

AKRON INNERBELT
SUM - 59-0.00

CURVE DATA

BASELINE RAMP "EN"
P.I. STA. 129+10.45
SPIRALS (IN & OUT)

$L_s = 450.00'$
 $\theta_s = 18^\circ 00' 00''$
 $X = 445.58'$
 $Y = 46.79'$
 $P = 11.74'$
 $K = 224.26'$
 $LT = 301.57'$
 $ST = 151.42'$

CIRCULAR SECTION

$\Delta = 87^\circ 54' 18''$
 $\Delta_c = 51^\circ 54' 18''$
 $D_c = 8^\circ 00' 00''$
 $R = 716.197'$
 $T = 348.58'$
 $L_c = 648.82'$

PROPOSED STRUCTURE

TYPE: CONTINUOUS WELDED R. GIRDERS AND ROLLED BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURES.

SKEN: VARIES (SEE PLAN)

SPANS: 9/16 BEARINGS ALONG
 UNIT N°1 43'-0" 61'-0" 85'-6" 68'-6"
 UNIT N°2 138'-9" 163'-0" 111'-5"
 UNIT N°3 193'-7" 245'-9" 156'-6"
 UNIT N°4 98'-9" 121'-6" 158'-4"
 ROADWAY: 40'-0" F to F CONCRETE
 PARAPETS-41'-10" O to O DECK

LOADING: HS-20-44 (CASE II) AND ALTERNATE MILITARY LOADING

WEARING: 1 1/2" LATEX MODIFIED CONC. SURFACE

APPROACH: SLABS 30'-0" (A-1), 25'-0" (A-2)

ALIGNMENT: TANGENT, CURVE LEFT

SUPERELEVATION: TRANS-.0591/1 MAX.

SLOPE PROTECTION: CONCRETE.

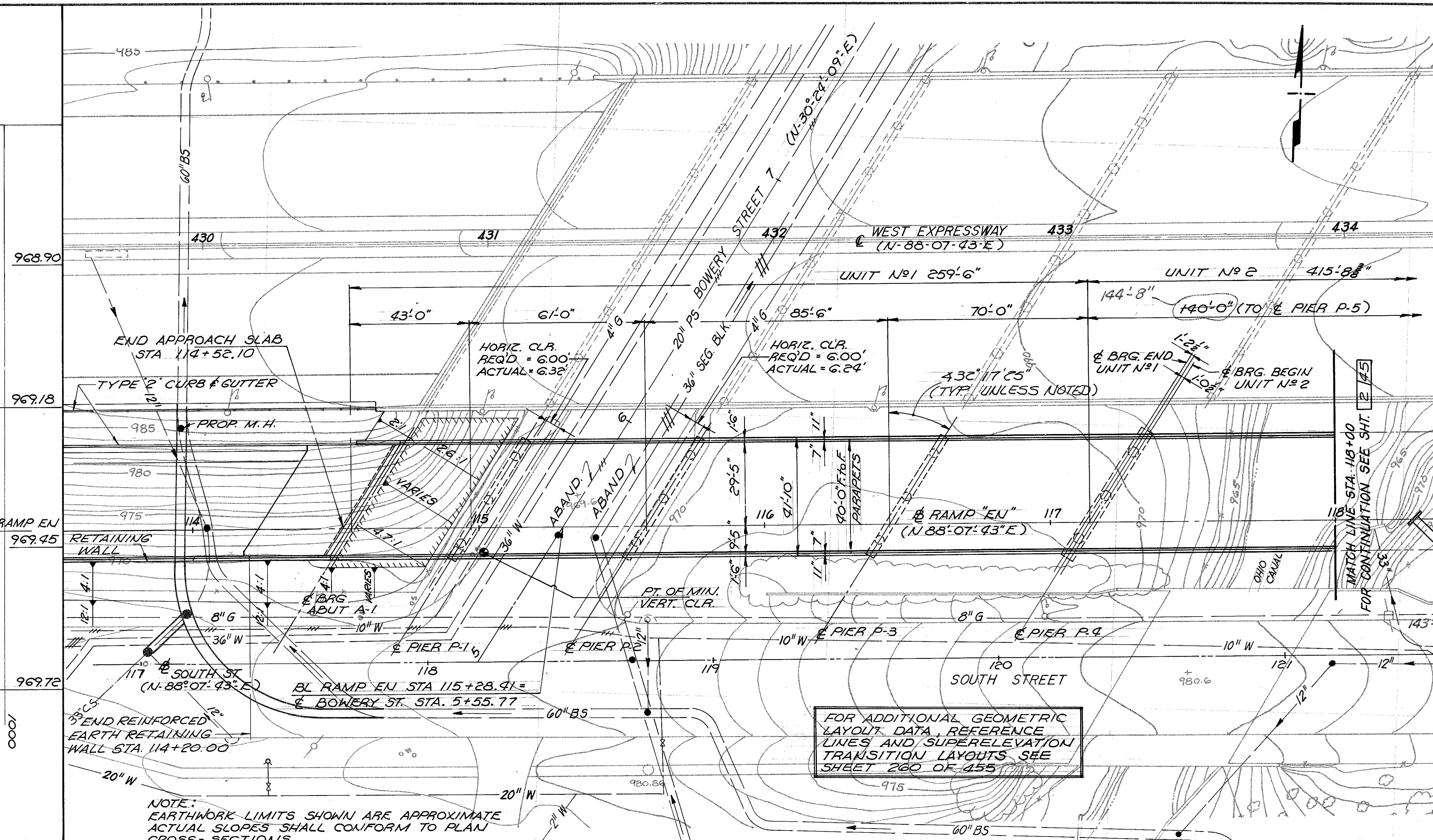
TRAFFIC:
 ADT = 15,200 (2000)
 ADTT = 760 (2000)

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 CLEVELAND OHIO AKRON OHIO

SITE PLAN

AKRON INNERBELT OVER BOWERY STREET,
 OHIO CANAL, WEST EXPRESSWAY AND
 RUSSELL AVENUE
 BR. NO. SUM-59-0000
 AKRON OHIO SUMMIT COUNTY
 STA. 114+52.10 TO STA. 129+52.60

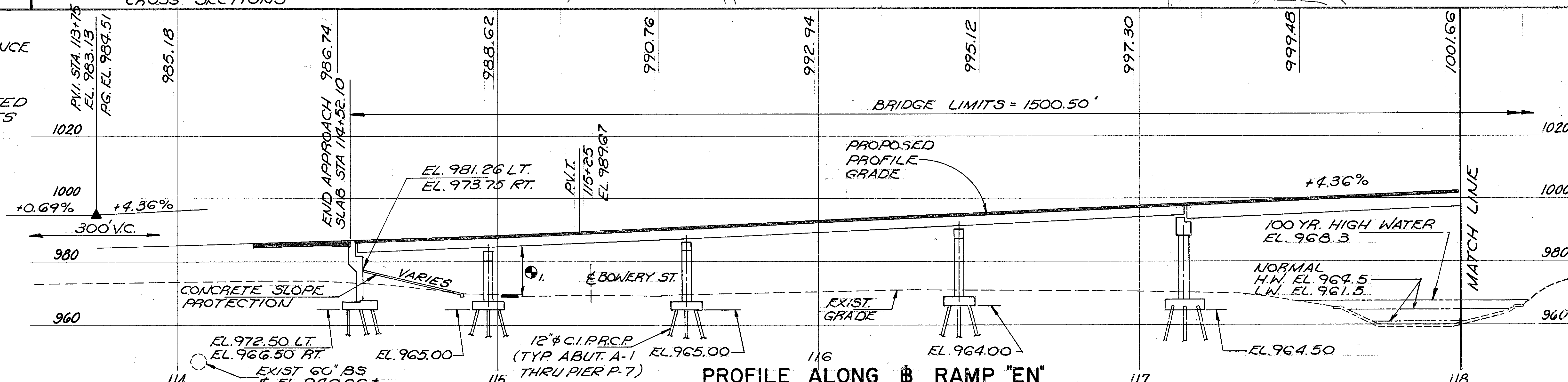
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISION
RLF	JWW		ALH	gdt	12-20-84	2-4-85



NOTE: EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS-SECTIONS.

PT. OF MIN. VERT. CLEARANCE
REQ'D. 15.33' ACTUAL 15.48'

FOR AVERAGE ESTIMATED
PAY LENGTHS AND TYPES
OF PILES SEE PILING
PLAN SHEET 10/45.

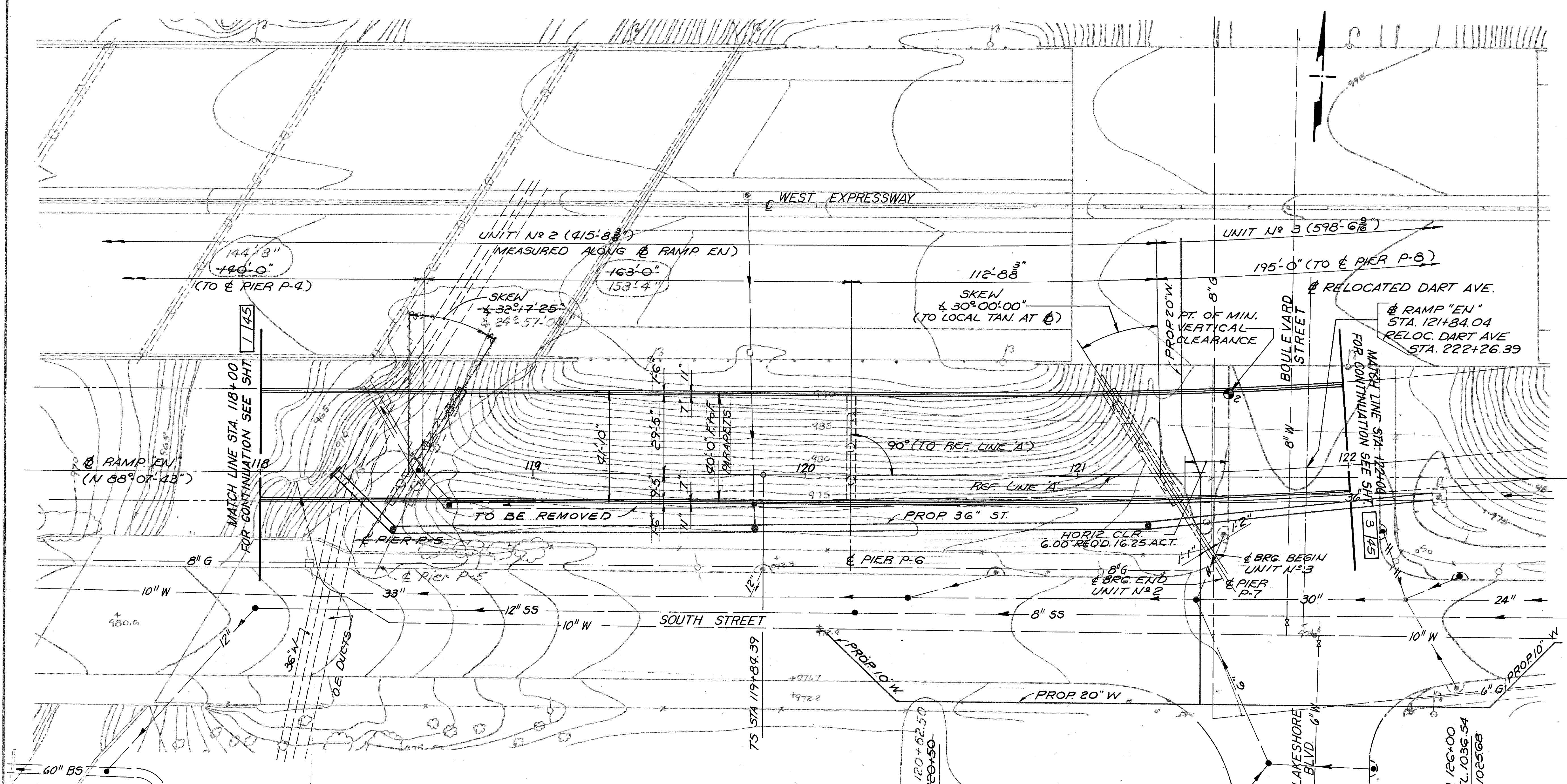


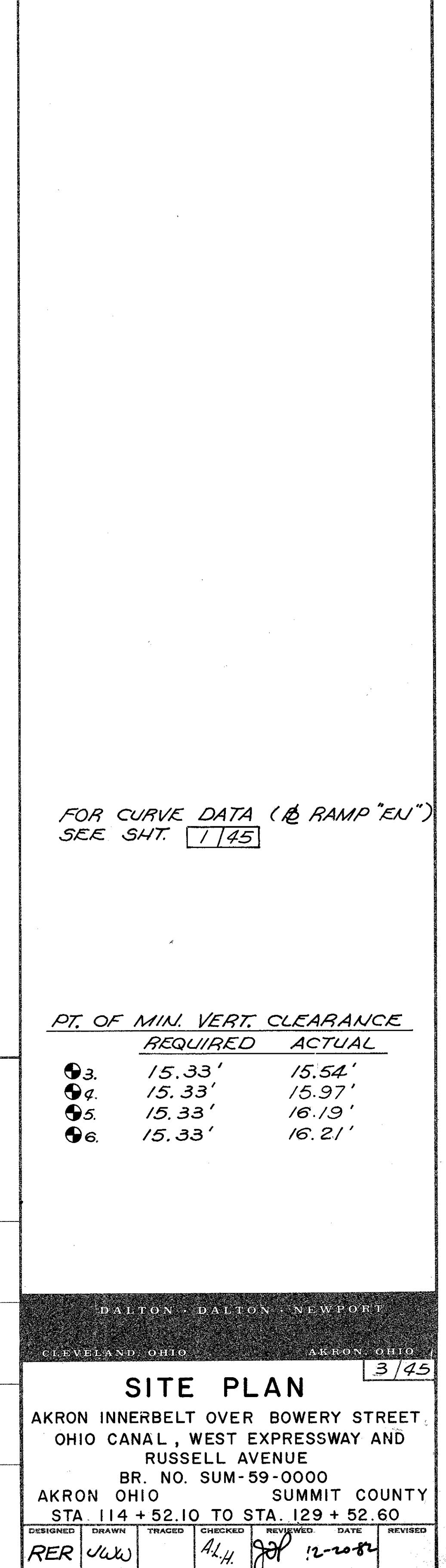
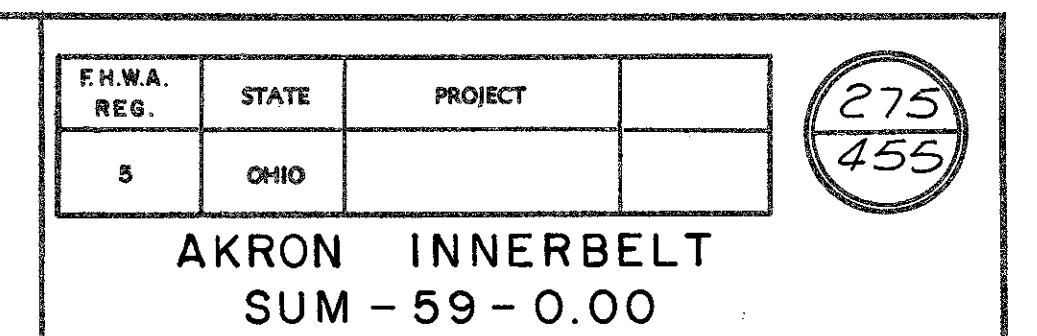
PROFILE ALONG RAMP "EN"

