 12



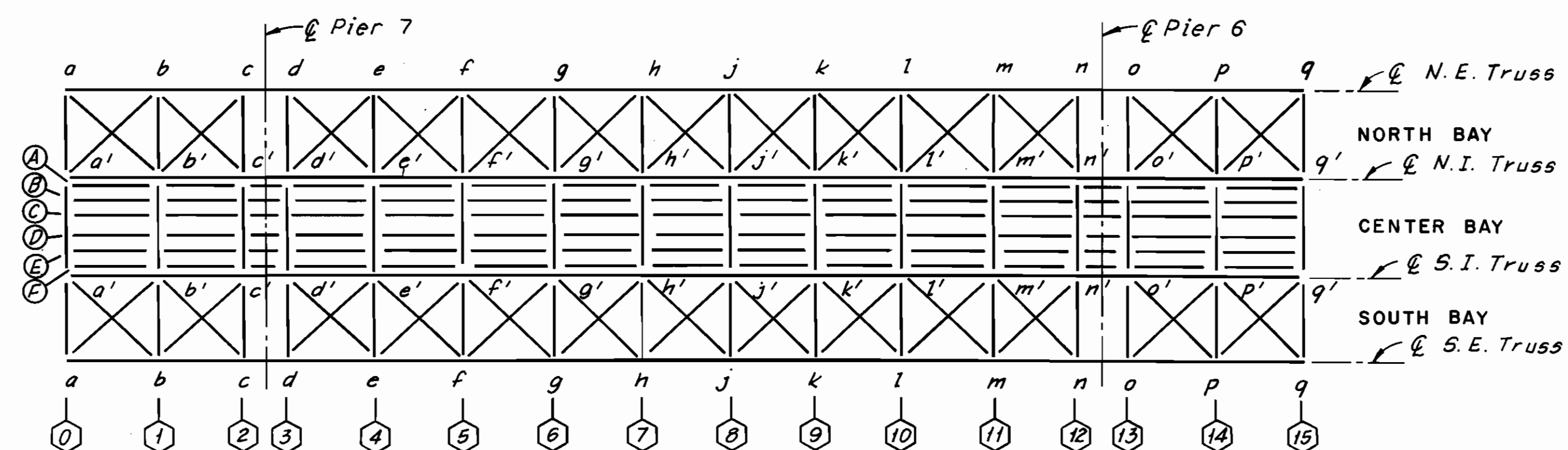
UPPER DECK PLAN



TYPICAL TRUSS ELEVATION



LOWER DECK PLAN



MAINTENANCE AND INSPECTION DECK
AND BOTTOM LATERAL PLAN

SPAN 7

FHWA REGION	STATE	PROJECT
5	OHIO	

81
185

CUYAHOGA COUNTY
CUY-10-16.23

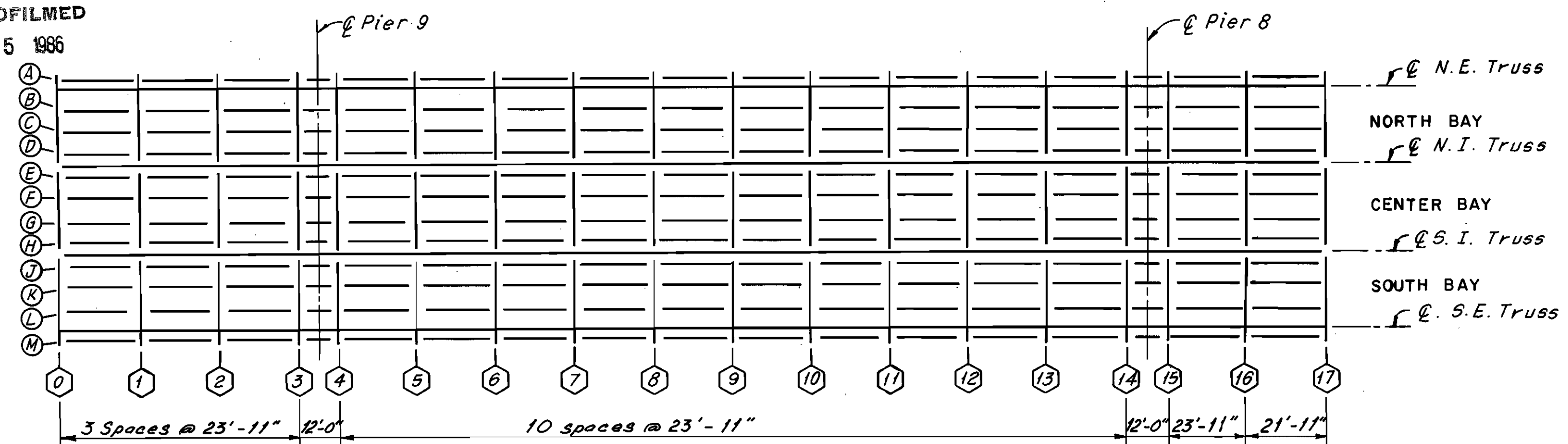
LEGEND

- ⬡ DENOTES FLOORBEAMS
- DENOTES STRINGERS
- E DENOTES EXPANSION JOINT
- F DENOTES FIXED JOINT

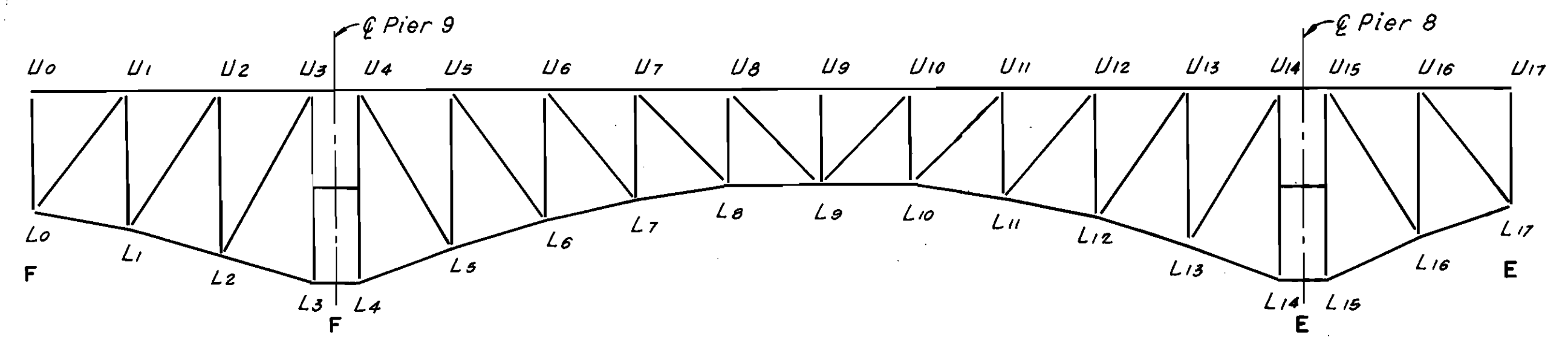
Notes:
For Portal and Sway Bracing Identification, see Sheet 5/72.
The following abbreviations are used:
N.E. = North Exterior
N.I. = North Interior
S.I. = South Interior
S.E. = South Exterior
For location of spans, see Sheets 1/72 and 2/72.

HNTB BRIDGE NO. 3		HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS CLEVELAND		HNTB	
MEMBER IDENTIFICATION PLANS					
SPANS 6, 7, 8 AND 12					
REHABILITATION OF THE					
LORAIN - CARNEGIE BRIDGE					
(S.R. 10 OVER THE CUYAHOGA RIVER)					
BR. NO. CUY.-10-1618			STA. 22+19.19		
			STA. 55+04.56		
CUYAHOGA COUNTY				OHIO	
DRAWN BY AJT	TRACED BY AJT	CHECKED D.L.R.	REVIEWED	REVISION	
DATE 2-17-73	DATE 2-17-73	DATE 2-20-75	DATE		SHEET 7/72

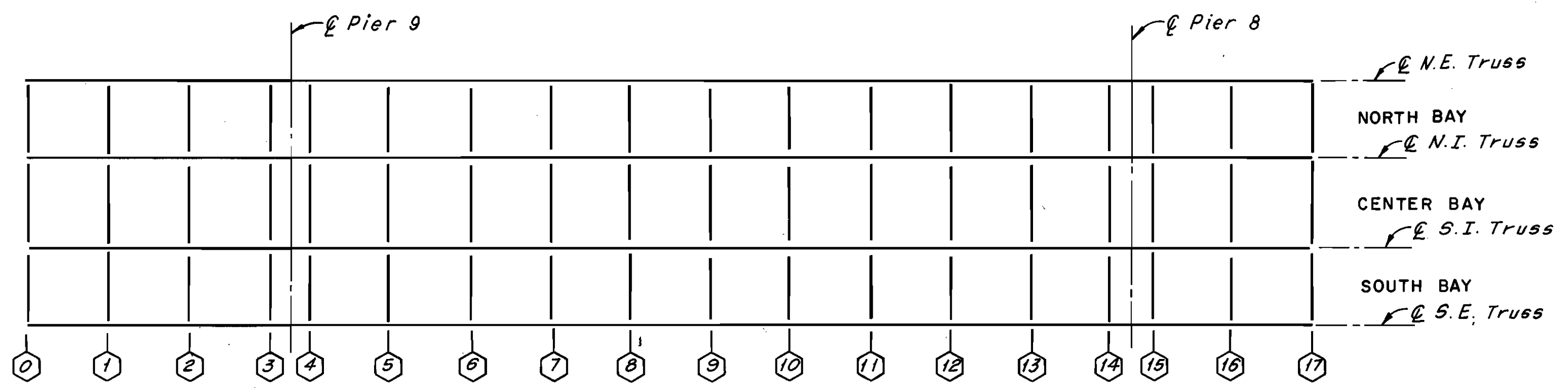
MICROFILMED
DEC 5 1986



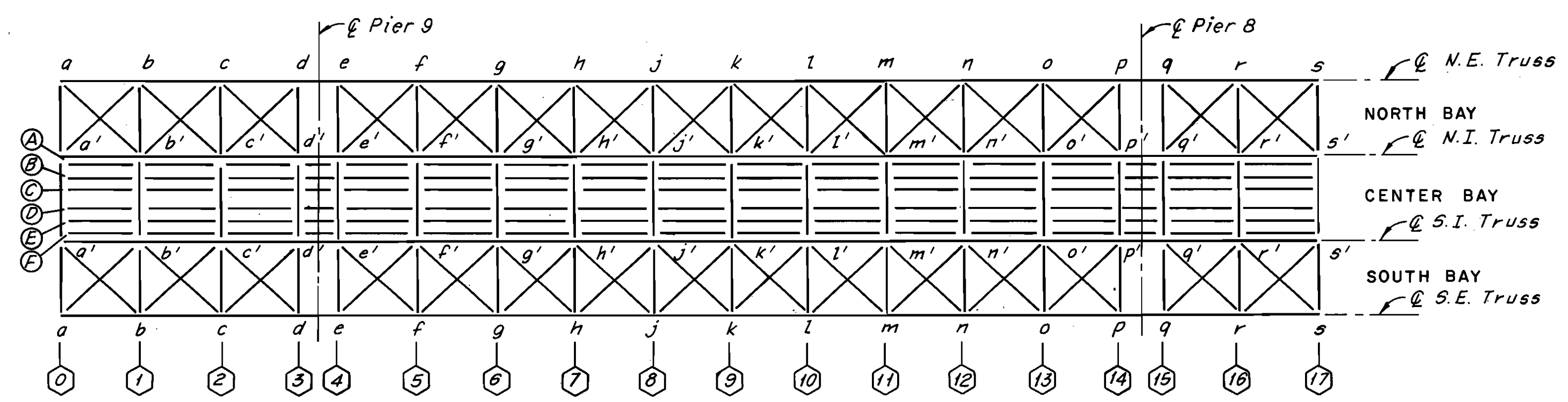
UPPER DECK PLAN



TYPICAL TRUSS ELEVATION

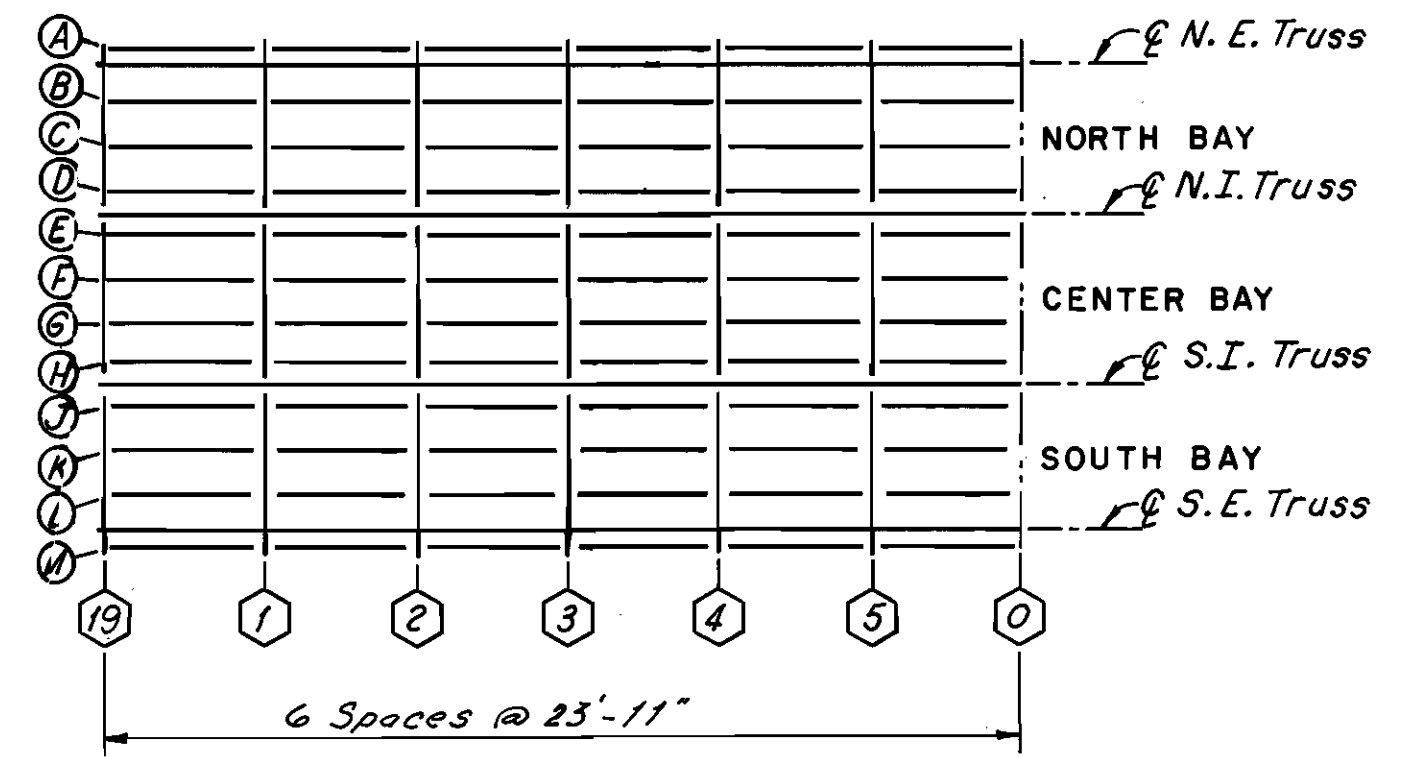


LOWER DECK PLAN

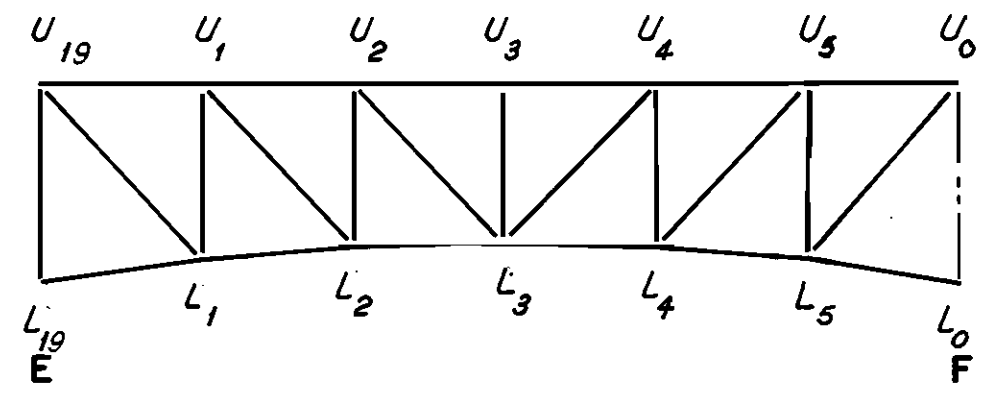


MAINTENANCE AND INSPECTION DECK
AND BOTTOM LATERAL PLAN

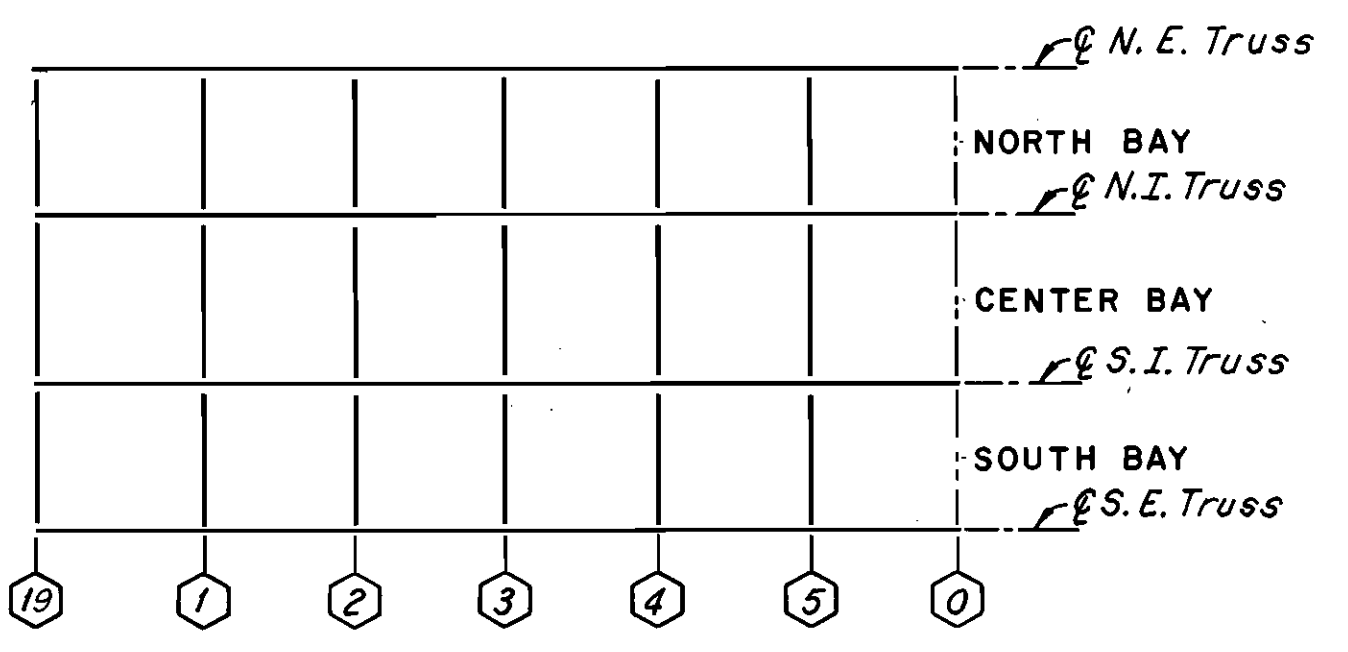
SPAN 9



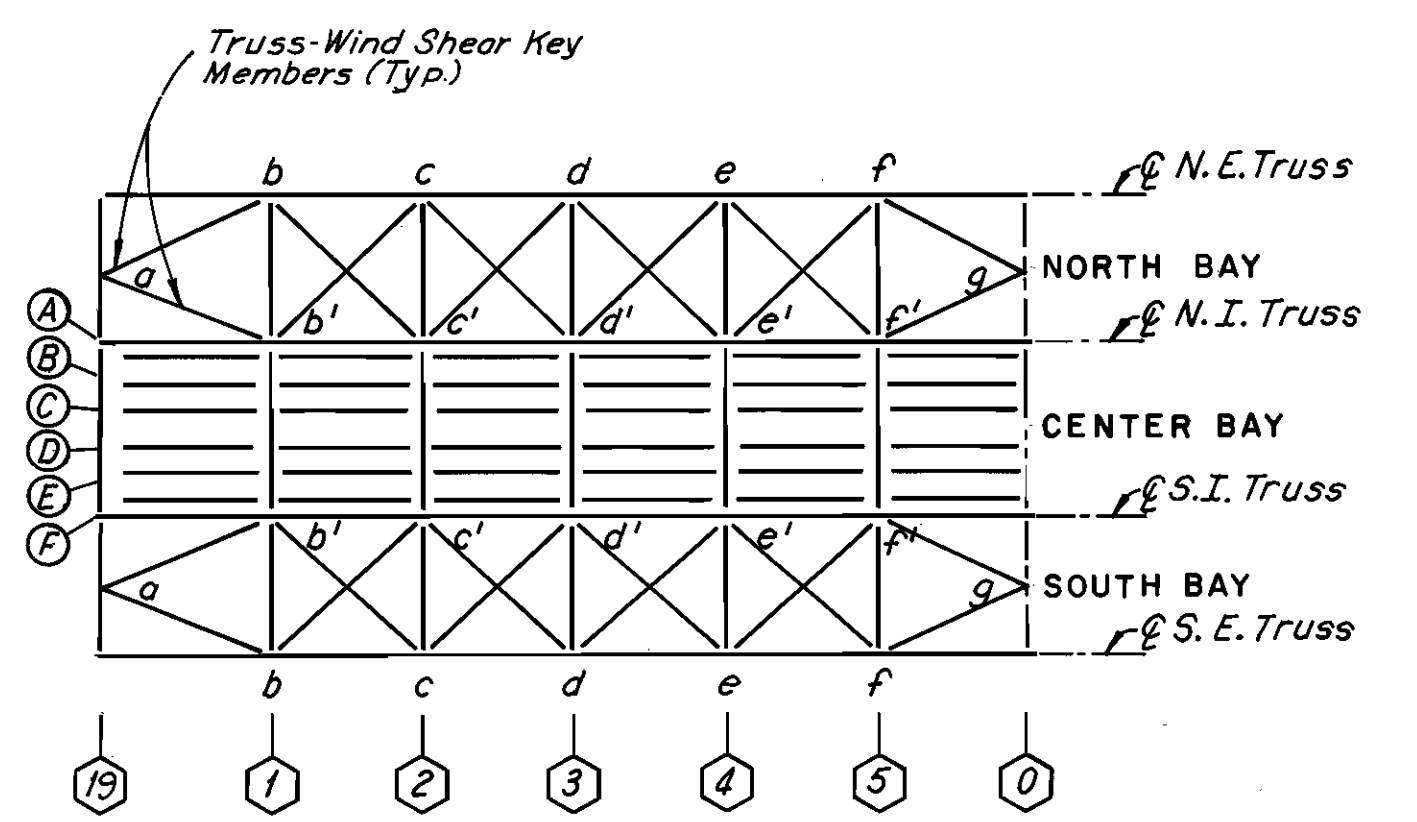
UPPER DECK PLAN



TYPICAL TRUSS ELEVATION



LOWER DECK PLAN



MAINTENANCE AND INSPECTION DECK
AND BOTTOM LATERAL PLAN

SPAN 10

FHWA REGION	STATE	PROJECT
5	OHIO	

82
185

CUYAHOGA COUNTY
CUY-10-16.23

LEGEND

- ⬡ DENOTES FLOORBEAMS
- DENOTES STRINGERS
- E DENOTES EXPANSION JOINT
- F DENOTES FIXED JOINT

Notes:
For Portal and Sway Bracing Identification, see Sheet 5/72.
The following abbreviations are used:
N.E. = North Exterior
N.I. = North Interior
S.I. = South Interior
S.E. = South Exterior
For location of spans, see Sheet 1/72.