F.H.W.A. REG.	STATE	PROJECT
5	OHIO	

274
455

AKRON INNERBELT
SUM - 59 - 0.00

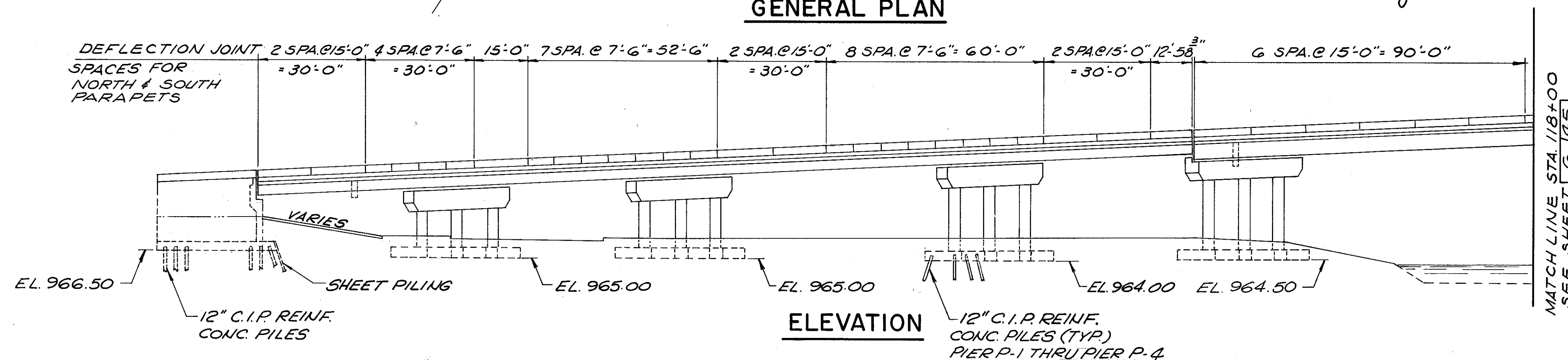
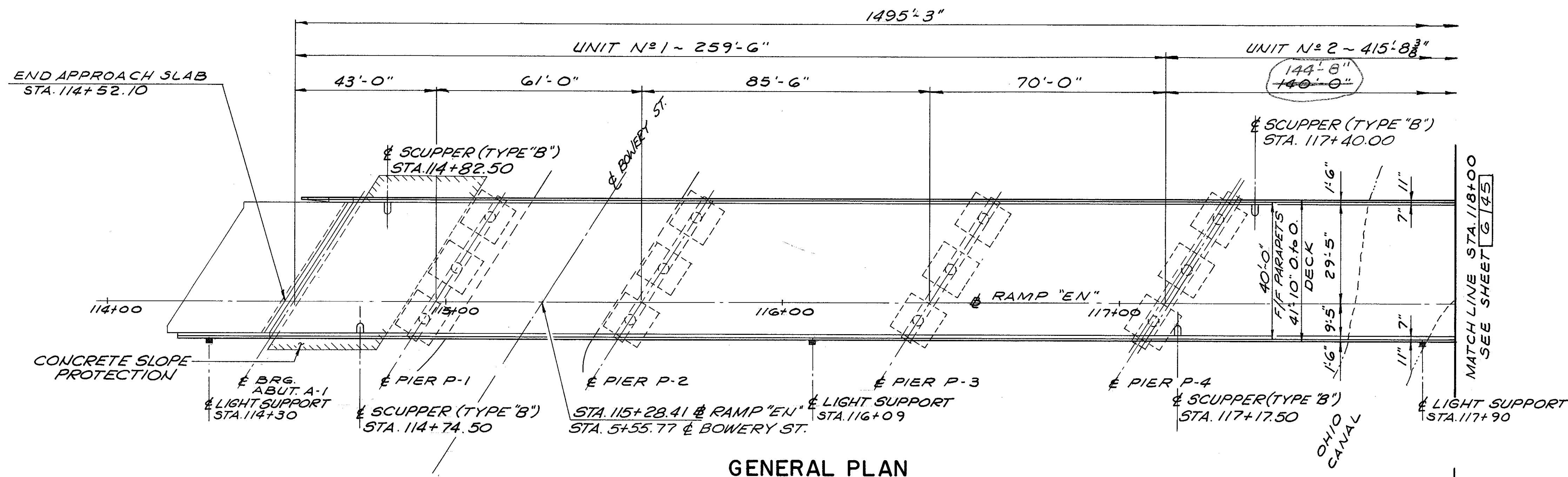




AKRON INNERBELT
SUM-59-0.00

NOTE

- FOR TYPICAL PANEL ELEVATIONS SEE SHEET 8/45.
- FOR SCUPPER DETAILS AND LIGHT SUPPORT DETAILS SEE SHEET 26/45.



ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIER	GEN'L.			ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIER	GEN'L.		
503	LUMP	LS	COFFERDAMS, CRIBS AND SHEETING				LUMP			512	5	SY	TYPE "B" WATERPROOFING		5				
503	2377	CY	UNCLASSIFIED EXCAVATION		423	1954				513	17660	EA.	WELDED STUD SHEAR CONNECTORS (*)	17660					
504	740	SF	STEEL SHEET PILING (LEFT IN PLACE)		740					513	2562610	LB.	STRUCTURAL STEEL (A-588) AISC CATEGORY III	2562610					
			(MIN. SEC. MOD. 7.0 IN ³ PER FT. OF FTG.)							513	88375	LB.	STRUCTURAL STEEL (A-36) CURB PLATES GALVANIZED (AISC CERT. NOT REQUIRED)	88375					
505	LUMP	LS	PILE DRIVING EQUIPMENT MOBILIZATION				LUMP			518	101	CY	POROUS BACKFILL		101				
506	LUMP	LS	STATIC LOAD TEST (12" C.I.P.)				LUMP			518	19.50	LF	6" NON-PERF. HELICAL C.S.P. INCLUD. SPEC. 707.01		19.50				
506	LUMP	LS	STATIC LOAD TEST (HP 12x53)				LUMP			518	41.75	LF	6" PERFORATED HELICAL C.S.P. 707.01		41.75				
506	1	EA.	SUBSEQUENT STATIC LOAD TEST (12" C.I.P.)			1				518	13	EA.	SCUPPERS, INCLUDING SUPPORTS	13					
507	900	LF	STEEL PILES, HP 10x42		900					523	9	hour	DYNAMIC LOAD TEST (12" C.I.P.)				9		
507	60	LF	PREBORED HOLES, AS PER PLAN		60					523	3	hour	DYNAMIC LOAD TEST (HP 12x53)				3		
507	12610	LF	12" DIA. C.I.P. REINF. CONCRETE PILES		1400	11210				601	662	SY	CONCRETE SLOPE PROTECTION		662				
507	1935	LF	STEEL PILES, HP 12x53 (*)			1935				625			SEE LIGHTING SUMMARY SHEET						
SPEC.	711	LF	60" DIA. DRILLED SHAFTS (SOIL) (***)			711				845	6350	SY	LATEX MODIFIED CONC. OVERLAY (1/4 THK.) (*)	6350					
509	470710	LB.	REINFORCING STEEL (GRADE 60)	207947	20935	241828				SPEC.	4006	SY	SEALING OF CONCRETE SURFACES (*)	2020	230	1756			
824	339150	LB.	EPOXY COATED REINF. STL. GRADE 60	336540	2610					516	93.70	LF	MODULAR EXPN. JT. DEVICE (TYPE "A") (**)	93.70					
			483							516	47.32	LF	MODULAR EXPN. JT. DEVICE (TYPE "B") (**)	47.32					
511	1924	CY	CLASS "S" CONCRETE, SUPERSTRUCTURE (*)	1924		483				516	96.09	LF	MODULAR EXPN. JT. DEVICE (TYPE "C") (***)	96.09					
511	613	CY	CLASS "C" CONCRETE, PIERS ABOVE FTGS.			613				516	35	EA.	SPHERICAL BEARINGS (***)		5	30			
511	175	CY	CLASS "C" CONCRETE, ABUTS. ABOVE FTGS.		175														
511	865	CY	CLASS "C" CONCRETE, FOOTINGS		168	697													

- (*) SEE PROPOSAL NOTE
- (**) AS PER PLAN
- (***) SEE SPECIAL PROVISIONS

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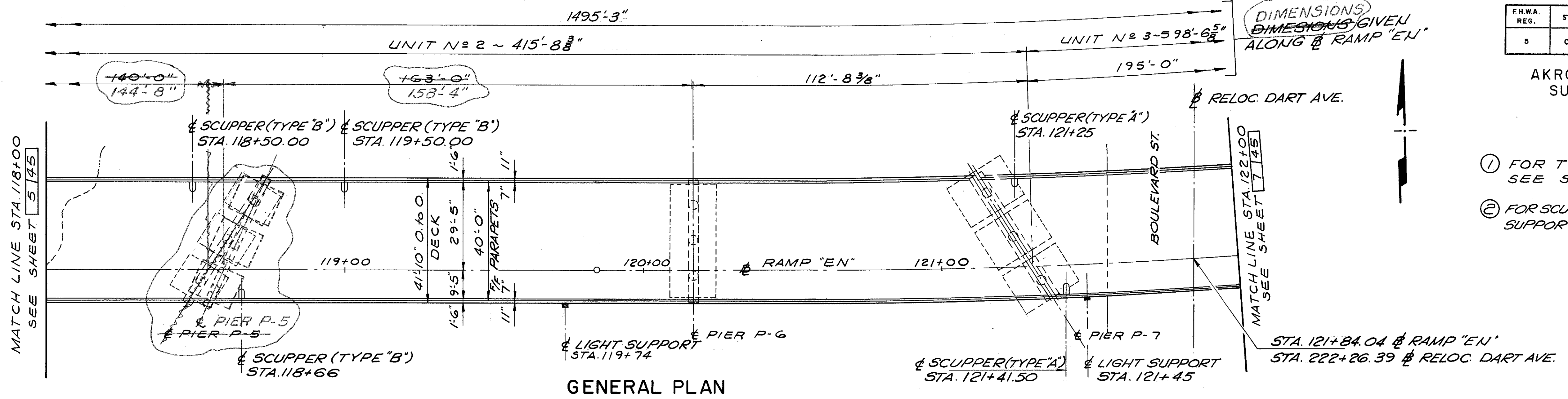
CLEVELAND, OHIO AKRON, OHIO

GENERAL PLAN & ELEVATION 5/45
AND ESTIMATED QUANTITIES

AKRON INNERBELT OVER BOWERY STREET,
OHIO CANAL, WEST EXPRESSWAY
AND RUSSELL AVENUE
BR. NO. SUM-59-0000

AKRON OHIO SUMMIT COUNTY
STA. 114+52.10 TO STA. 129+52.60

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RLF	F.F.		JWW		12-20-84	2-4-85

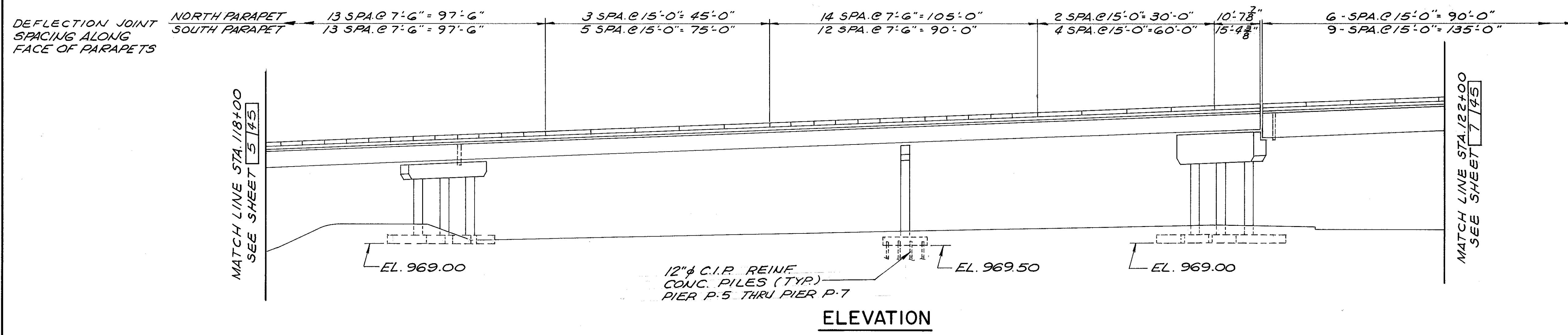


F.H.W.A. REG.	STATE	PROJECT	
5	OHIO		

AKRON INNERBELT
SUM - 59 - 0.00

NOTE

- FOR TYPICAL PANEL ELEVATIONS SEE SHEET 8/45.
- FOR SCUPPER DETAILS AND LIGHT SUPPORT DETAILS SEE SHEET 29/45.



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CLEVELAND, OHIO AKRON, OHIO

GENERAL PLAN AND ELEVATION 6/45

AKRON INNERBELT OVER BOWERY STREET, OHIO CANAL, WEST EXPRESSWAY AND RUSSELL AVENUE

BR. NO. SUM - 59 - 0000

AKRON OHIO SUMMIT COUNTY

STA. 114 + 52.10 TO STA. 129 + 52.60

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RLF	F.F.		JWW		12-20-84	2-4-85

F.H.W.A. REG.	STATE	PROJECT	
5	OHIO		

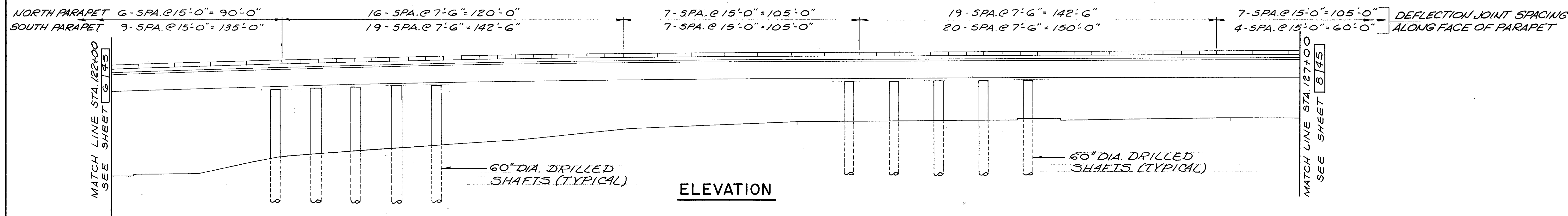
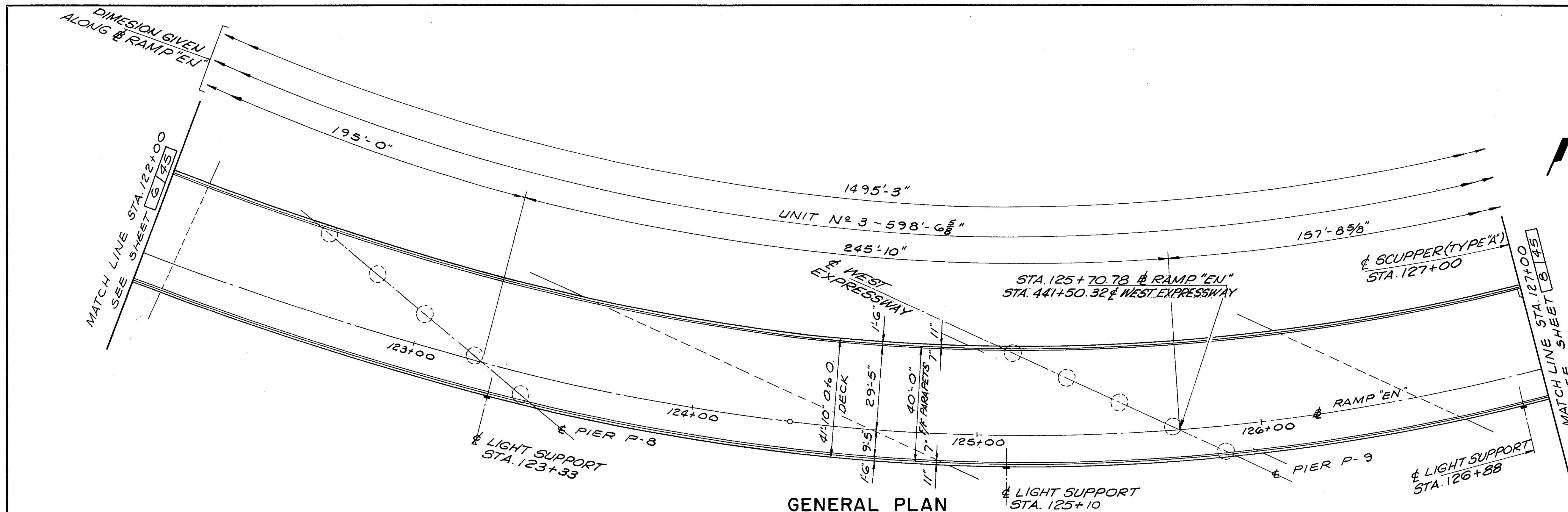
279
455

AKRON INNERBELT
SUM-59-0.00

NOTES

① FOR TYPICAL PANEL ELEVATIONS
SEE SHEET 8/45.