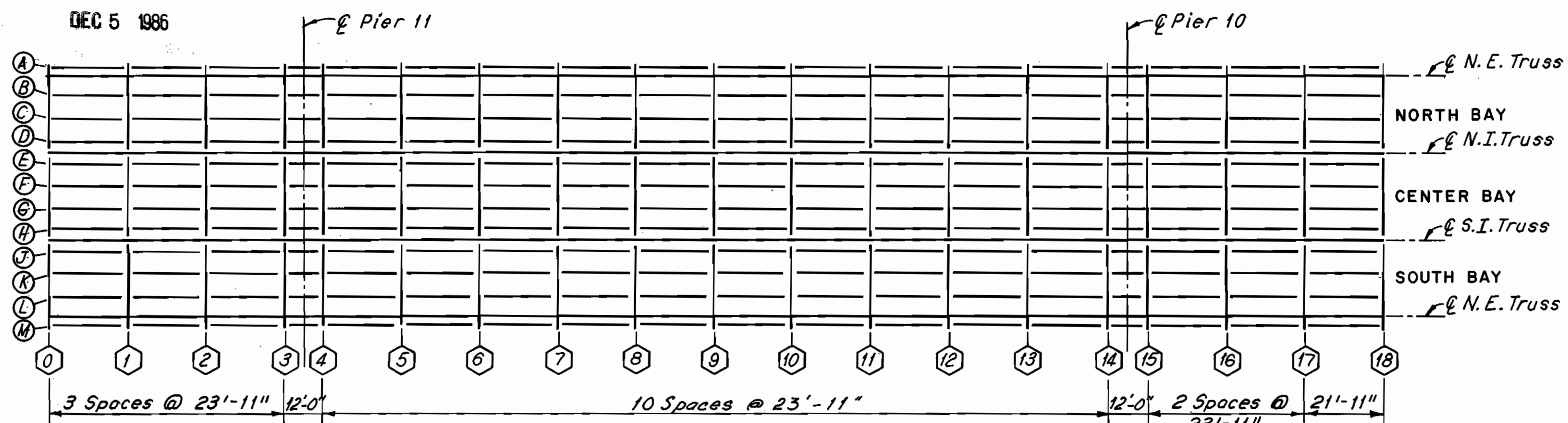
HNTB BRIDGE NO. 3
HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS CLEVELAND

HNTB

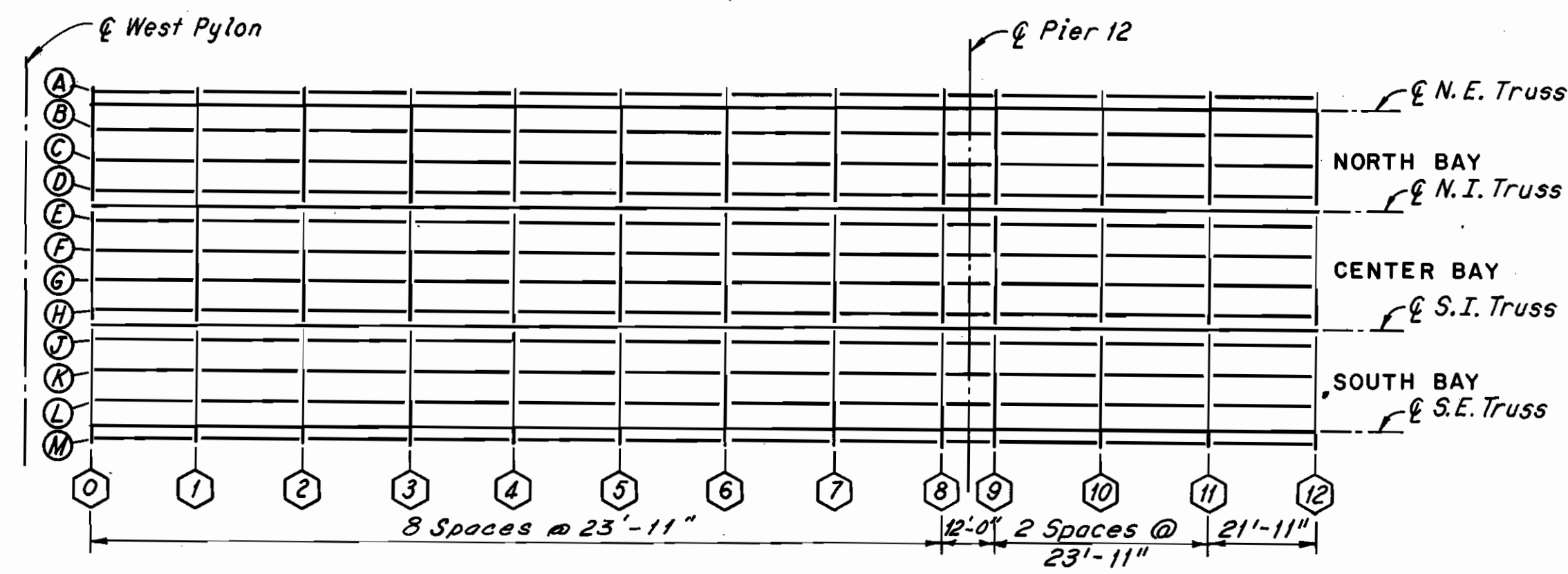
MEMBER IDENTIFICATION PLANS
SPANS 9 AND 10
REHABILITATION OF THE
LORAIN-CARNEGIE BRIDGE
(S.R. 10 OVER THE CUYAHOGA RIVER)
BR. NO. CUY.-10-1618 STA. 22+19.19
CUYAHOGA COUNTY OHIO
STA. 55+04.56

DRAWN BY	TRACED BY	CHECKED	REVIEWED	REVISED
DATE 2/17/75	DATE 2/18/75	DATE 2/20/75	DATE	

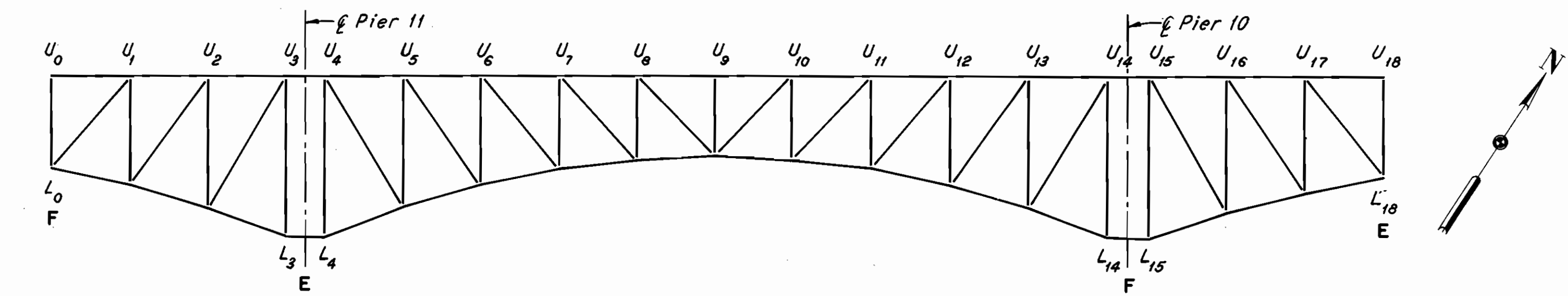
SHEET 3 / 72



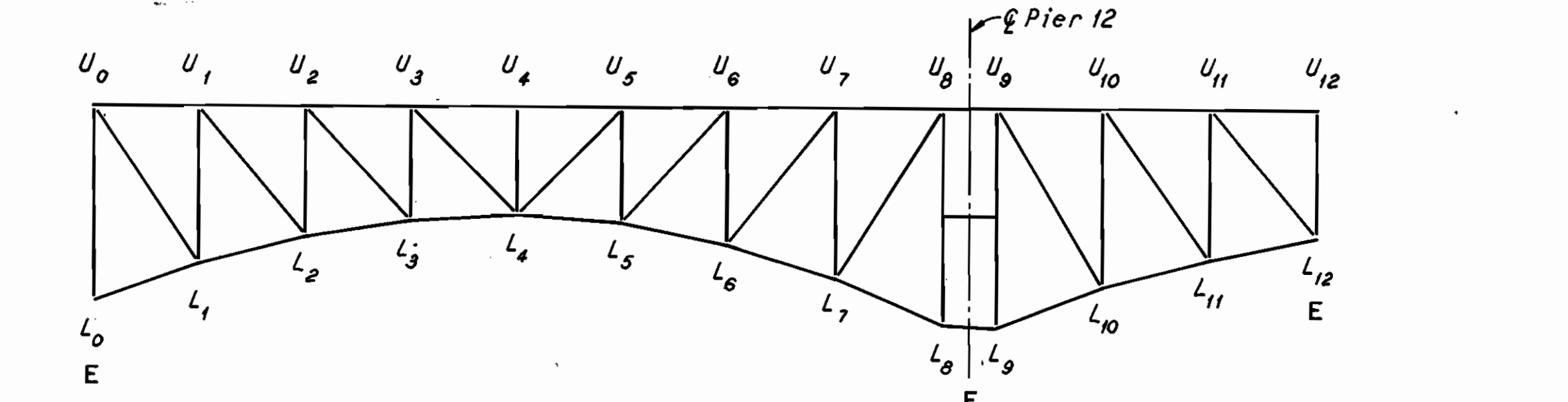
UPPER DECK PLAN



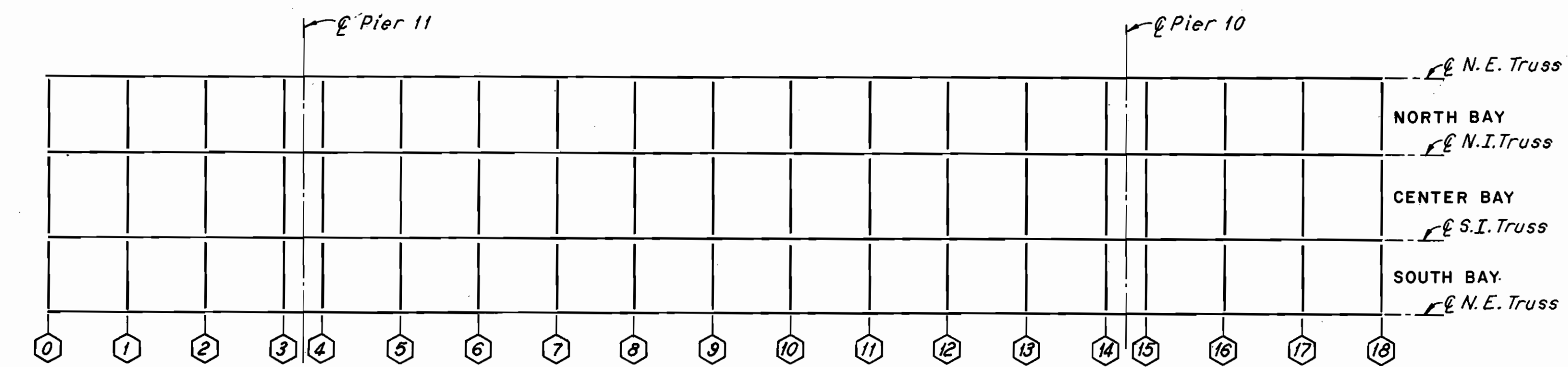
UPPER DECK PLAN



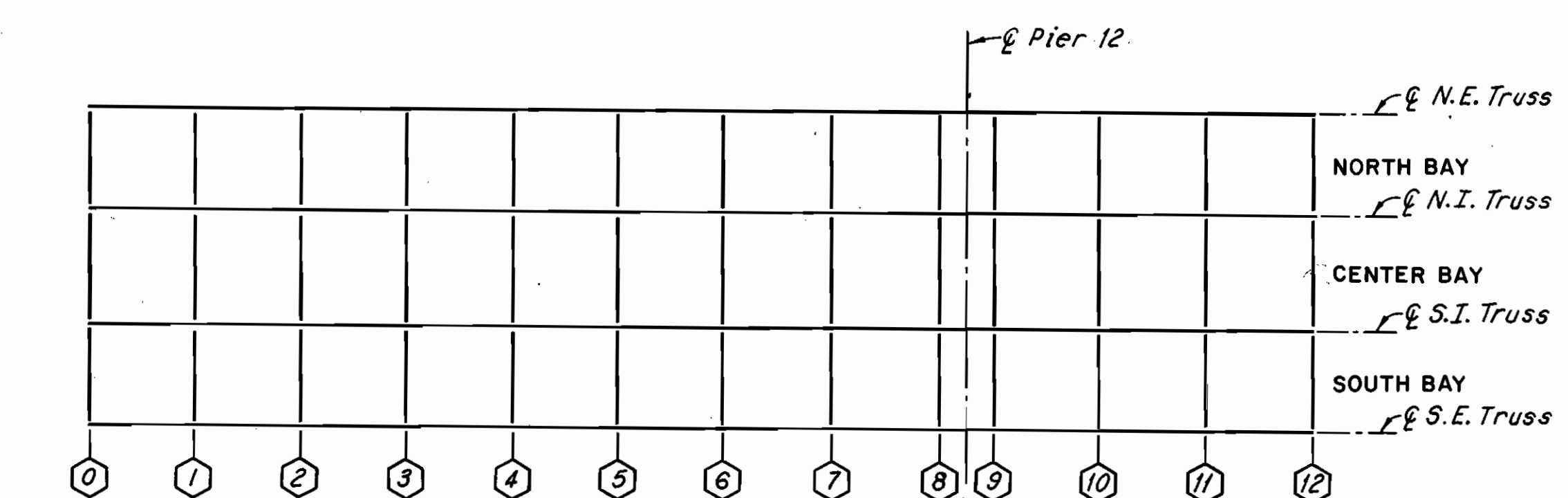
TYPICAL TRUSS ELEVATION



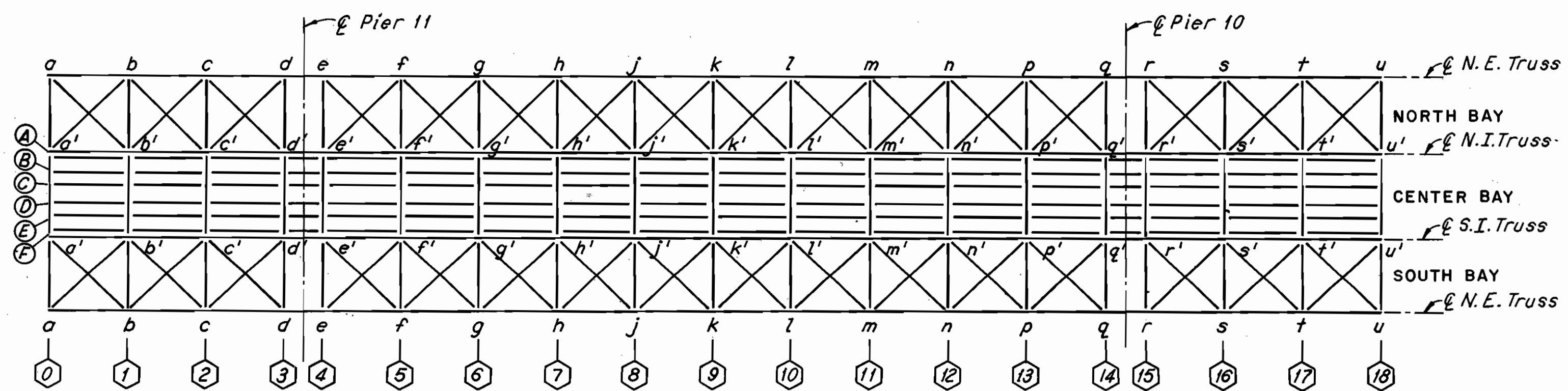
TYPICAL TRUSS ELEVATION



LOWER DECK PLAN

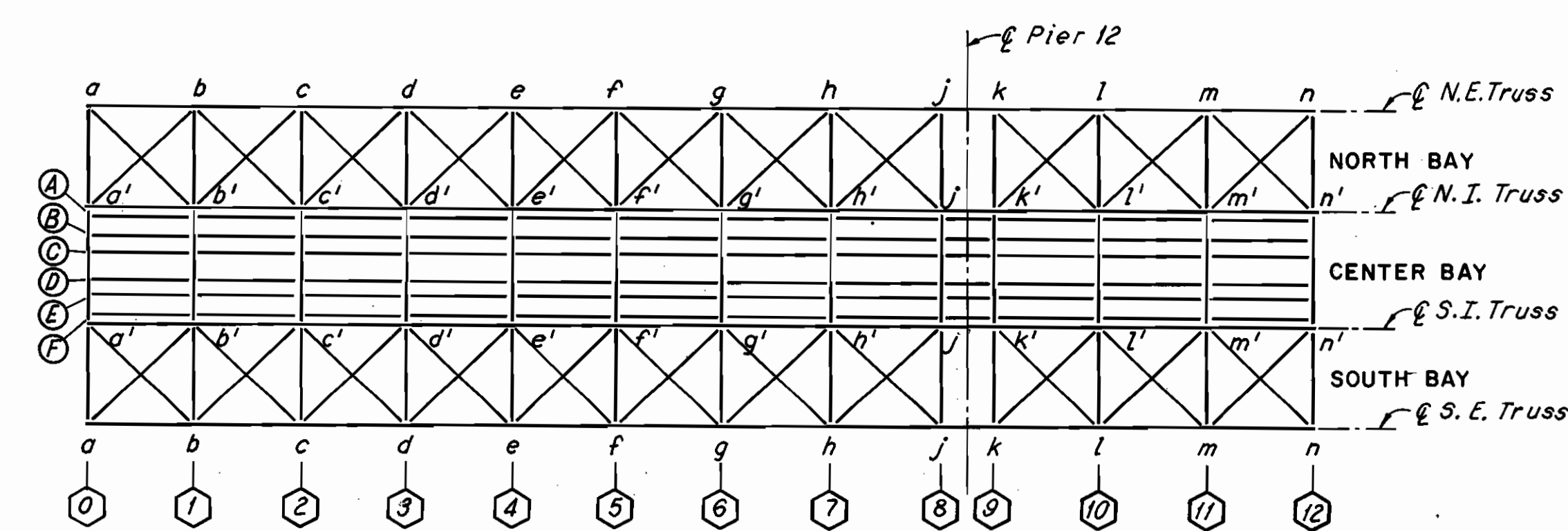


LOWER DECK PLAN



MAINTENANCE AND INSPECTION DECK AND BOTTOM LATERAL PLAN

SPAN 11



MAINTENANCE AND INSPECTION DECK AND BOTTOM LATERAL PLAN

SPAN 13

FHWA REGION	STATE	PROJECT
5	OHIO	

83
185

CUYAHOGA COUNTY
CUY-10-16.23

LEGEND

- DENOTES FLOORBEAMS
- DENOTES STRINGERS
- E DENOTES EXPANSION JOINT
- F DENOTES FIXED JOINT

Notes:

For Portal and Sway Bracing Identification, see Sheet 5/72.
 The following abbreviations are used:
 N. E. = North Exterior
 N. I. = North Interior
 S. I. = South Interior
 S. E. = South Exterior
 For location of spans, see Sheet 1/72.