② FOR SCUPPER DETAILS AND LIGHT
SUPPORT DETAILS SEE SHEET 261/455



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GENERAL PLAN AND ELEVATION

AKRON INNERBELT OVER BOWERY STREET,
OHIO CANAL, WEST EXPRESSWAY
AND RUSSELL AVENUE

BR. NO. SUM-59-0000

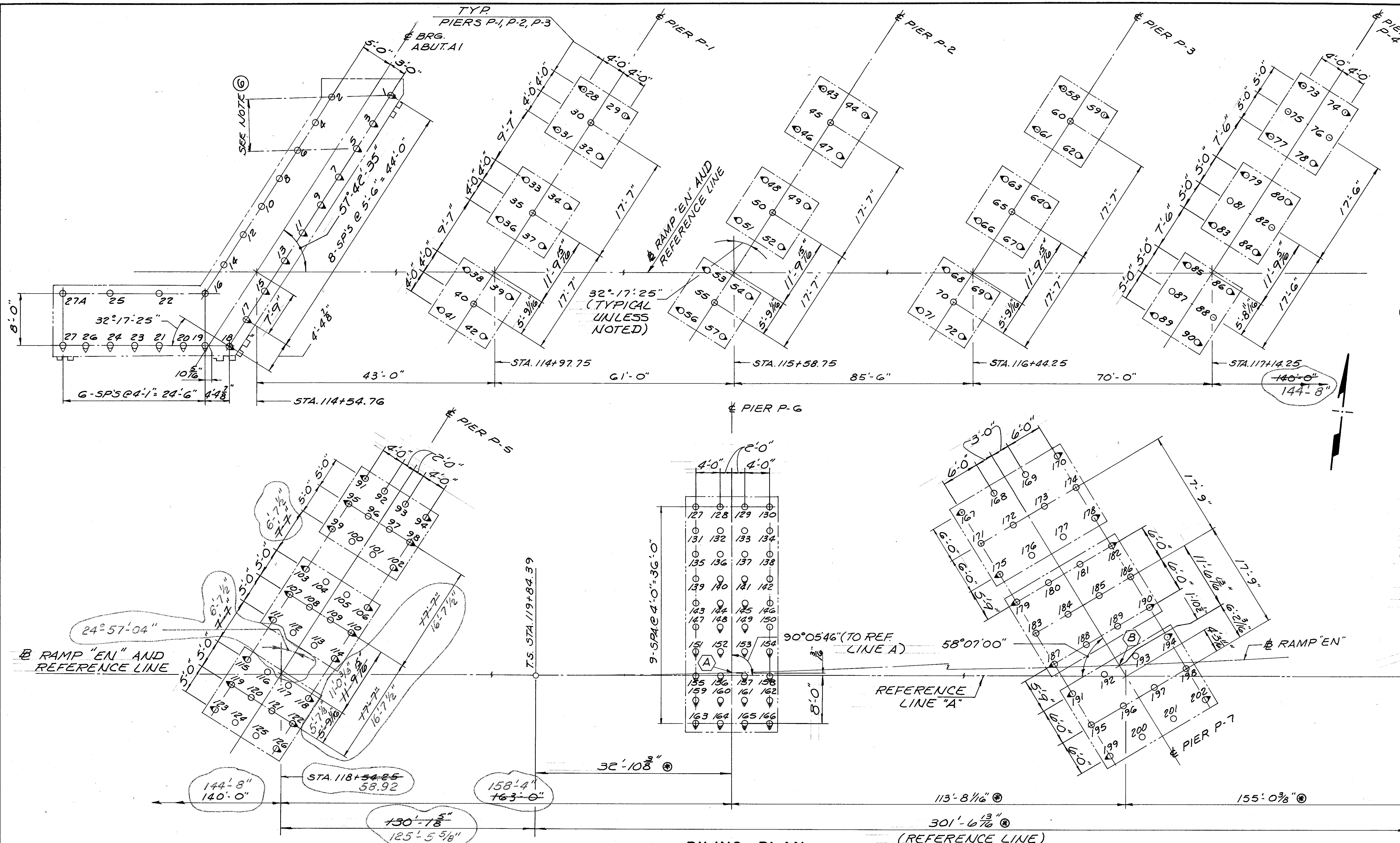
AKRON OHIO SUMMIT COUNTY
STA. 114+52.10 TO STA. 129+52.60

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RLF	E.F.		DLH JWW	JAL	12-20-77	

AKRON INNERBELT
SUM - 59 - 0.00

NOTES

- PILES SHOWN THUS $\odot$ SHALL BE BATTERED 1:3 IN THE DIRECTION SHOWN.
- PILES SHOWN THUS $\odot \uparrow$ SHALL BE BATTERED 1:4 IN THE DIRECTION SHOWN.
- THE 12" CAST-IN-PLACE REINFORCED CONCRETE PILES HAVE A DESIGN LOAD OF 47.5 TONS PER PILE FOR ABUTMENT PILES AND 50 TONS PER PILE FOR PIER PILES.
- FOR PILE CUT-OFF ELEVATIONS AND ESTIMATED PILE LENGTHS SEE PILE TABLE.
- STEEL HP 12x53 AND HP 10x42 PILES SHALL BE DRIVEN TO REFUSAL ON BEDROCK. REFUSAL SHALL BE CONSIDERED AS OBTAINED BY PENETRATING SOFT BEDROCK FOR SEVERAL INCHES WITH A MINIMUM RESISTANCE OF 20 BLOWS PER INCH OR REFUSAL SHALL BE CONSIDERED AS OBTAINED AFTER THE PILE HAS CONTACTED HARD BEDROCK AND THE PILE HAS THEN RECEIVED AT LEAST 20 BLOWS. THE DESIGN LOAD IS 50 TONS PER PILE FOR ABUT. PILES AND 70 TONS PER PILE FOR PIER PILES.
- PILES 1 THRU 6 SHALL BE PREBORED 45 PER ITEM - 50T " PREBORED HOLES (AS PER PLAN) SEE GENERAL NOTES SHEET 455
- $\odot$ DENOTES DIMENSIONS SHOWN ARE MEASURED ALONG THE REFERENCE LINE.



PILING PLAN

INDICATES SHEET PILING. SEE ABUT. A-1 DETAILS SHEET 12/45 & 13/45 FOR REQUIRED SECTION MODULUS AND LENGTH.

FOR ADDITIONAL GEOMETRIC LAYOUT DATA SEE SHEETS 260/455, 6/455 AND 7/455

STATIONS

- A STA. 120 + 17.26
- B STA. 121 + 29.95

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PILING PLAN

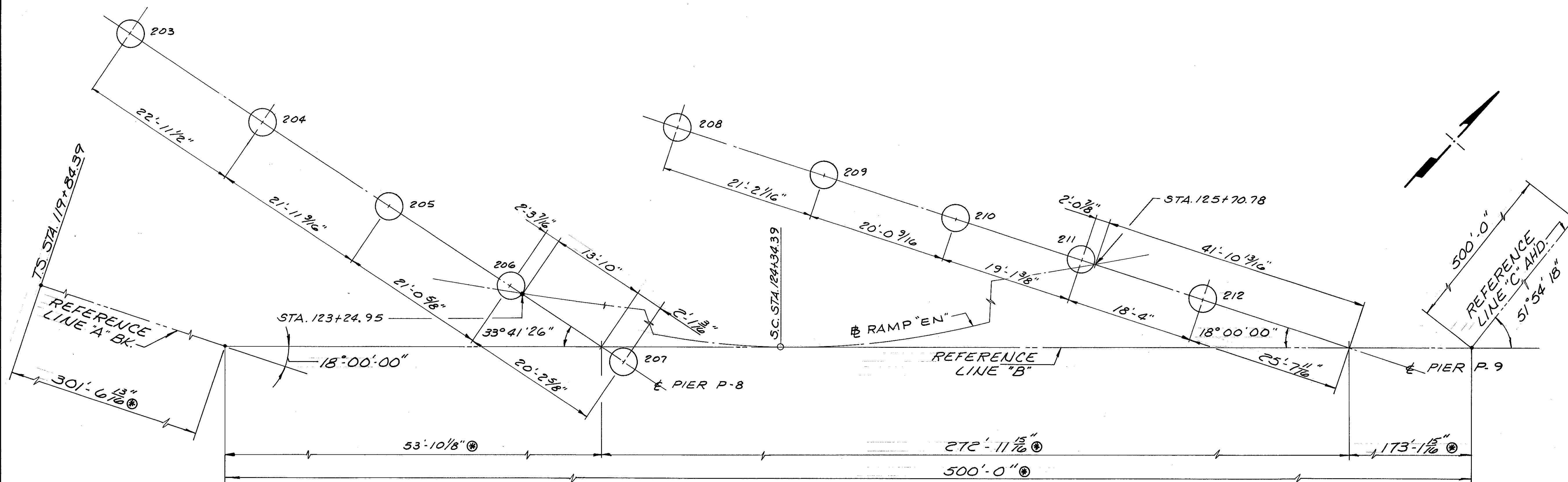
AKRON INNERBELT OVER BOWERY STREET,
OHIO CANAL, WEST EXPRESSWAY AND
RUSSELL AVENUE
BR. NO. SUM-59-0000
AKRON OHIO SUMMIT COUNTY
STA. 114 + 52.10 TO STA. 129 + 52.60

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RER	f.f.		JWW	JGP	12-20-84	2-4-85

AKRON INNERBELT
SUM-59-0.00

NOTES

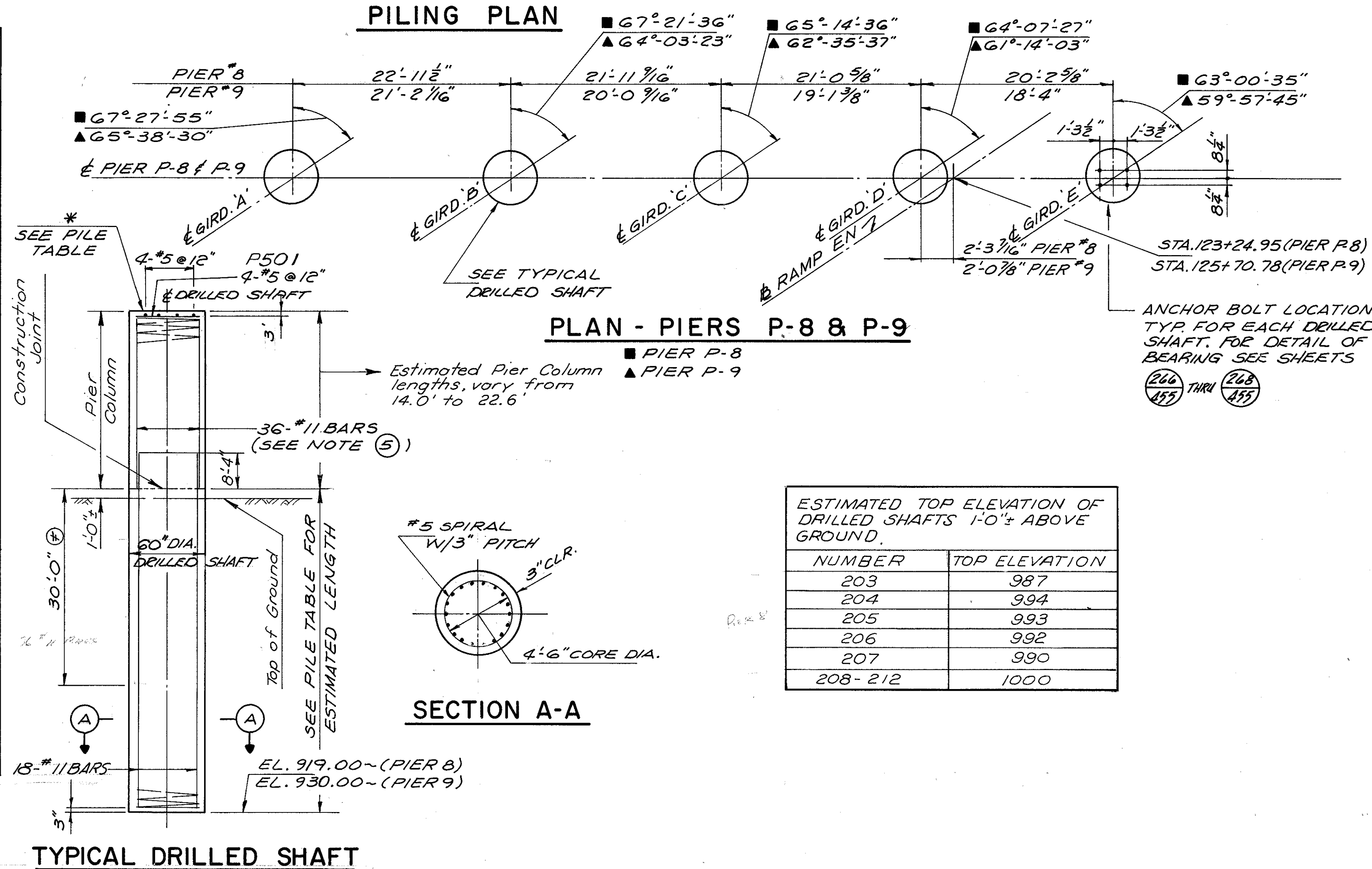
- 1 CONCRETE AND REINFORCING STEEL INSIDE DRILLED SHAFTS TO BE INCLUDED WITH ITEM-SPECIAL "60" DIAMETER DRILLED SHAFTS FOR PAYMENT.
- 2 THE DESIGN LOAD FOR 60" DIAMETER DRILLED SHAFTS IS 300 TONS.
- 3 ■▲ SKEW ANGLE SHOWN IS TO THE LOCAL TANGENT OF THE CURVED GIRDER INTERSECTING THE & BEARING.
- 4 SEE SPECIAL PROVISIONS FOR SPECIFICATION OF THE 60" DIAMETER DRILLED SHAFTS AND THE MECHANICAL CONNECTORS.
- 5 CONTRACTOR MAY USE APPROVED MECHANICAL CONNECTORS AT LOCATIONS APPROVED BY THE ENGINEER STAGGER CONNECTIONS BY 2'-0" MINIMUM FOR ALTERNATE BARS. LAP LENGTH FOR THE #11 BARS IS 8'-4" MIN.
- 6 THE ANCHOR BOLTS FOR BEARINGS PLACED ON TOP OF DRILLED SHAFTS SHALL BE PRE-SET.
- 7 SPACE REINFORCING WITHIN THE LAP SPICES OF THE 60" DRILLED SHAFTS TO PROVIDE 2" MIN. CLEARANCE BETWEEN BARS.
- 8 ⊕ DENOTES DIMENSIONS SHOWN ARE MEASURED ALONG THE REFERENCE LINE. FOR ADDITIONAL GEOMETRIC LAYOUT DATA SEE SHEETS 260/455, 261/455 AND 262/455
- 9 ⊕ THE TOP 30 FEET OF EACH DRILLED SHAFT IS REINFORCED WITH 36 #11 BARS AND THE REMAINDER OF THE DRILLED SHAFT IS REINFORCED WITH 18-#11 BARS.



PILE TABLE

SUBSTRUCTURE UNIT	PILE NUMBER	PILE TYPE	CUT-OFF ELEVATION	ESTIMATED LENGTH
ABUT. A-1	1-5	12"C.I.P. R.C.P.	974.50	50'
ABUT. A-1	6-11	12"C.I.P. R.C.P.	971.50	50'
ABUT. A-1	12 THRU 27 & 27A	12"C.I.P. R.C.P.	968.50	50'
PIER P-1	28-42	12"C.I.P. R.C.P.	967.00	50'
PIER P-2	43-57	12"C.I.P. R.C.P.	967.00	50'
PIER P-3	58-72	12"C.I.P. R.C.P.	966.00	50'
PIER P-4	73-90	12"C.I.P. R.C.P.	966.50	50'
PIER P-5	91-126	12"C.I.P. R.C.P.	971.00	70'
PIER P-6	127-166	12"C.I.P. R.C.P.	971.50	80'
PIER P-7	167-202	12"C.I.P. R.C.P.	971.00	65'
PIER P-8	203	60" DRILLED SHAFTS	1009.53 *	68'
PIER P-8	204		1010.47 *	75'
PIER P-8	205		1011.38 *	74'
PIER P-8	206		1012.27 *	73'
PIER P-8	207		1012.64 *	71'
PIER P-9	208		1013.92 *	70'
PIER P-9	209		1014.62 *	70'
PIER P-9	210		1015.29 *	70'
PIER P-9	211		1015.92 *	70'
PIER P-9	212	60" DRILLED SHAFTS	1015.99 *	70'
PIER P-10	213-248	HP 12x53	981.00	35'
PIER P-11	249-257	HP 12x53	979.50	25'
PIER P-11	258-266	HP 12x53	980.50	25'
PIER P-11	267-275	HP 12x53	981.50	25'
ABUT. A-2	276-293	HP 10x42	1008.00	50'

PILING PLAN



SECTION A-A

TYPICAL DRILLED SHAFT

NUMBER	TOP ELEVATION
203	987
204	994
205	993
206	992
207	990
208-212	1000

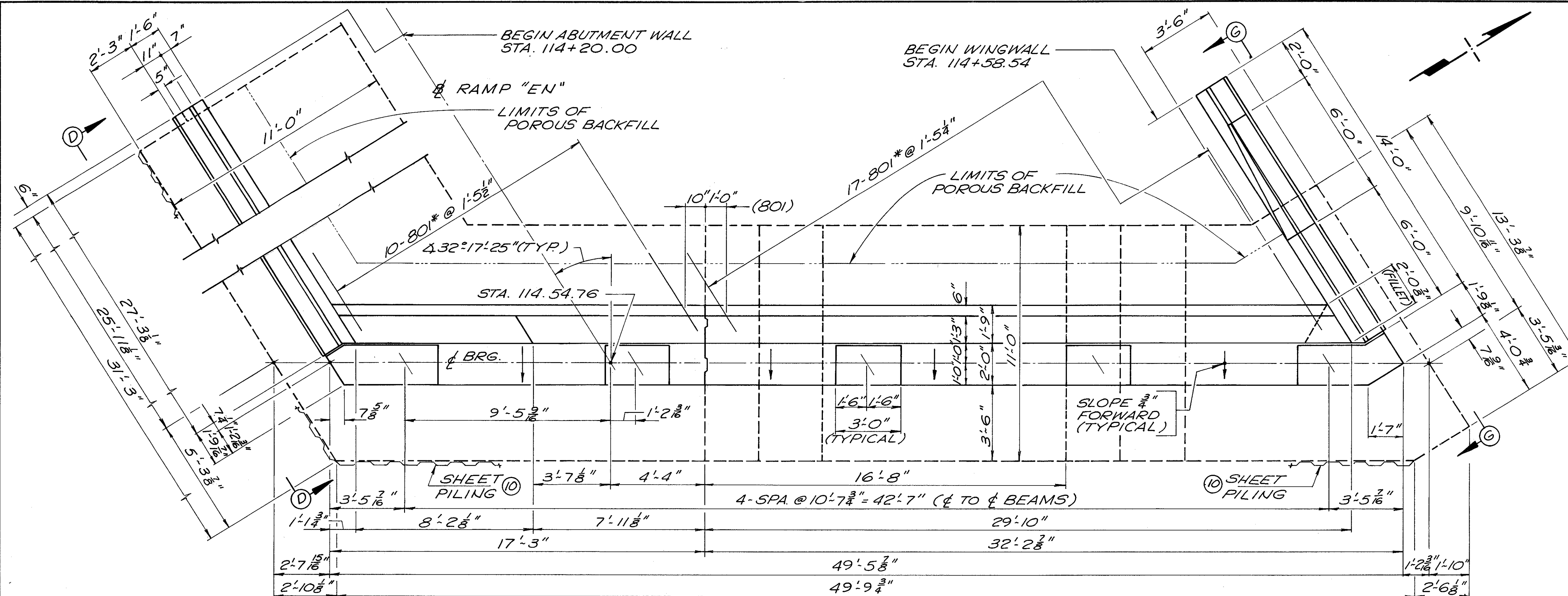
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455