HNTB BRIDGE NO. 3
 HOWARD, NEEDLES, TAMMEN & BERGENDOFF
 CONSULTING ENGINEERS
 CLEVELAND

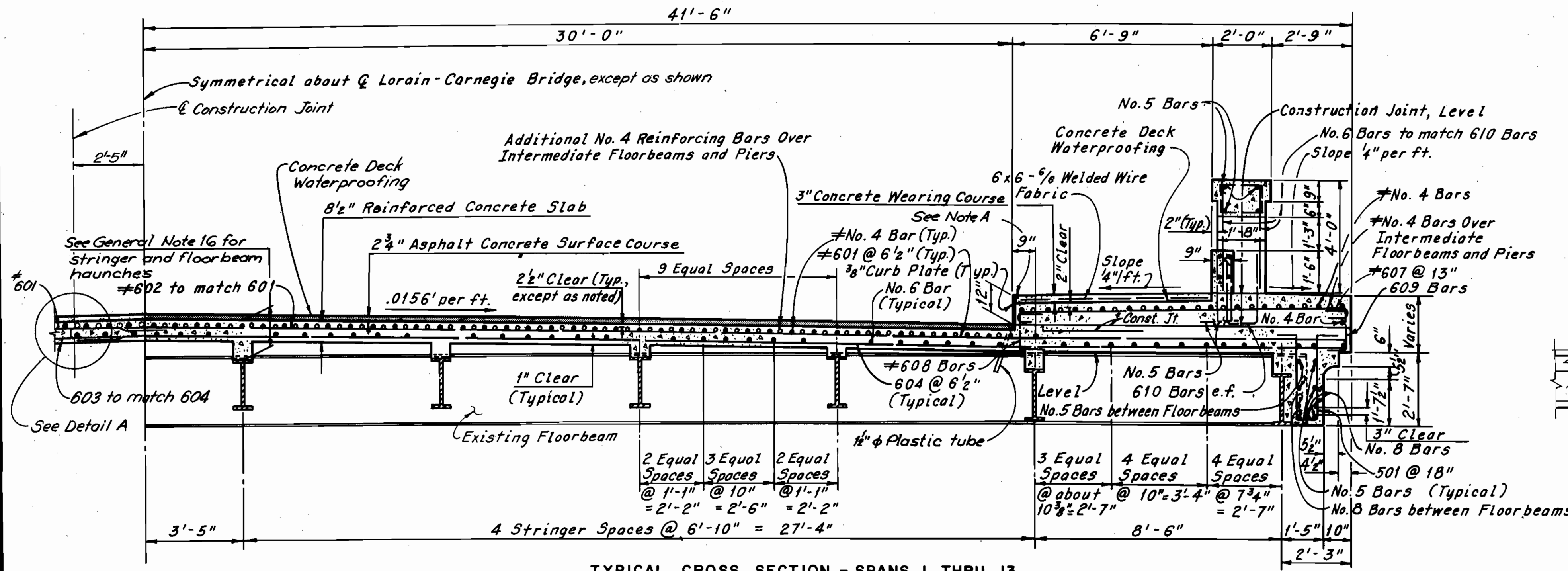
HNTB

MEMBER IDENTIFICATION PLANS
SPANS 11 AND 13
 REHABILITATION OF THE
 LORAIN-CARNEGIE BRIDGE
 (S.R. 10 OVER THE CUYAHOGA RIVER)
 BR. NO. CUY.-10-1618 STA. 22+19.19
 CUYAHOGA COUNTY STA. 55+04.56 OHIO

DRAWN/RCK	TRACED/RCK	CHECKED D.L.R.	REVIEWED	REVISED
DATE 2/17/75	DATE 2/19/75	DATE 3/20/75	DATE	DATE

SHEET 9 / 72

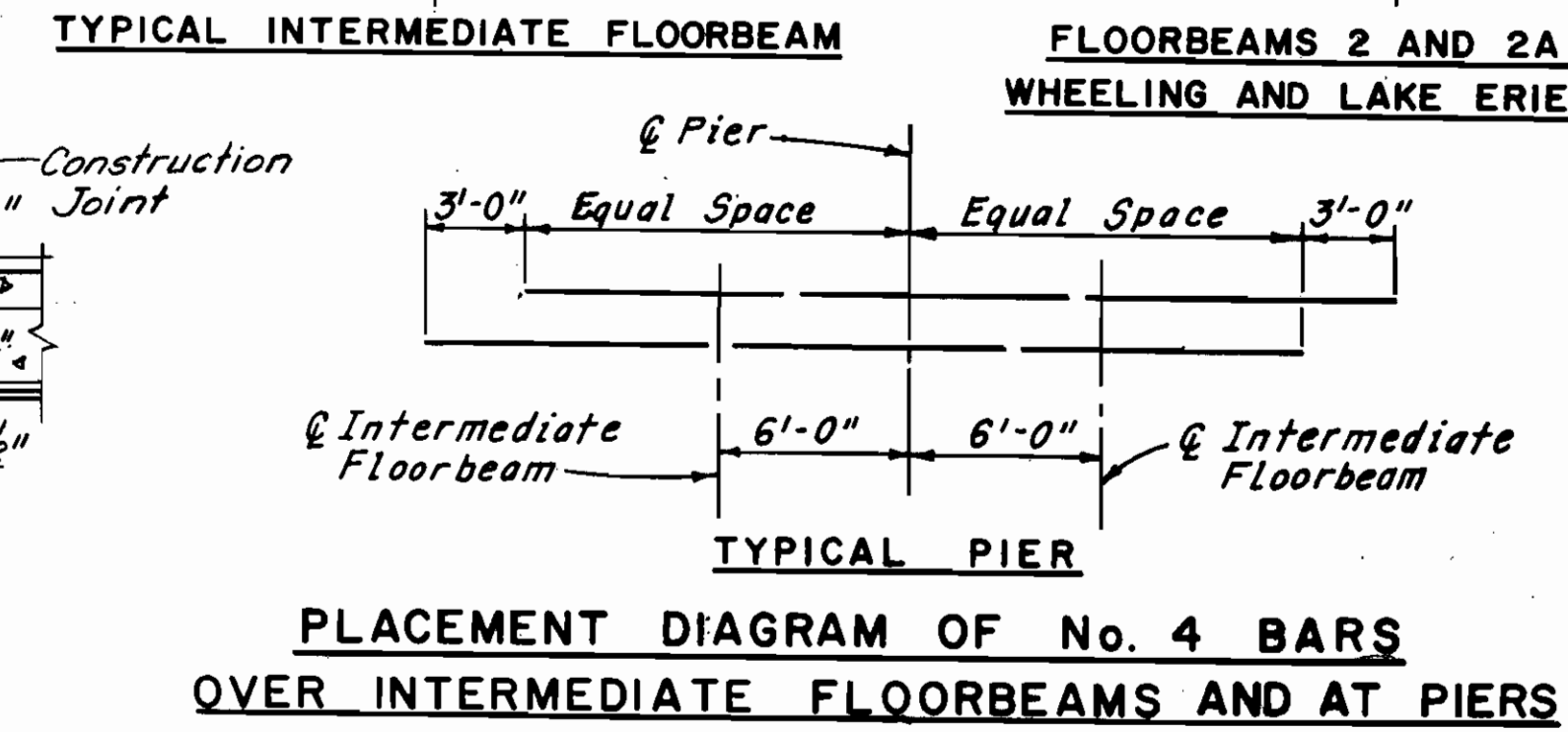
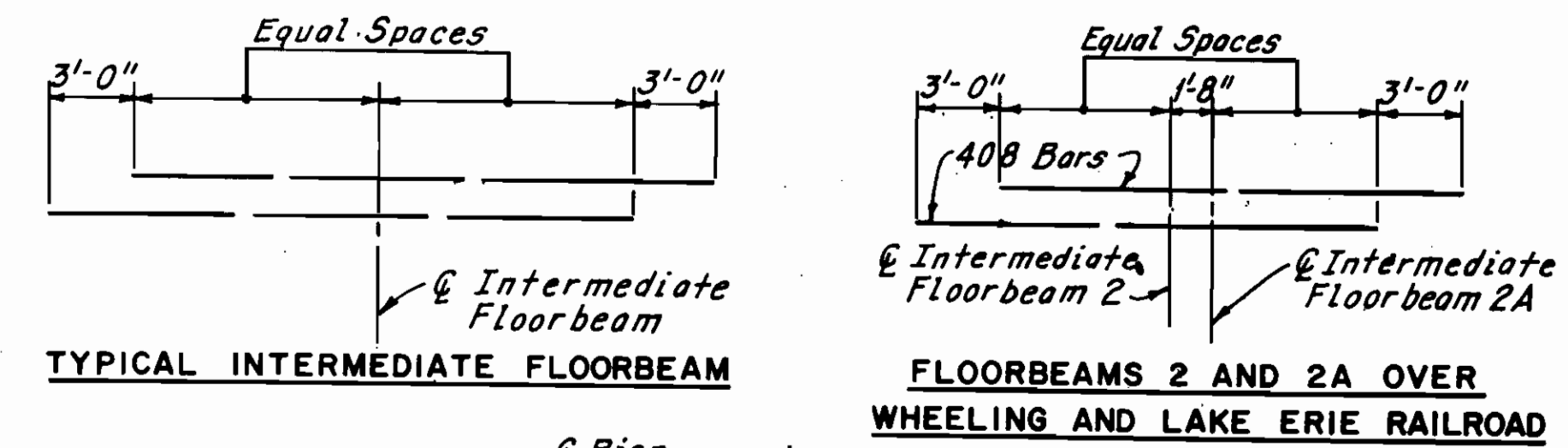
* The horizontal construction joint in the south sidewalk between Pier 11 and the East Abutment must be lowered as shown to accommodate M.E.L.P. ducts. See M.E.L.P. Relocation Plans for details.
Reinforcement above the construction shall be field cut to allow installation of 5 M.E.L.P. Splicing Chambers. See M.E.L.P. Relocation Plans, for locations of splicing chambers.