STATE OF OHIO					
DEPARTMENT OF TRANSPORTATION					
BUREAU OF BRIDGES AND STRUCTURAL DESIGN					
DRILLED SHAFTS BR. NO. SUM-59-0.00 Innerbelt over Bowery St, Ohio Canal, West Expressway & Russell Avenue SUMMIT COUNTY					
DESIGNED <i>RLE</i>	DRAWN	TRACED <i>T.G.C.</i>	CHECKED <i>CKT</i>	REVIEWED	DATE

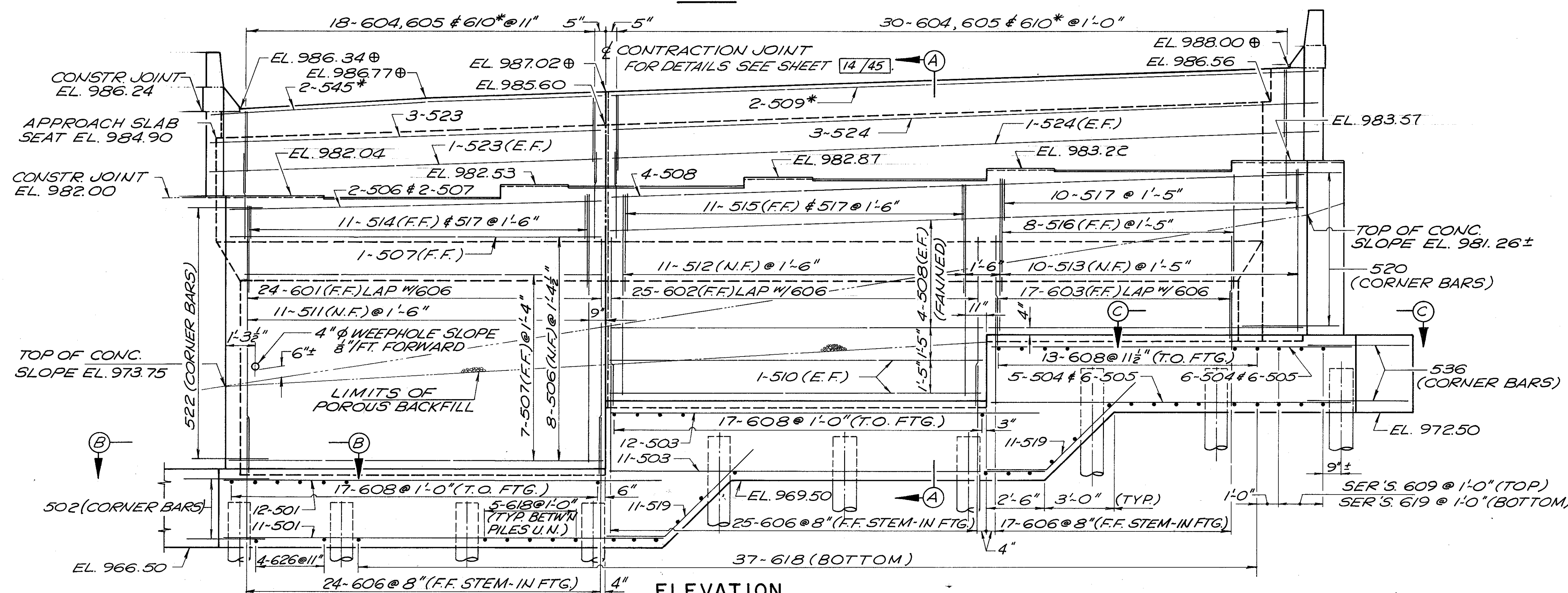
AKRON INNERBELT
SUM-59-0.00

NOTES

- ABBREVIATIONS USED ARE:
N.F. - NEAR FACE
F.F. - FAR FACE
E.F. - EACH FACE
FTG. - FOOTING
- BACKWALL ELEVATIONS SHOWN THUS "B" ARE GIVEN AS FINAL PAVEMENT ELEVATIONS AT THE FRONT FACE OF THE BACKWALL. SEE DETAIL "X" SHEET 14/45.
- THE PREFIX "1A" SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE ABUTMENT UNLESS SHOWN OTHERWISE.
- POROUS BACKFILL, FULL LENGTH OF ABUTMENT AND WINGS SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE WITHIN THE ROADWAY AREA EXTENDED Laterally TO THE WINGWALLS.
- FOR PILING PLAN SEE SHEET 9/45.
- FOR SECTIONS "A-A", "C-C" & VIEW "G-G" SEE SH. 14/45, FOR VIEWS "D-D" & SECTION "B-B" SEE SH. 13/45.
- BACKWALL CONCRETE: IN ADDITION TO THE PROVISIONS OF 511.08, BACKWALL CONCRETE ABOVE THE OPTIONAL CONSTRUCTION JOINT AT THE APPROACH SLAB SHALL NOT BE PLACED UNTIL AFTER THE DECK CONCRETE IN THE SPAN ADJACENT TO THE ABUTMENT HAS BEEN PLACED.
- ALL REINFORCING BARS SHOWN THUS "*" ARE EPOXY COATED.
- FOR SPECIAL EMBANKMENT NOTES SEE STRUCTURAL GENERAL NOTES.
- SHEET PILING LEFT IN PLACE SHALL HAVE A MINIMUM SECTION MODULUS OF 7 IN.³ PER FOOT OF WALL.
- REINFORCING BAR CLEARANCE SHALL BE 2 1/2" UNLESS OTHERWISE SHOWN.



PLAN



ELEVATION

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ABUTMENT A-1 DETAILS

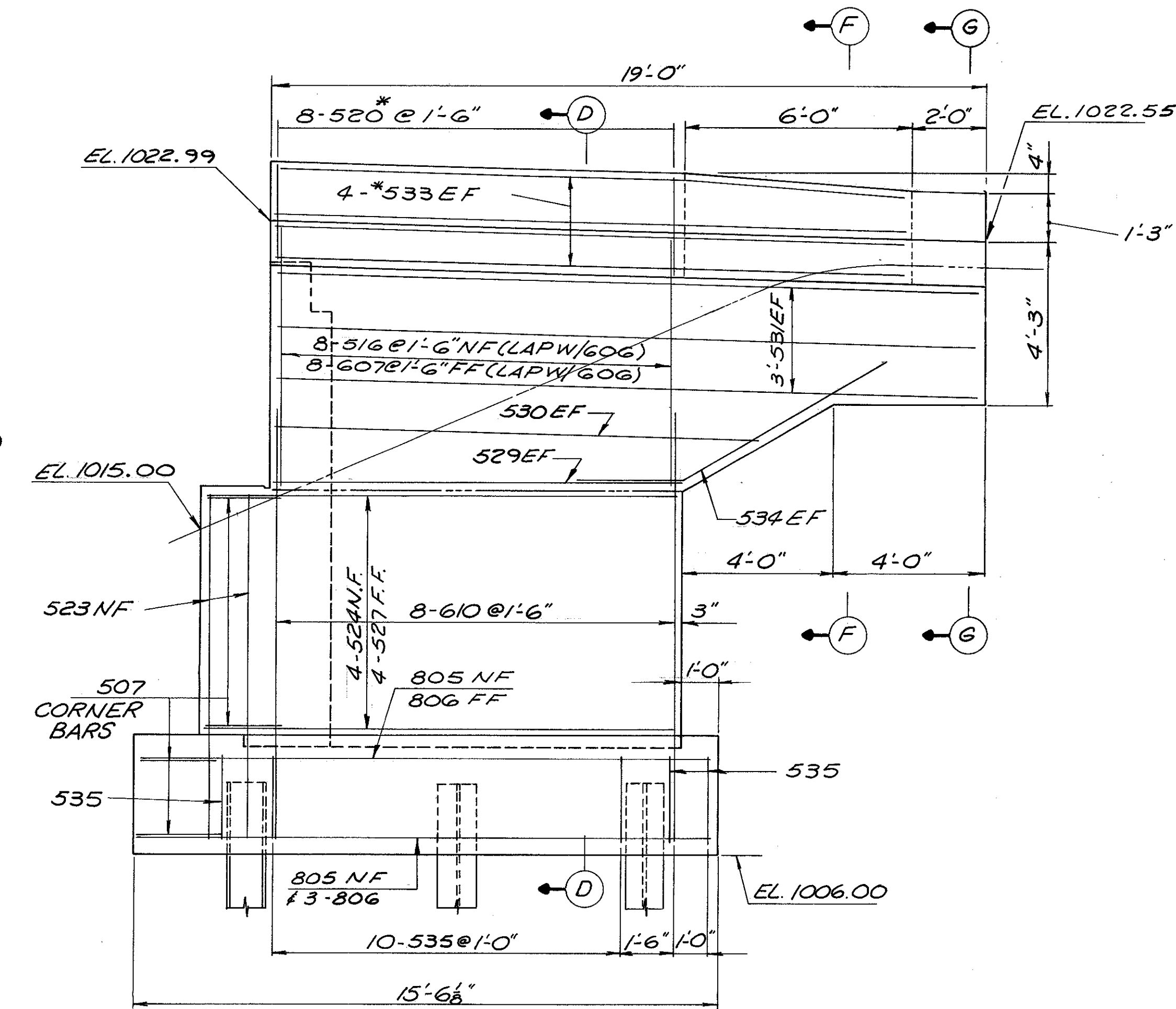
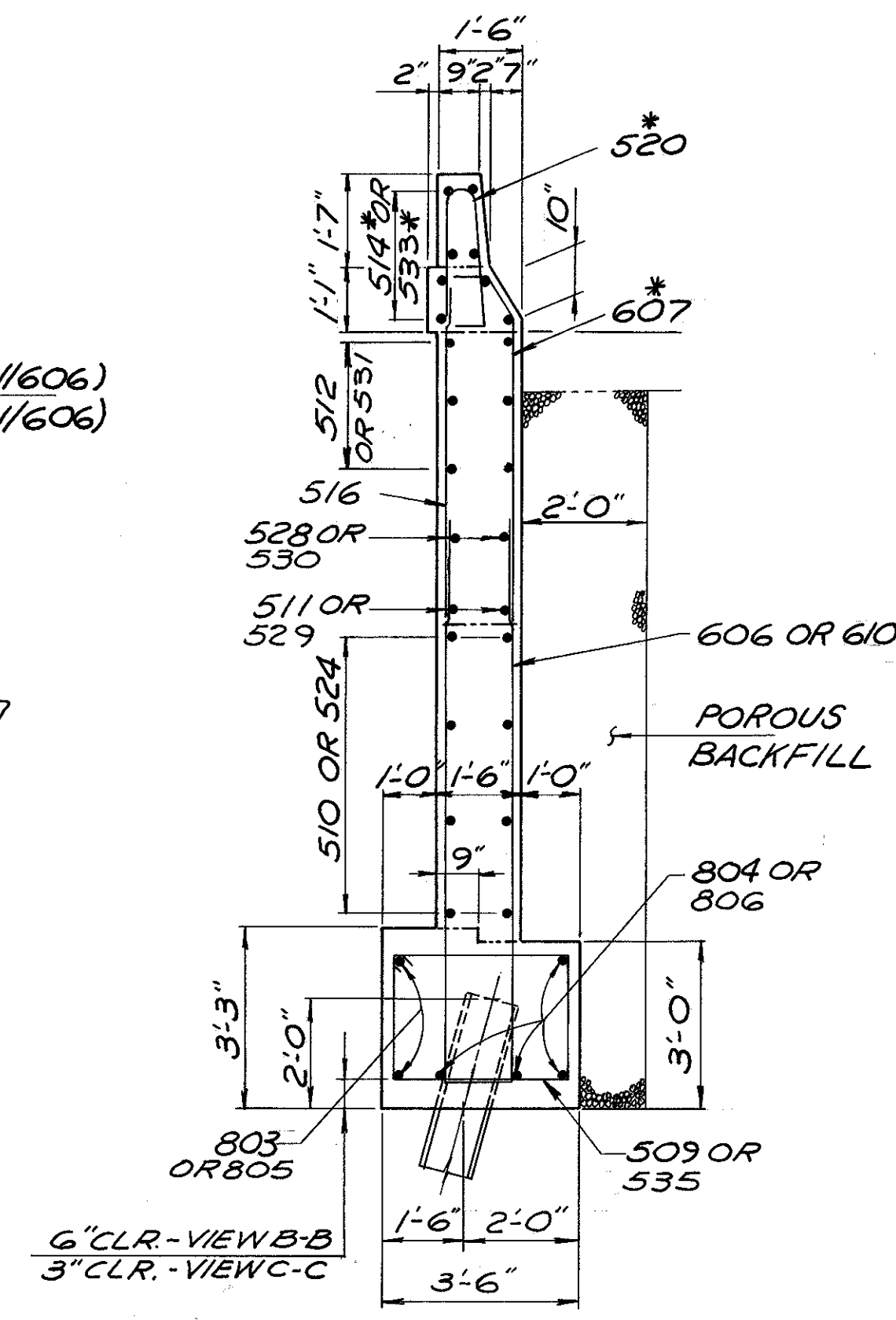
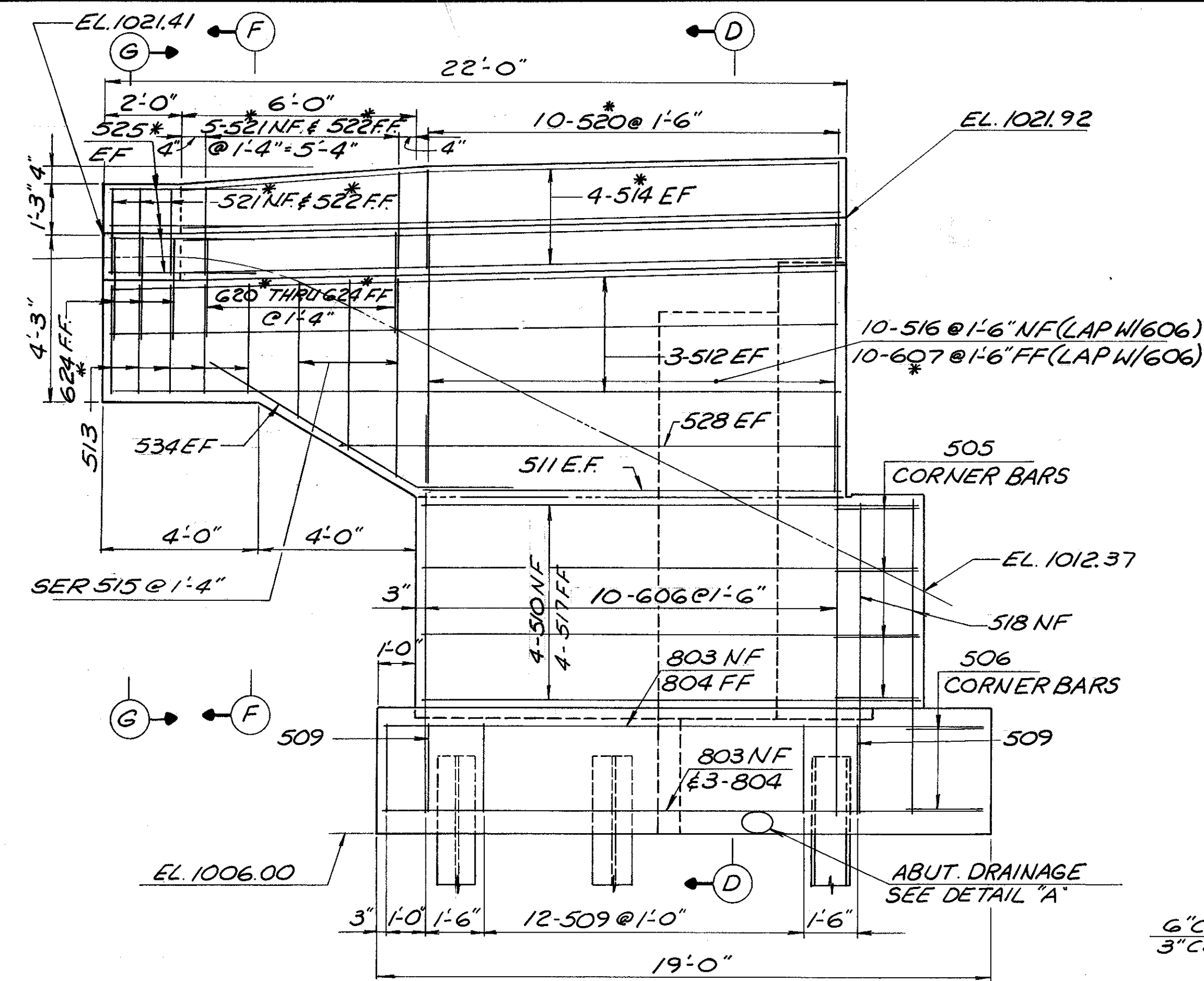
AKRON INNERBELT OVER BOWERY STREET,
OHIO CANAL, WEST EXPRESSWAY
AND RUSSELL AVENUE

BR. NO. SUM-59-0000

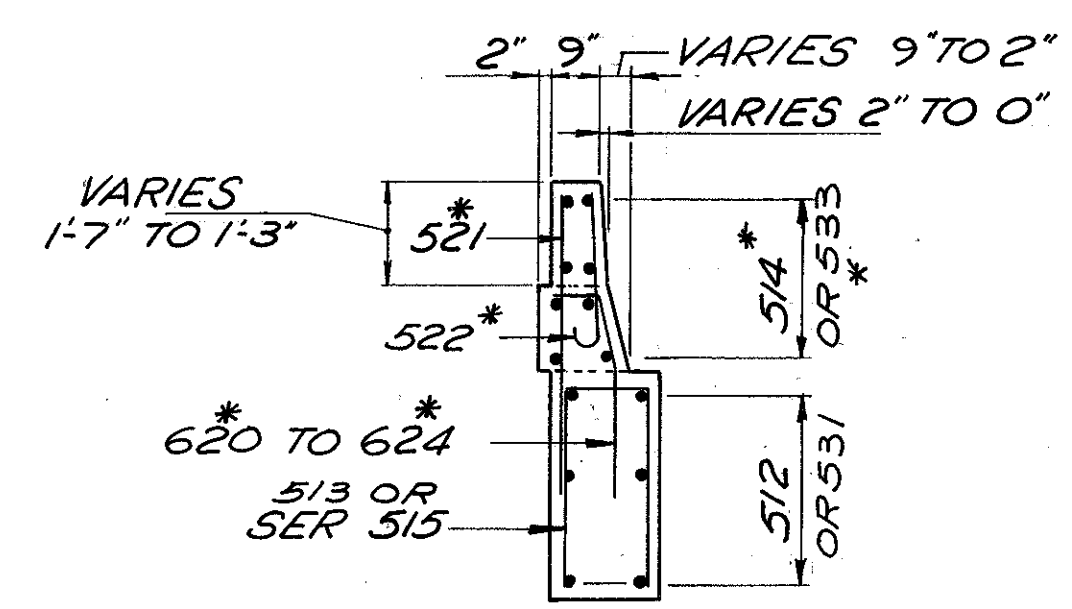
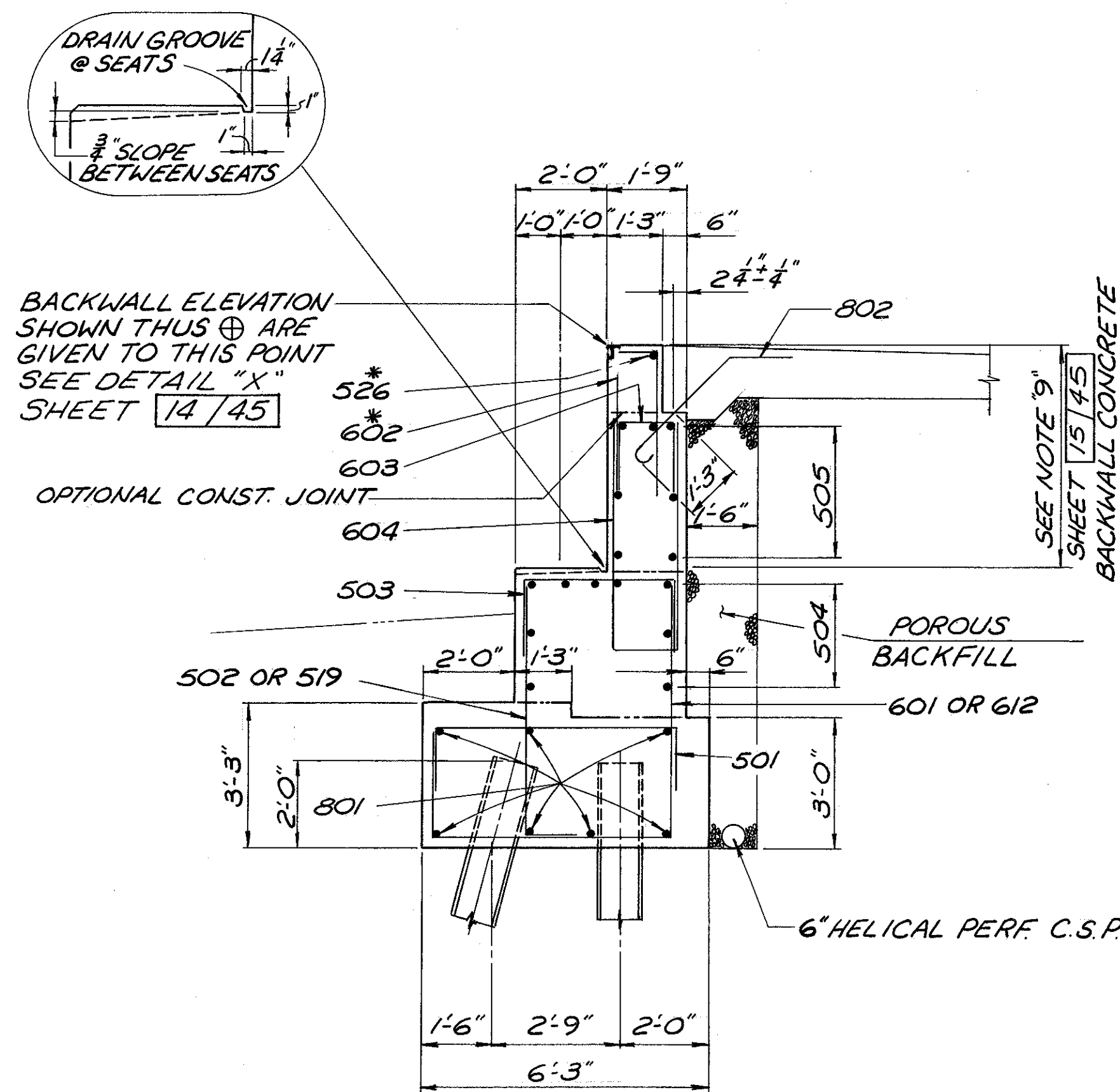
AKRON OHIO SUMMIT COUNTY
STA. 114+52.10 TO STA. 129+52.60

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
K II	D.T.		A.H.	820	12-20-92	

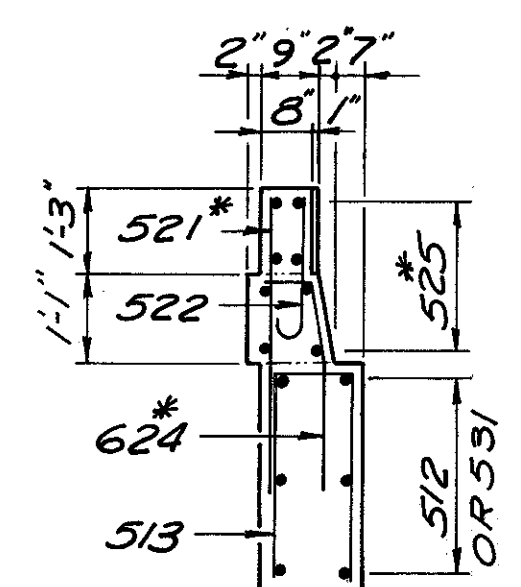
AKRON INNERBELT
SUM - 59 - 0.00



FOR REINFORCING STEEL
NOT SHOWN IN CANTILEVER
SEE VIEW B-B



SECTION F-F



SECTION G-G

NOTES:

* INDICATES REINFORCING BARS TO
BE EPOXY COATED.

FOR NOTES AND DETAILS NOT SHOWN
HERE SEE ABUTMENT DETAIL
SHEET 15/45.

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CLEVELAND, OHIO			AKRON, OHIO		
16/45					
ABUTMENT A-2 DETAILS					
AKRON INNERBELT OVER BOWERY STREET, OHIO CANAL, WEST EXPRESSWAY AND RUSSELL AVENUE BR. NO. SUM-59-0000					
AKRON OHIO			SUMMIT COUNTY		
STA. 114 + 52.10 TO STA. 129 + 52.60					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
PKL	D.T.		4/4	9/8	12-20-82

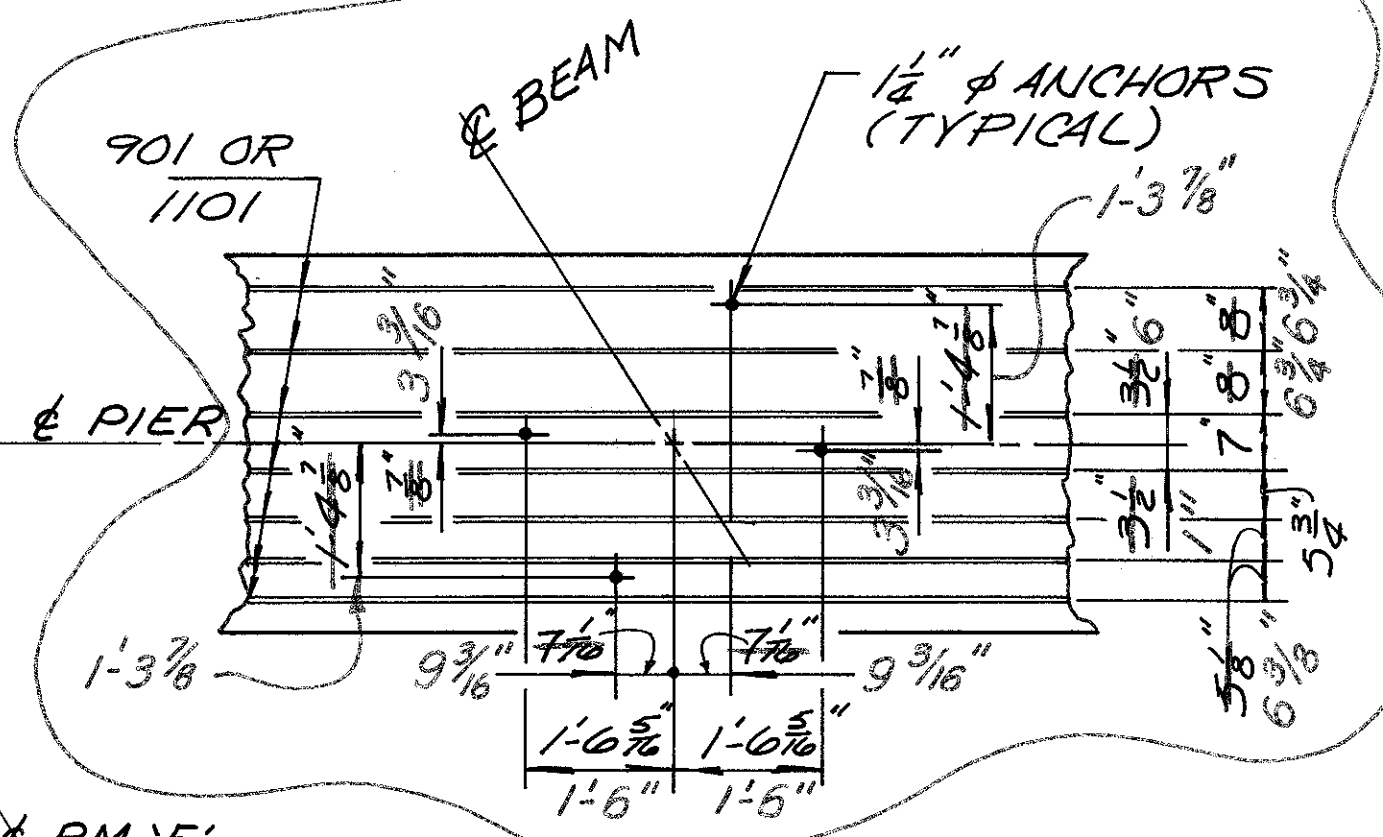
F.H.W.A. REG.	STATE	PROJECT
5	OHIO	

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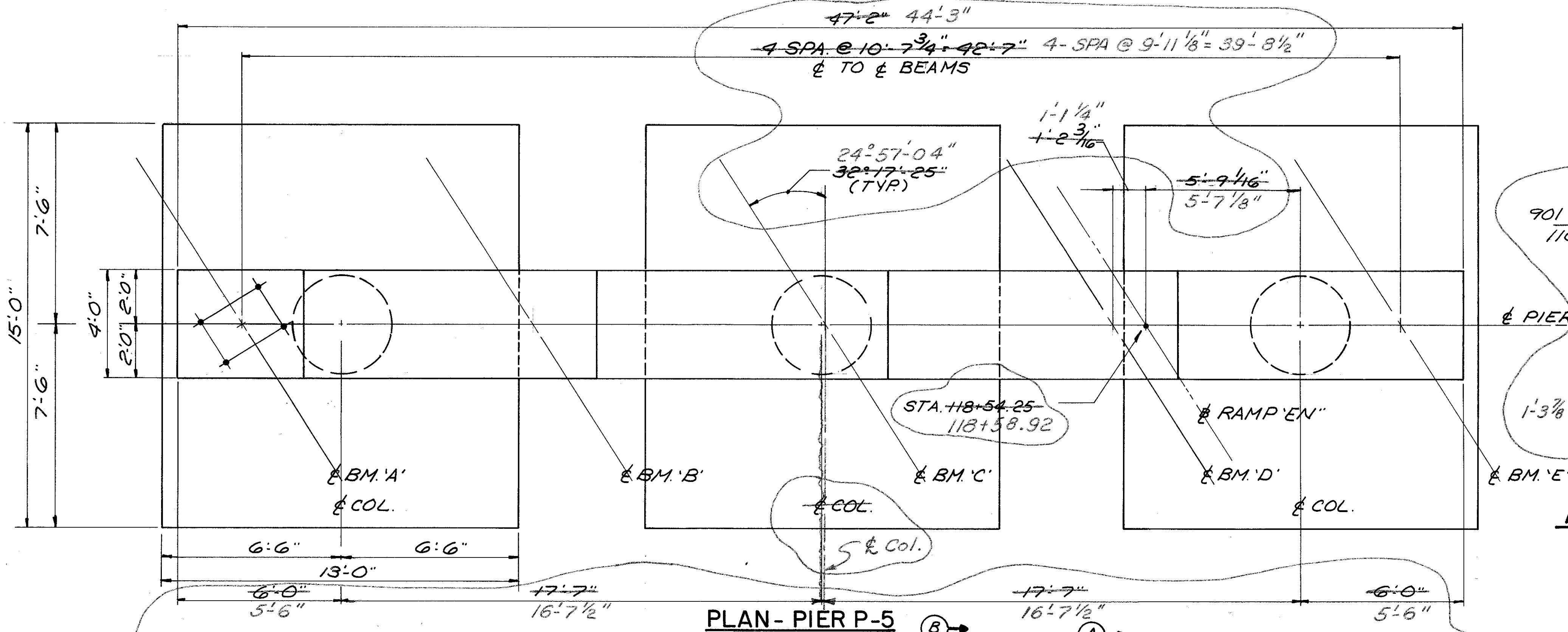
AKRON INNERBELT
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NOTES