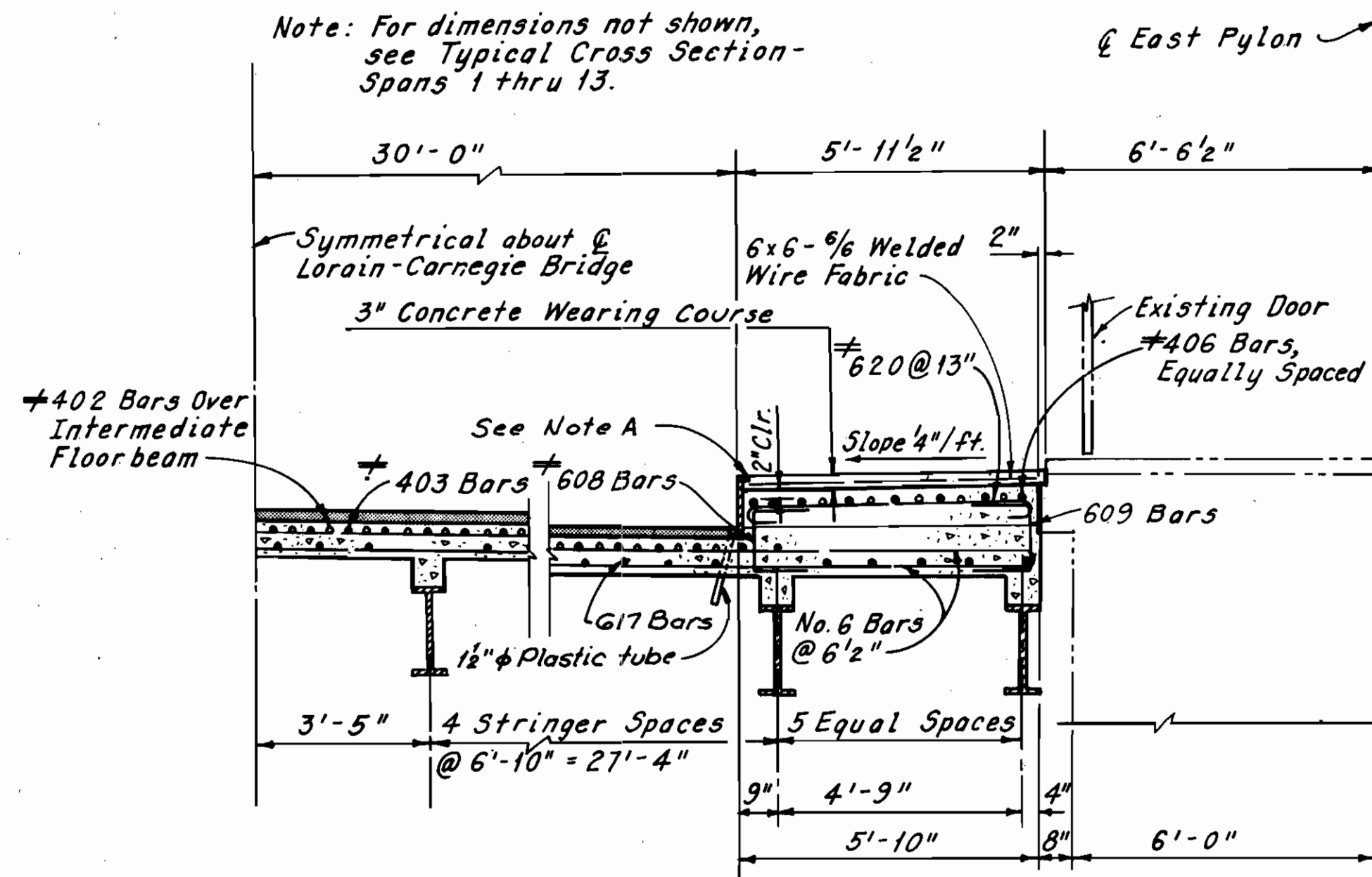
TYPICAL CROSS SECTION - SPANS 1 THRU 13
(Wheeling and Lake Erie R.R. Span Same, except as shown in Part Section B-B)

Note A:
Joint Sealer. Material shall be hot applied bridge deck waterproofing material, which also meets the requirement of 705.01. To be included with Item 511, Class C Concrete, Superstructure, for payment.