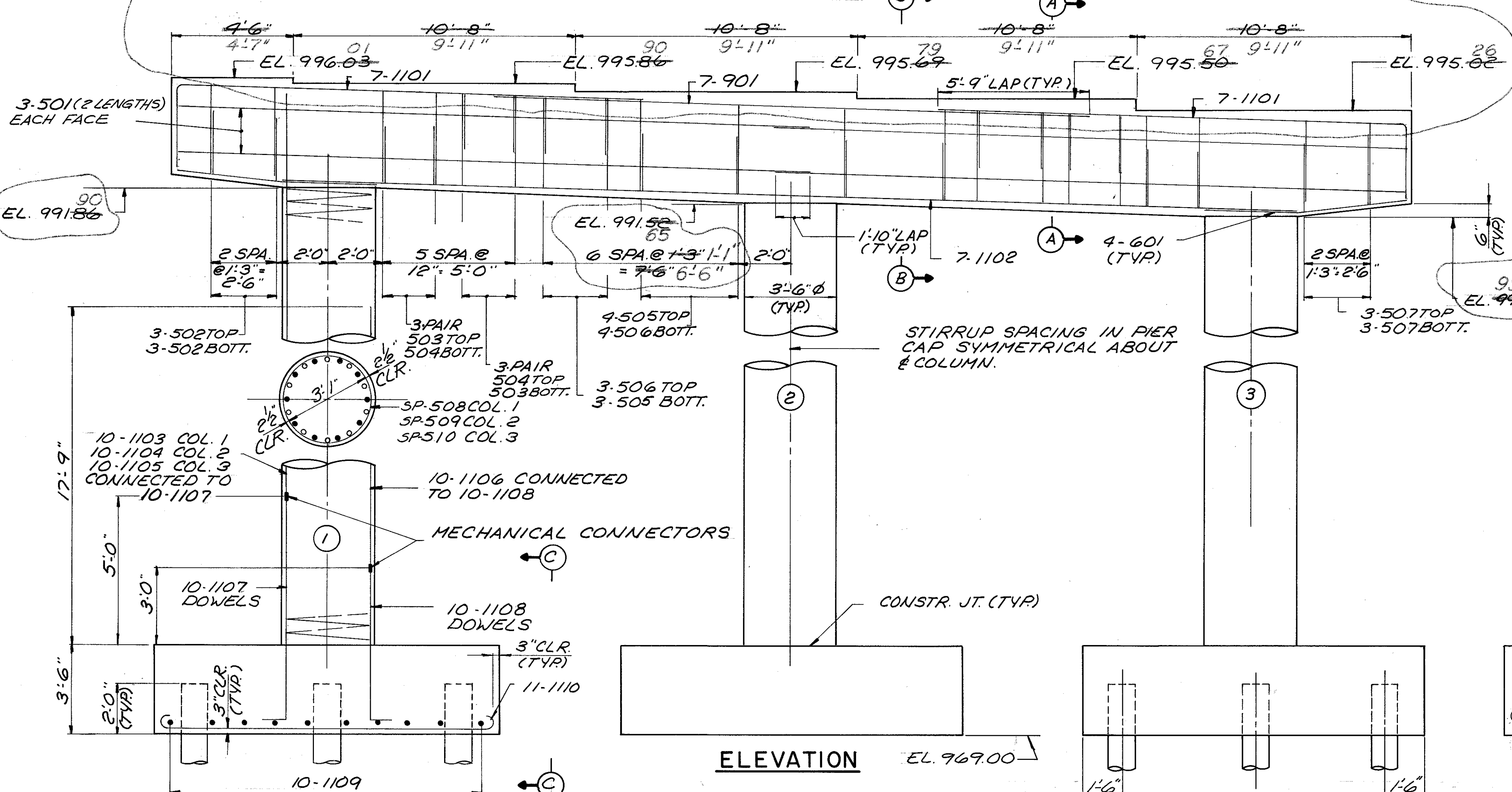
- 1 THE PREFIX 5P SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN PIER P-5 UNLESS SHOWN OTHERWISE.
- 2 BRIDGE SEAT REINFORCING: SPECIAL CARE SHALL BE TAKEN IN PLACING REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT SO AS TO AVOID INTERFERENCE WITH THE DRILLING OF ANCHOR HOLES OR PRE-SETTING OF BEARING ANCHORS.
- 3 SPLICES FOR #11 REINFORCING BAR SIZES SHALL BE MADE WITH APPROVED MECHANICAL CONNECTORS, SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION



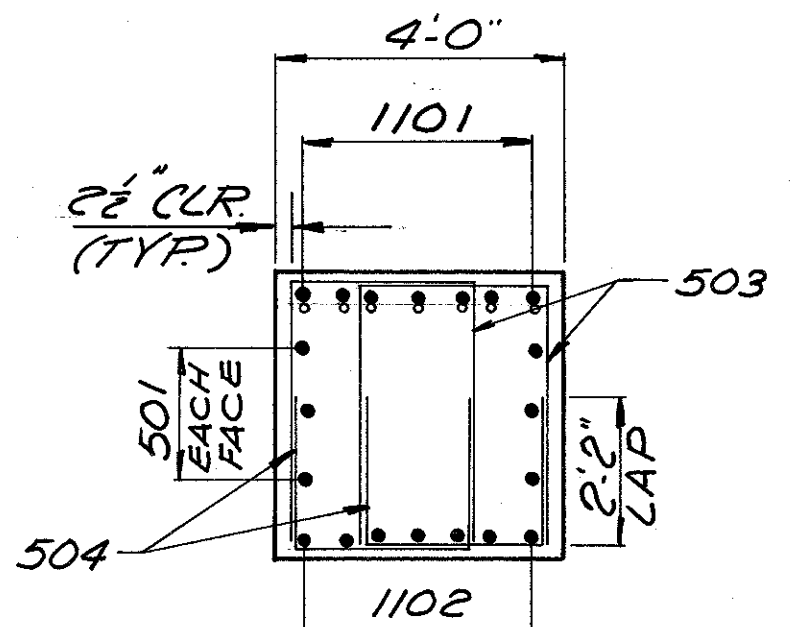
ANCHOR BOLT LOCATION DETAIL



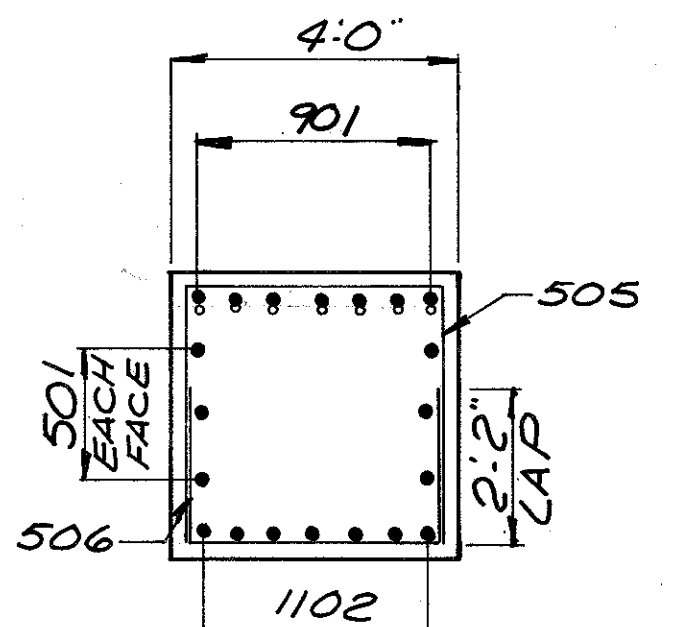
PLAN - PIER P-5



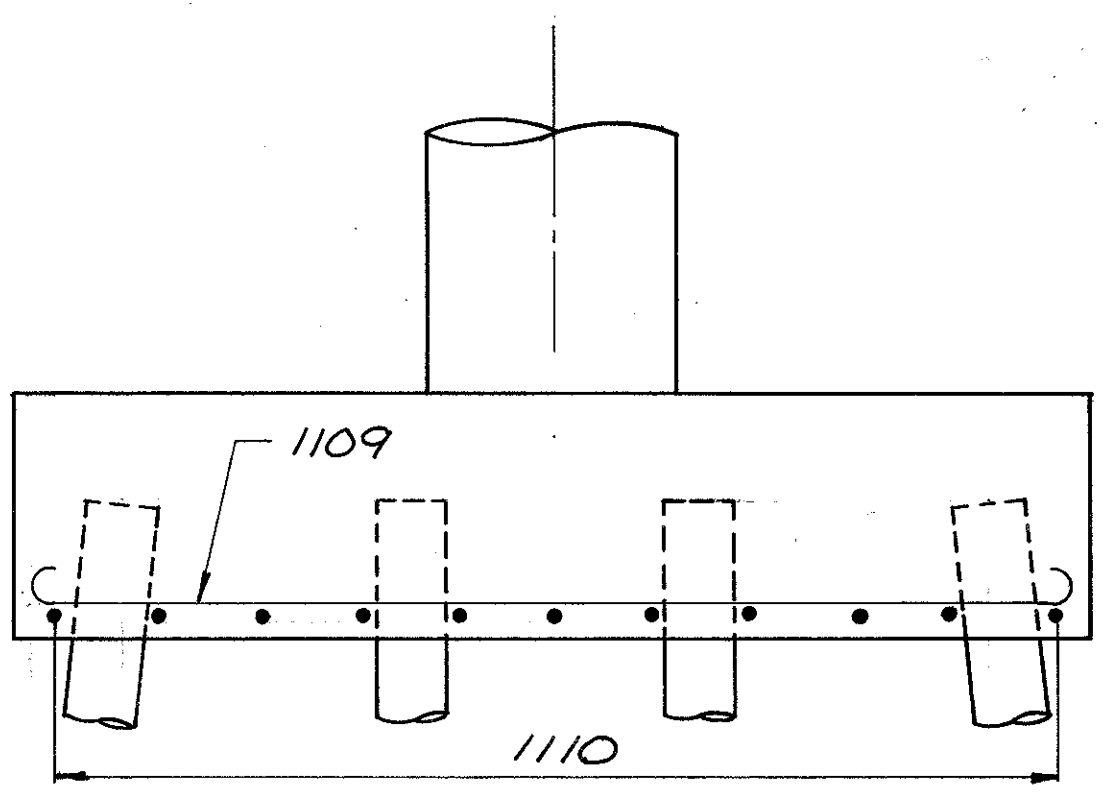
ELEVATION



SECTION A-A



SECTION B-B



SECTION C-C

DALTON · DALTON · NEWPORT		
CLEVELAND, OHIO	AKRON, OHIO	
PIER P-5 DETAILS		
19/45		
AKRON INNERBELT OVER BOWERY STREET, OHIO CANAL, WEST EXPRESSWAY AND RUSSELL AVENUE BR. NO. SUM-59-0000		
AKRON OHIO SUMMIT COUNTY		
STA. 114 + 52.10 TO STA. 129 + 52.60		
DESIGNED M.S.C.	DRAWN CDG	TRACED VW
CHECKED JSP	DATE 12-20-85	REVISED 2-4-85

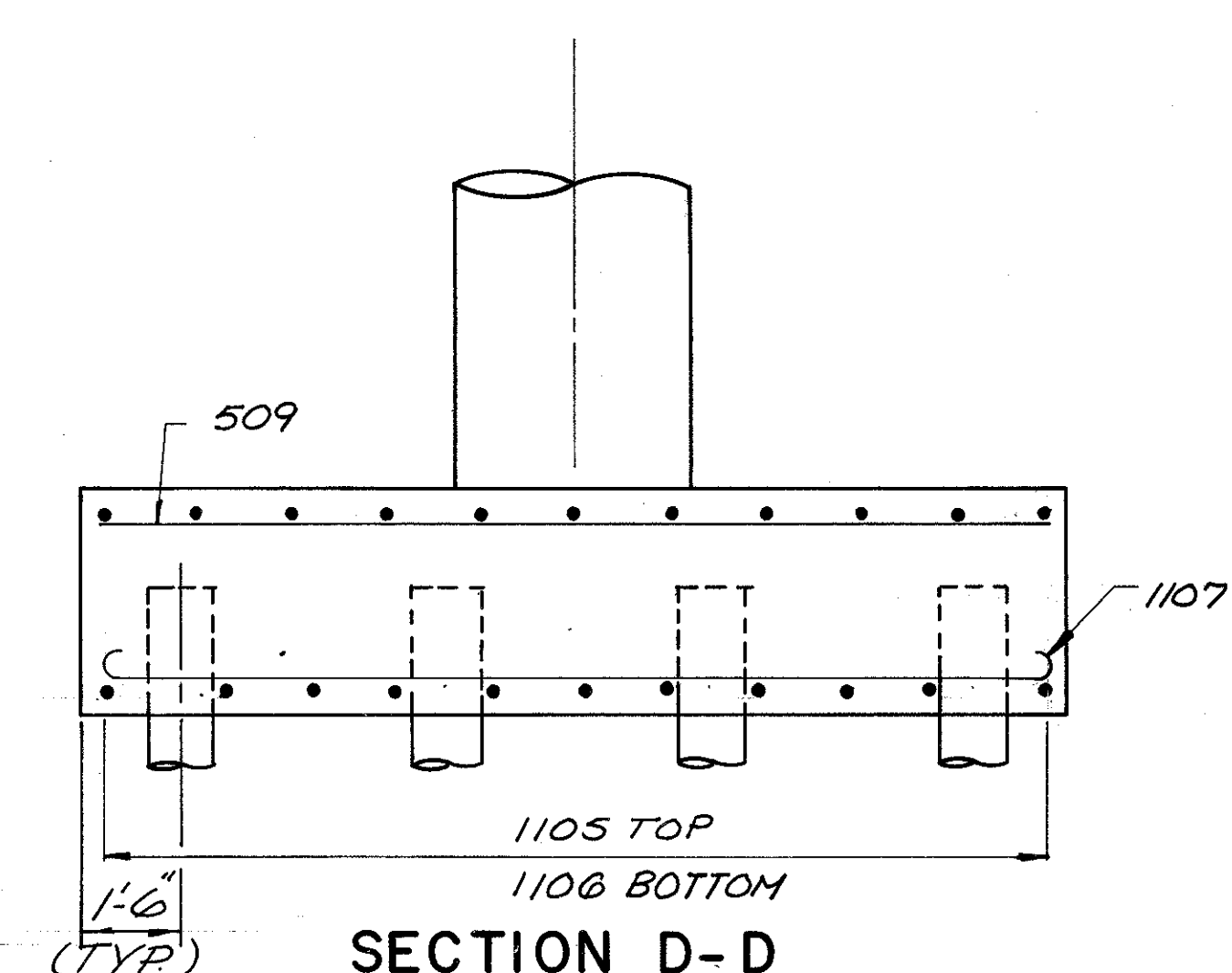
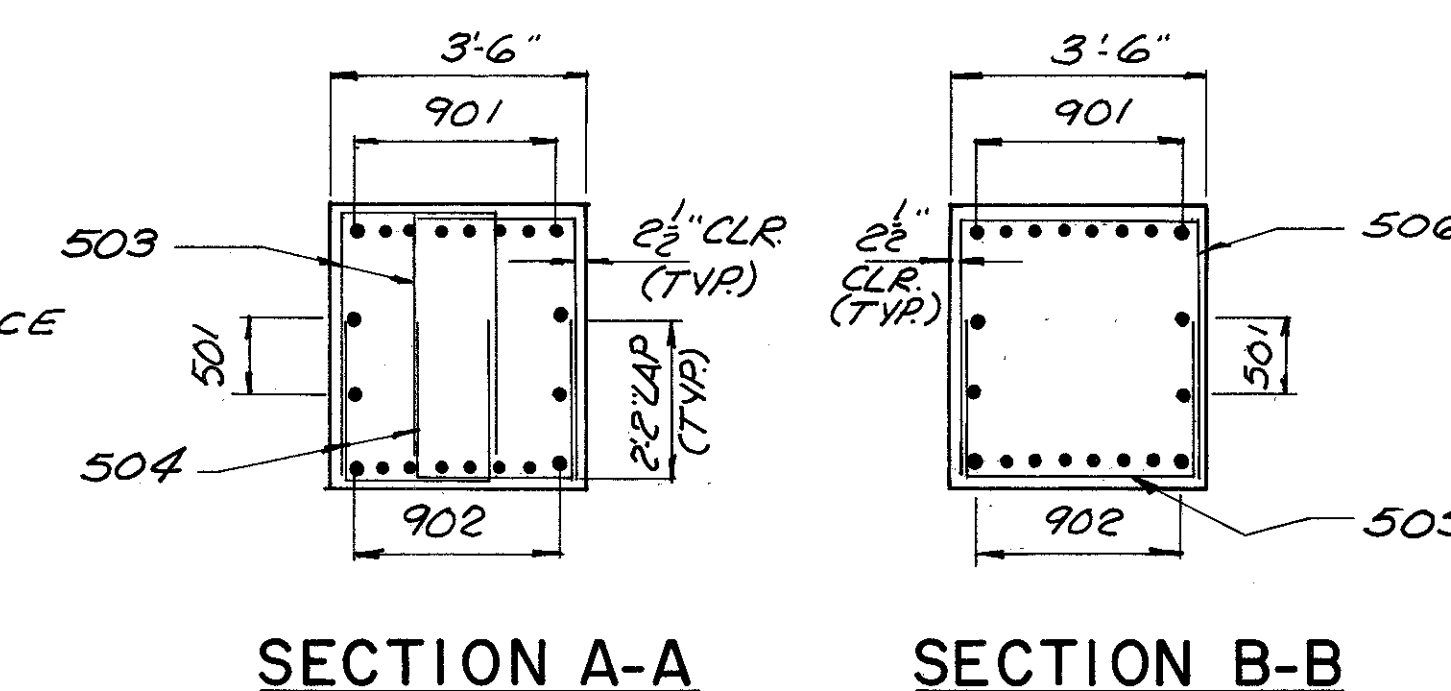
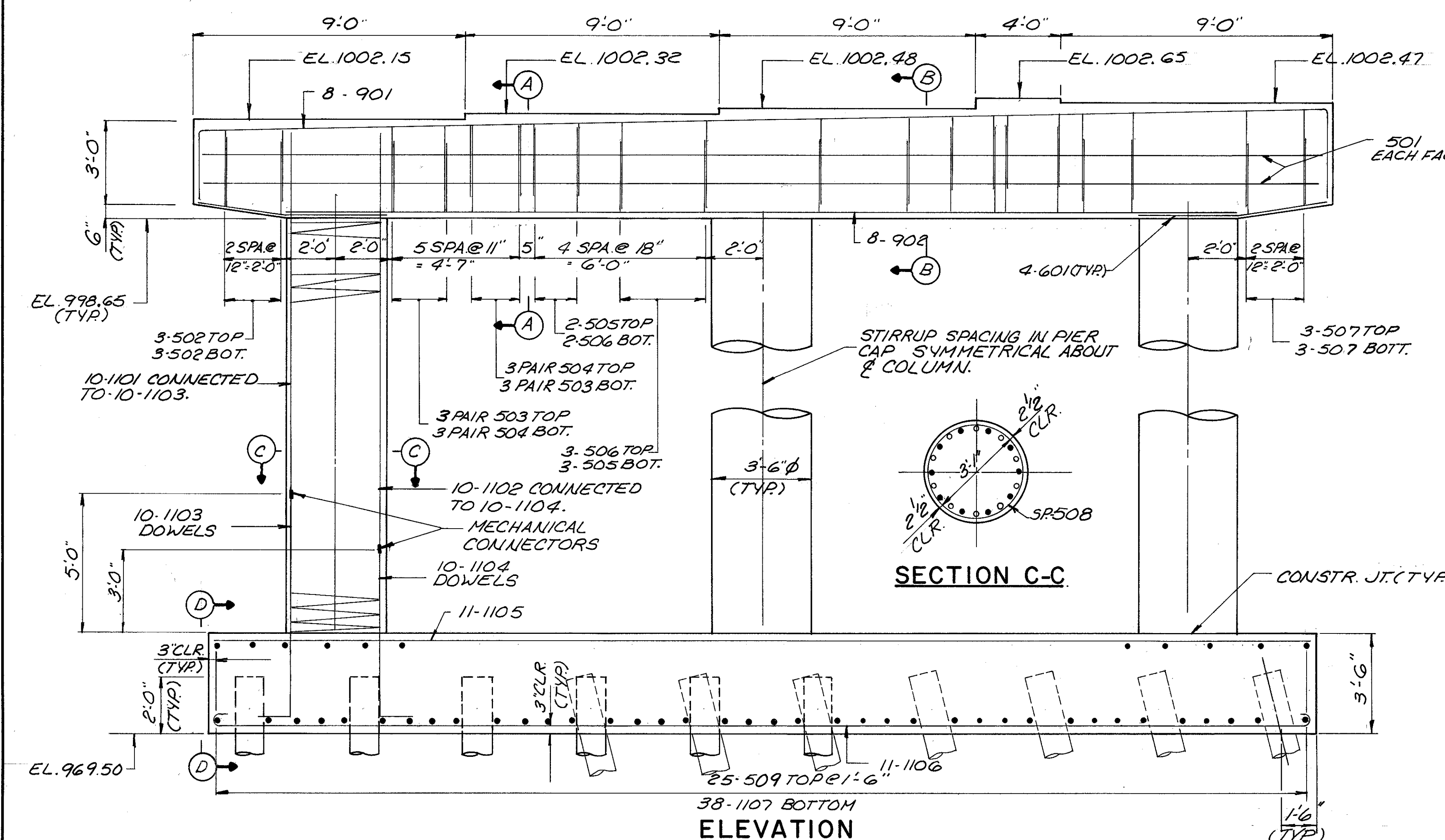
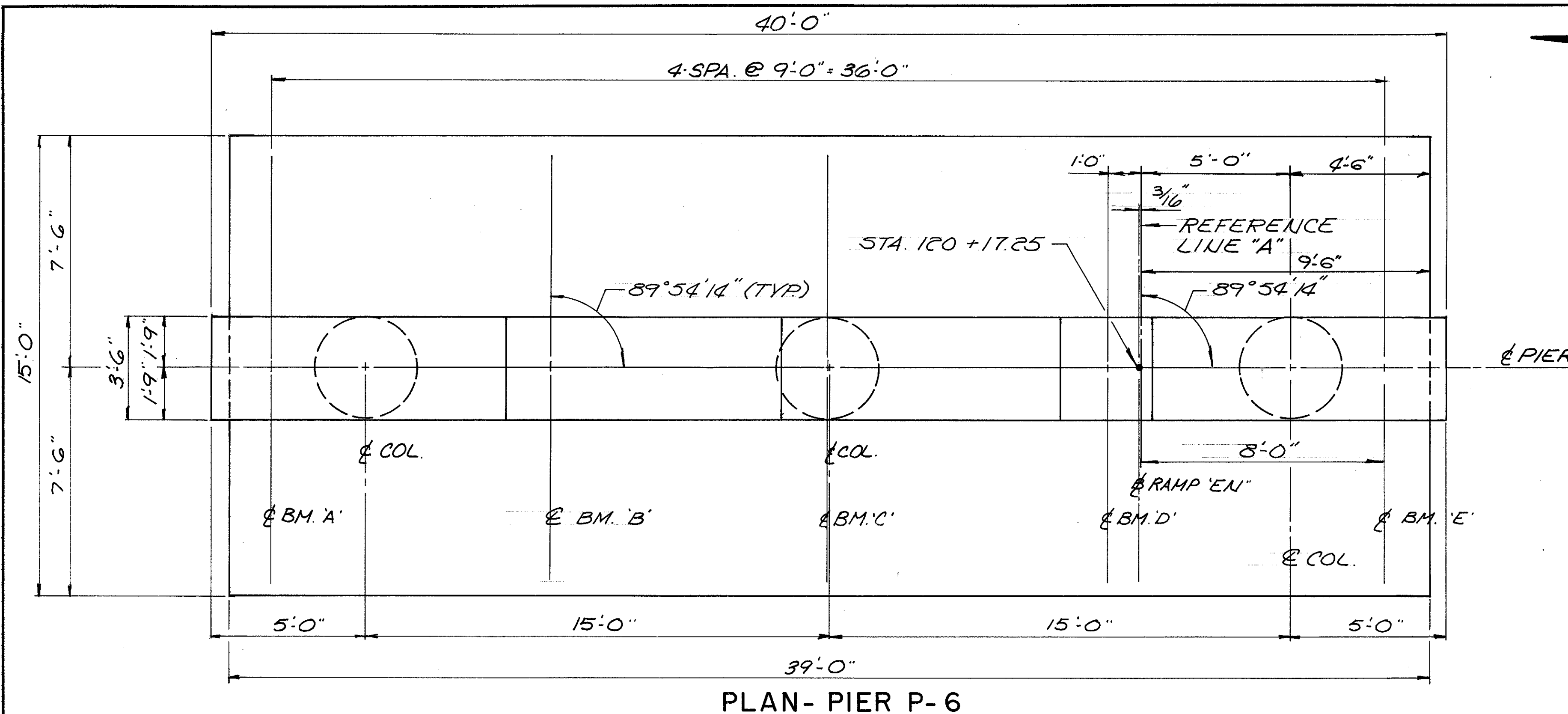
F.H.W.A. REG.	STATE	PROJECT	
5	OHIO		

292
455

AKRON INNERBELT
SUM-59-0.00

NOTES

- THE PREFIX GP SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN PIER P-6 UNLESS SHOWN OTHERWISE.
- SEE NOTE ③ SHEET 21/45.



DALTON · DALTON · NEWPORT			
CLEVELAND, OHIO		AKRON, OHIO	
PIER P-6 DETAILS			
AKRON INNERBELT OVER BOWERY STREET, OHIO CANAL , WEST EXPRESSWAY AND RUSSELL AVENUE BR. NO. SUM-59-0000 AKRON OHIO SUMMIT COUNTY STA. 114 + 52.10 TO STA. 129 + 52.60			
DESIGNED	DRAWN	TRACED	CHECKED
M.S.C.	COG		dwg
DATE	DATE	DATE	DATE
			12-20-92

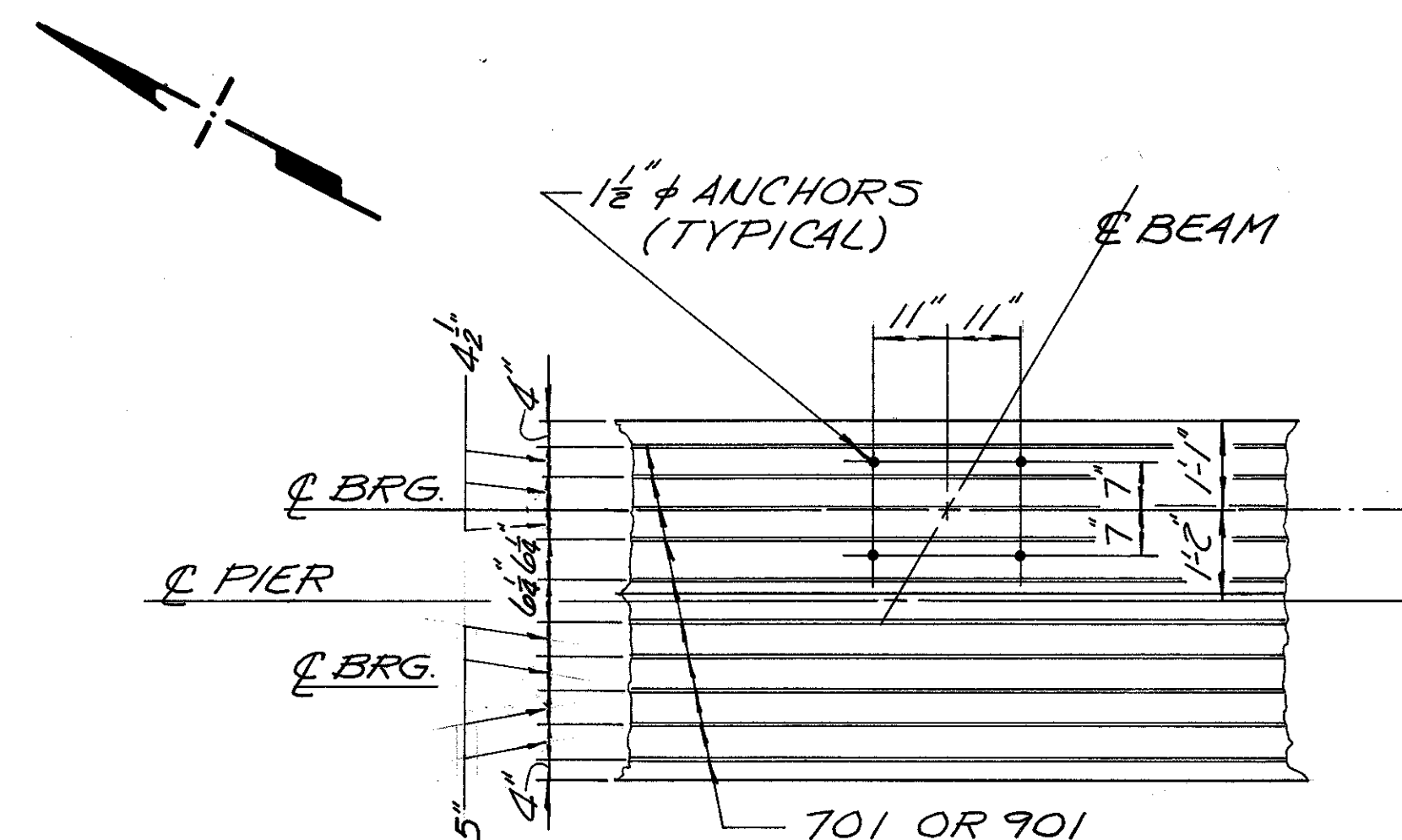
FHWA REG.	STATE	PROJECT
5	OHIO	

293
455

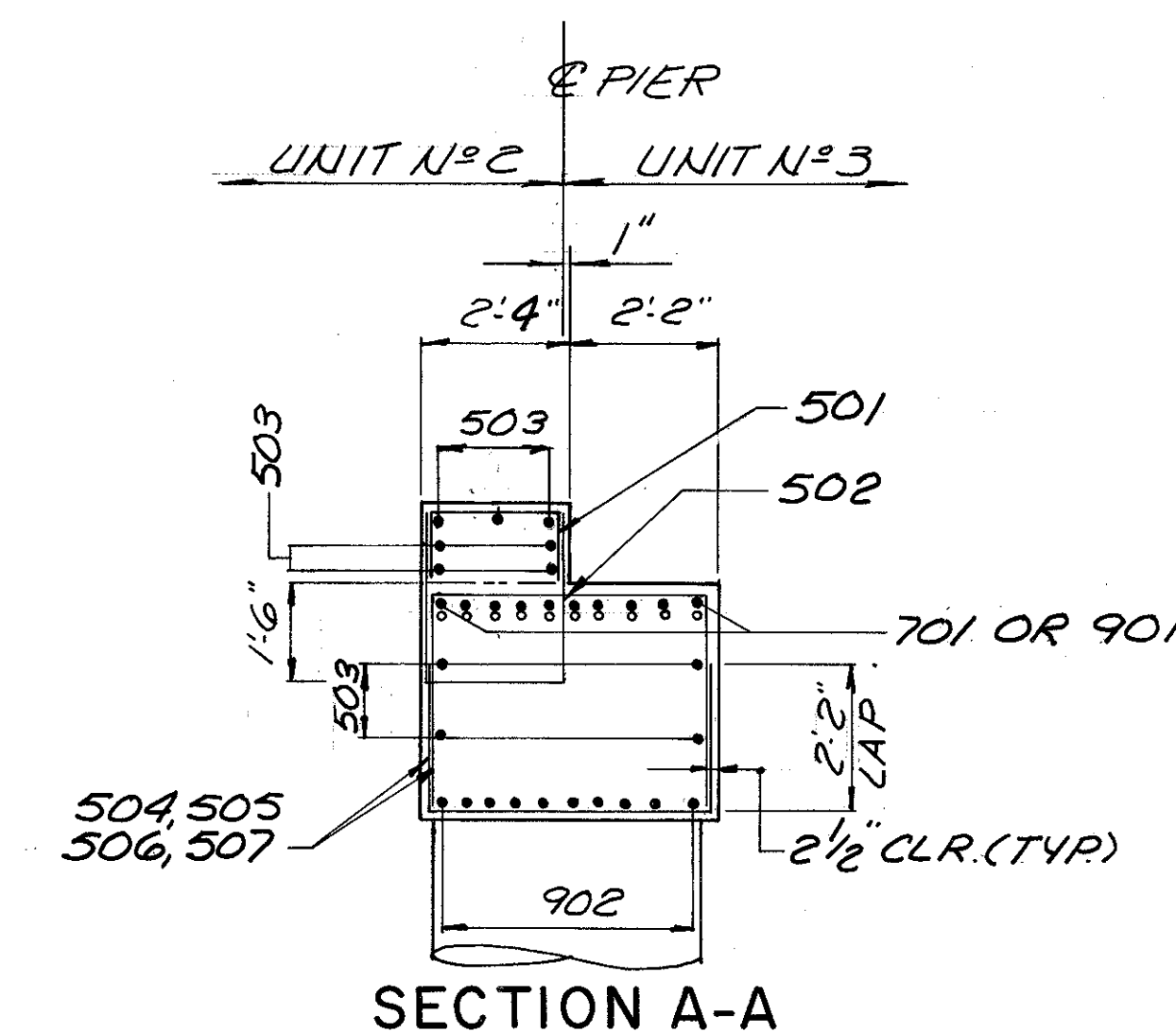
AKRON INNERBELT
SUM - 59 - 0.00

NOTES

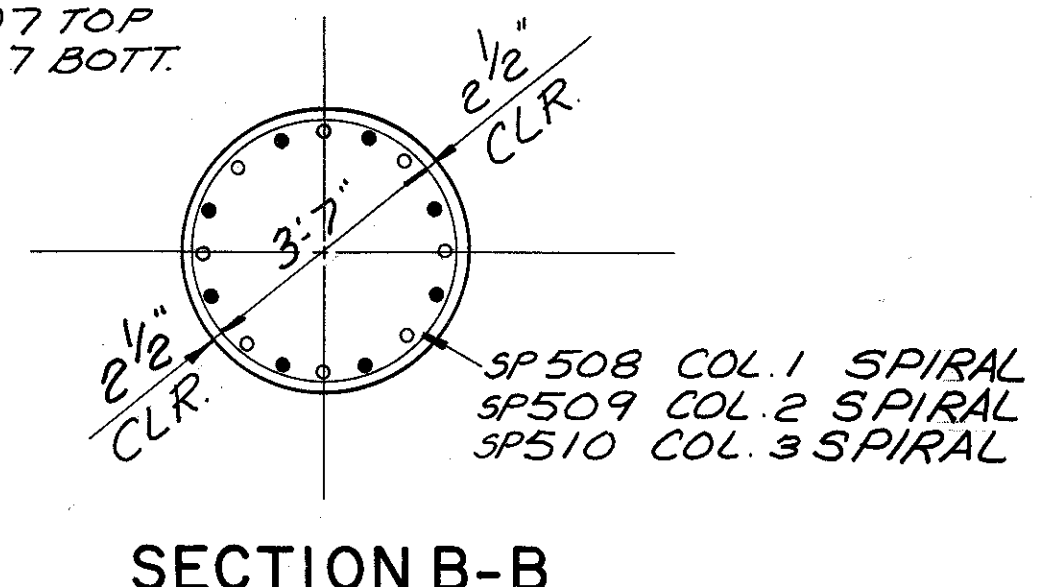
1. THE PREFIX "7P" SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN PIER P-7 UNLESS SHOWN OTHERWISE.
2. BRIDGE SEAT REINFORCING: SPECIAL CARE SHALL BE TAKEN IN PLACING REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT SO AS TO AVOID INTERFERENCE WITH THE DRILLING OF ANCHOR HOLES OR PRE-SETTING OF BEARING ANCHORS.
3. SPLICE FOR #11 REINFORCING BARS SHALL BE MADE WITH APPROVED MECHANICAL CONNECTORS. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
4. * SKEW ANGLE SHOWN IS TO THE LOCAL TANGENT OF CURVED BEAM INTERSECTING THE & BEARING.
5. FOR DETAILS OF UNIT #3 BEARINGS SEE SHEETS 266/455 THRU 268/455.