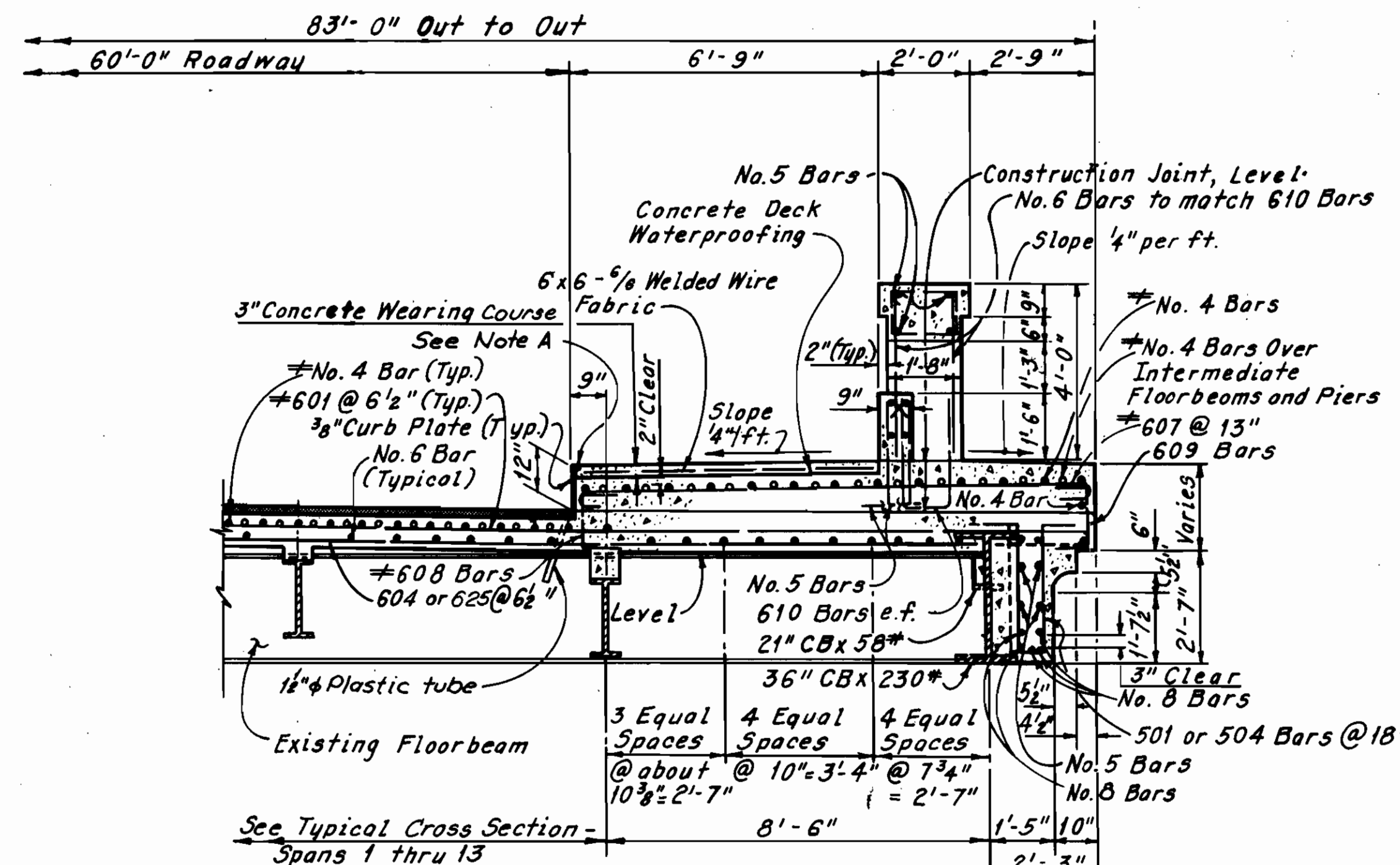
Note:
2" ϕ Lighting Conduit not shown in sections.



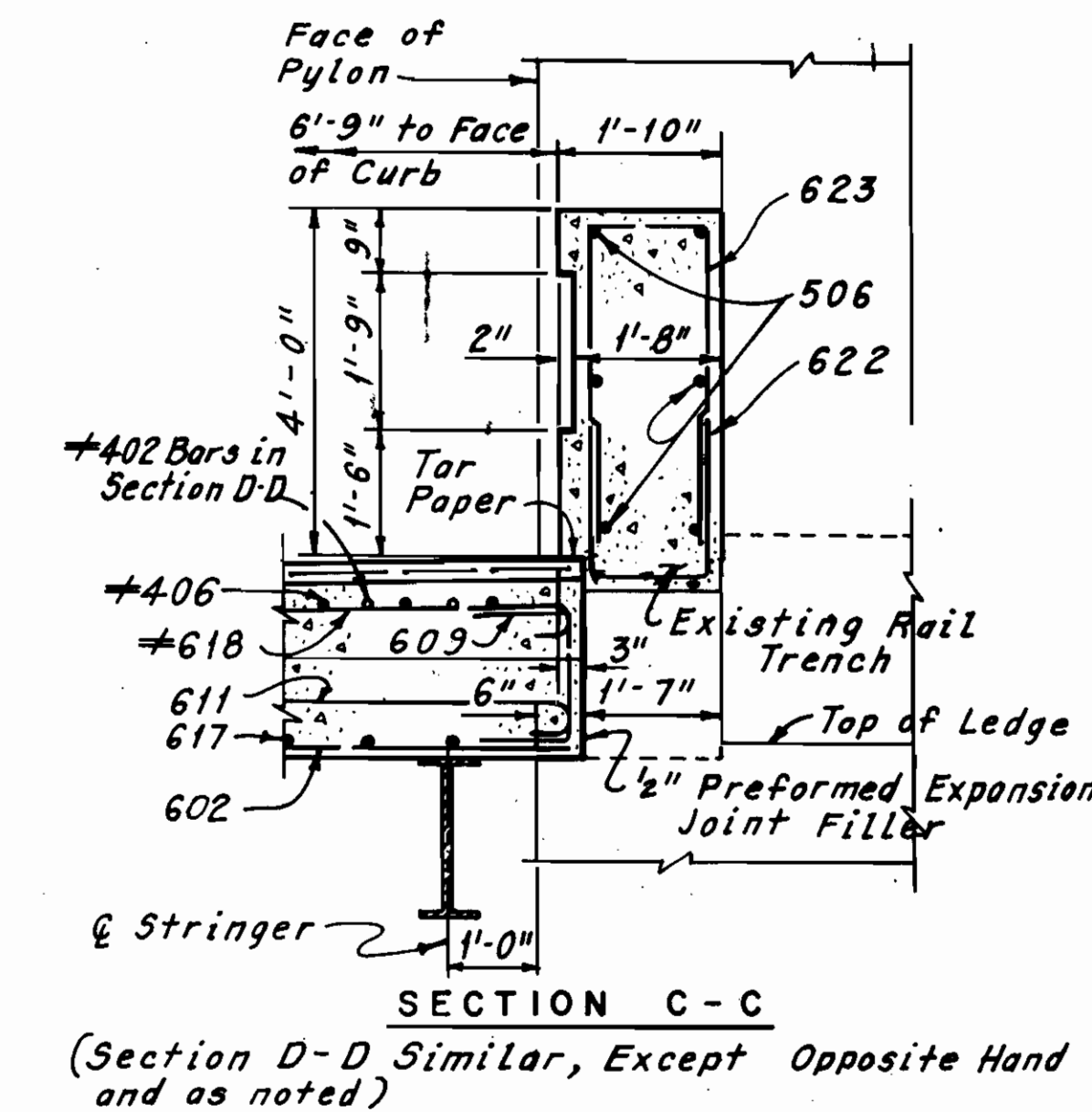
Note: For dimensions not shown, see Typical Cross Section - Spans 1 thru 13.



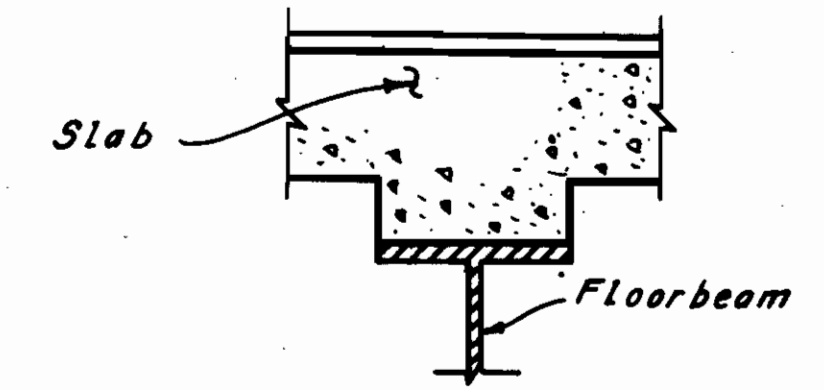
PART SECTION A-A



PART SECTION B-B



SECTION C-C
(Section D-D Similar, Except Opposite Hand and as noted)



TYPICAL FLOORBEAM HAUNCH DETAIL
(Shear Studs not shown)

Notes:
For location of Sections A-A, B-B and C-C, see Sheet 48A/72.
For location of No. 4 bars over Piers and Intermediate Floorbeams, see Sheets 48A/72 thru 52A/72.
For additional Notes, see Sheet 48A/72.
Tar paper shall be included in the unit price bid for Item 511, Class C Concrete, Superstructure, for payment.
For curb plate details, see Sheet CD 1.
For subdrainage for surface course detail, see Sheet CD 1.
For asphalt concrete surface course detail, see Sheet CD 1.

Denotes epoxy coated reinforcing steel.

This sheet added 5-15-81 and supersedes 53/72.

Supersedes sheet 128, 7-10-81

H.N.T.B. BRIDGE NO. 3
HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS CLEVELAND

HNTB

DECK SECTIONS AND REINFORCEMENT PLACEMENT DIAGRAMS
REHABILITATION OF THE LORAIN-CARNEGIE BRIDGE
(S.R. 10 OVER THE CUYAHOGA RIVER)
BR. NO. CUY.-10-1618 STA. 22+19.19 TO STA. 55+04.56
OHIO

DRAWN C.P.	TRACED C.P.	CHECKED C.H.B.	REVIEWED	REVISED
DATE 2/10/78	DATE 2/13/78	DATE 4/6/78	DATE	DATE

SHEET 53A/72