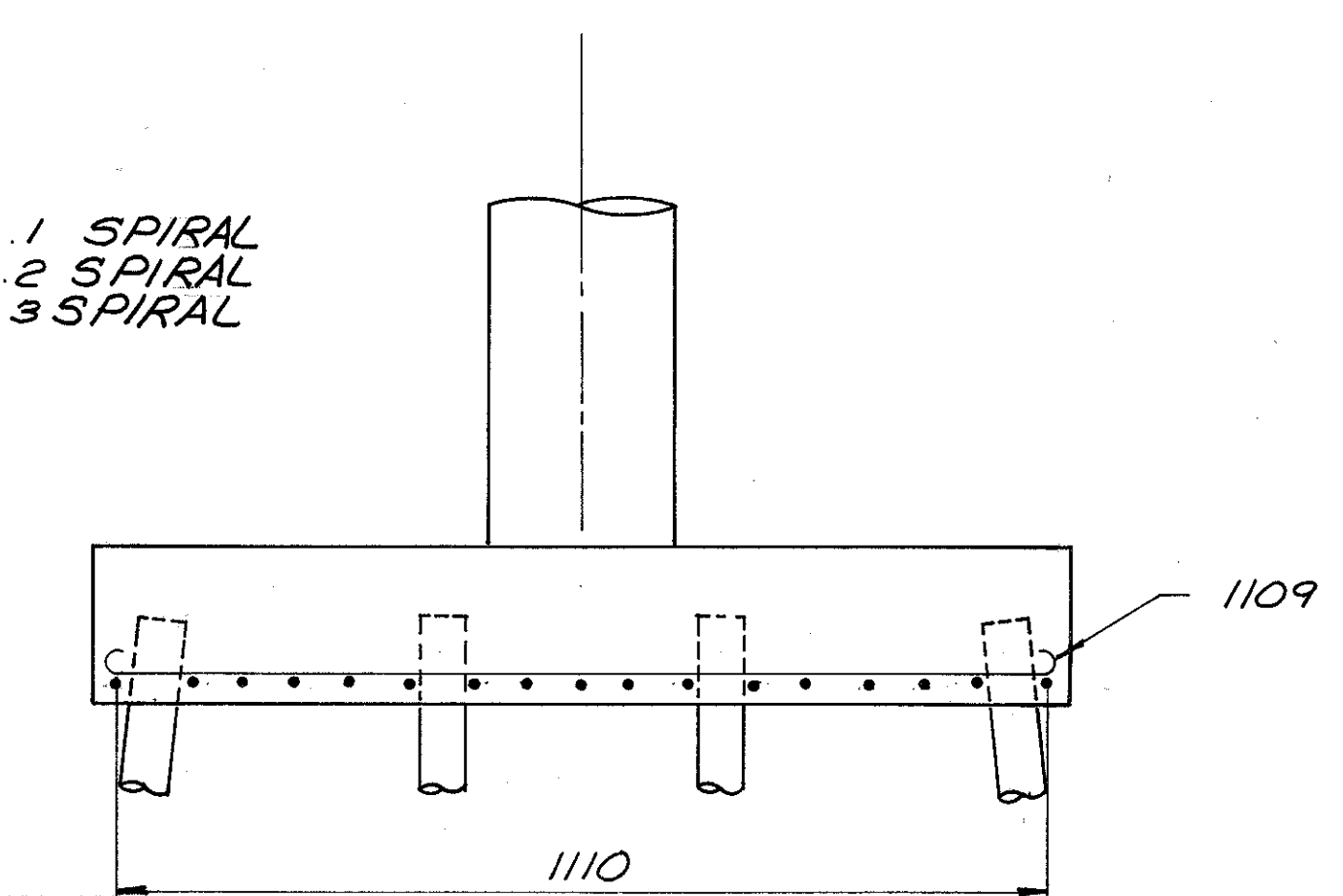
ANCHOR BOLT LOCATION DETAIL



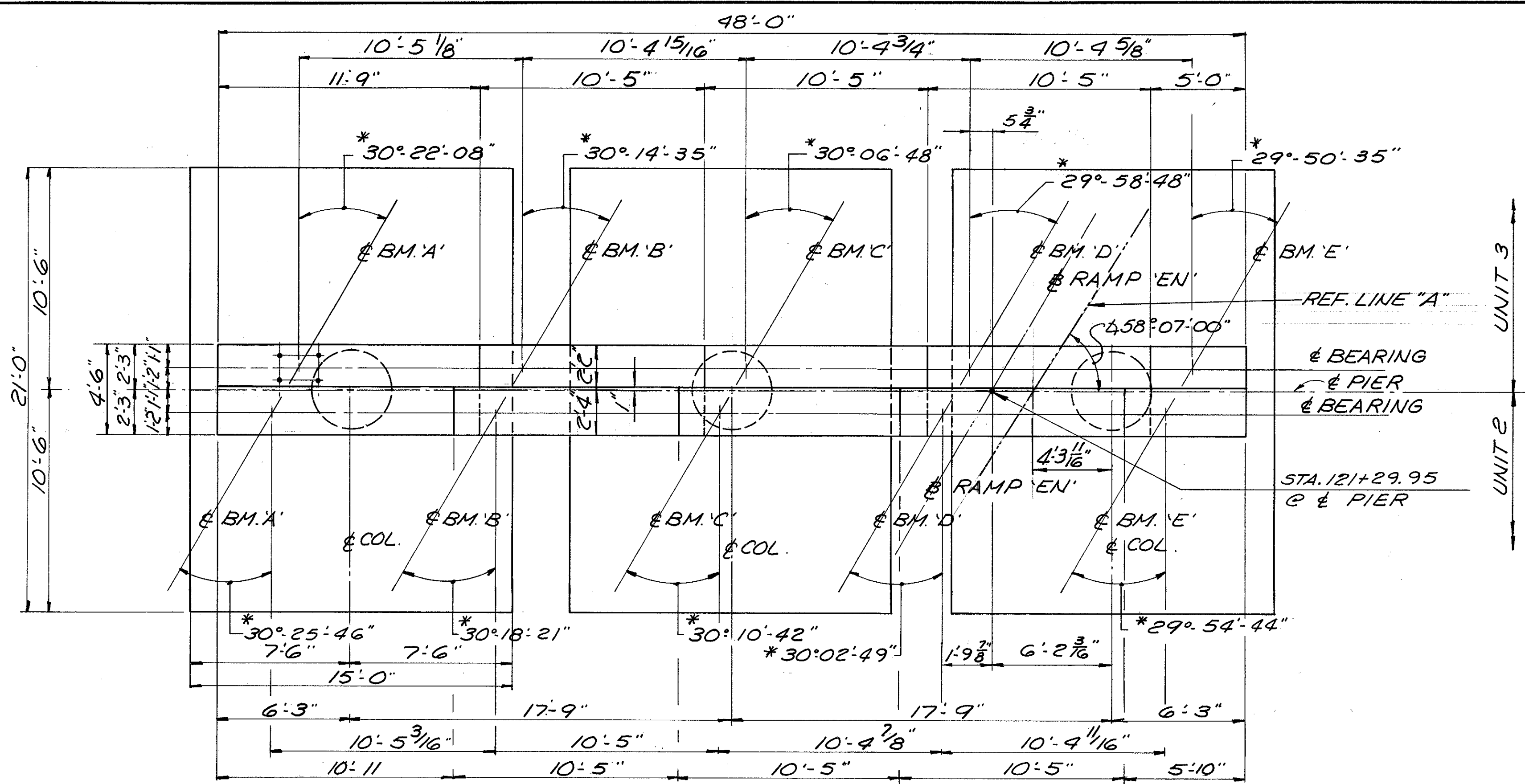
SECTION A-A



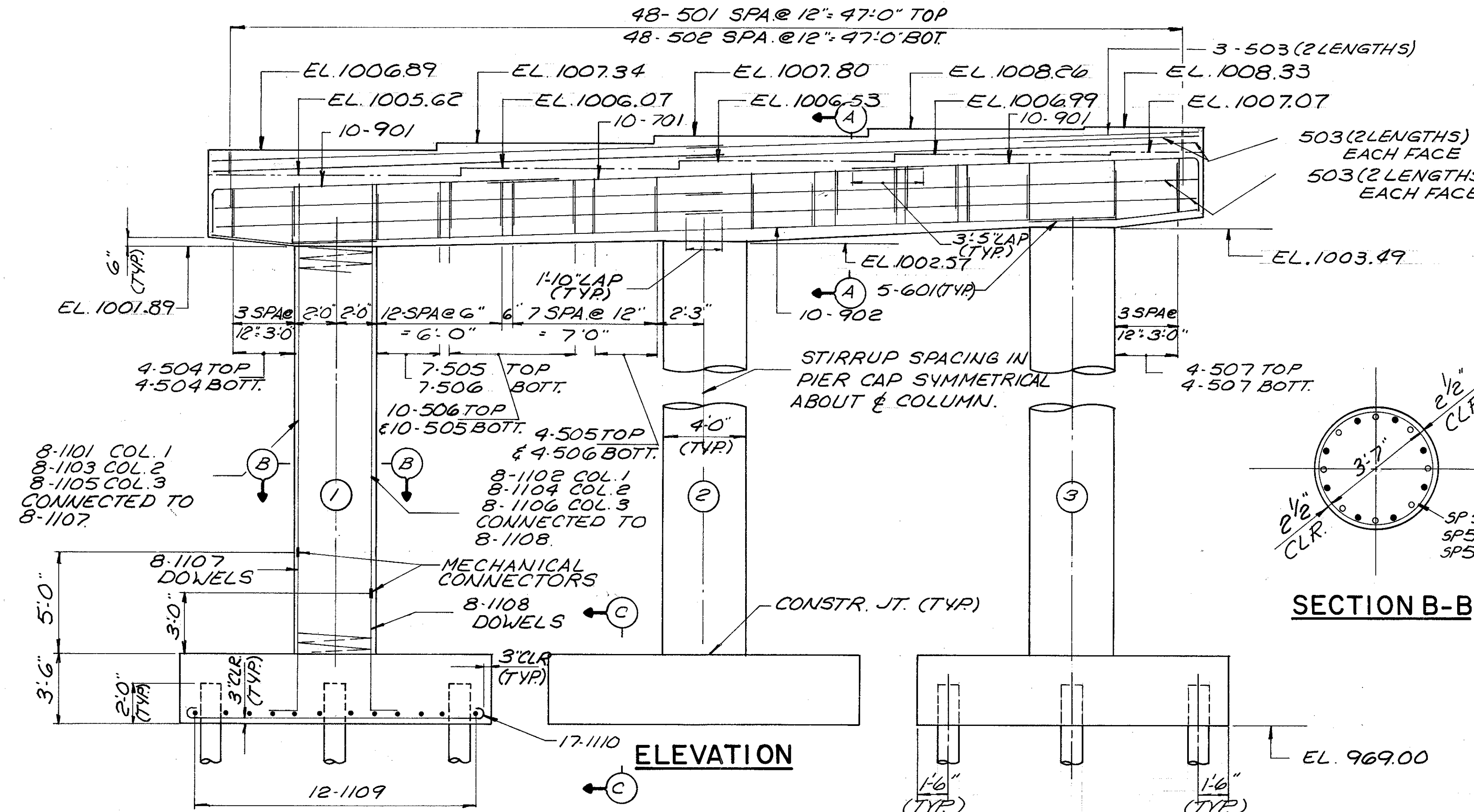
SECTION B-B



SECTION C-C



PLAN - PIER P-7



ELEVATION

DALTON · DALTON · NEWPORT					
CLEVELAND, OHIO			AKRON, OHIO		
PIER P-7 DETAILS				21/45	
AKRON INNERBELT OVER BOWERY STREET, OHIO CANAL, WEST EXPRESSWAY AND RUSSELL AVENUE BR. NO. SUM-59-0000 AKRON OHIO SUMMIT COUNTY STA. 114 + 52.10 TO STA. 129 + 52.60					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
M.S.C.	CDG		J.W.W.	JW	12-20-81

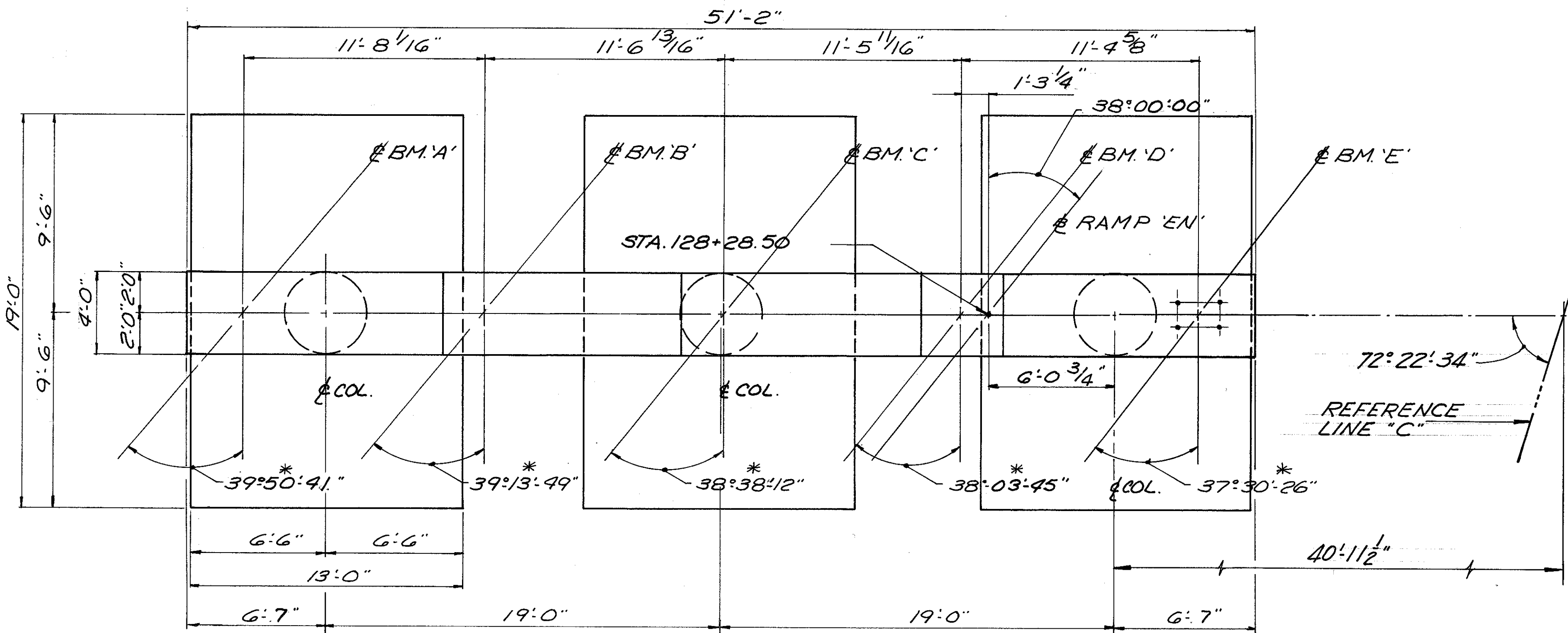
F.H.W.A. REG.	STATE	PROJECT
5	OHIO	

295
455

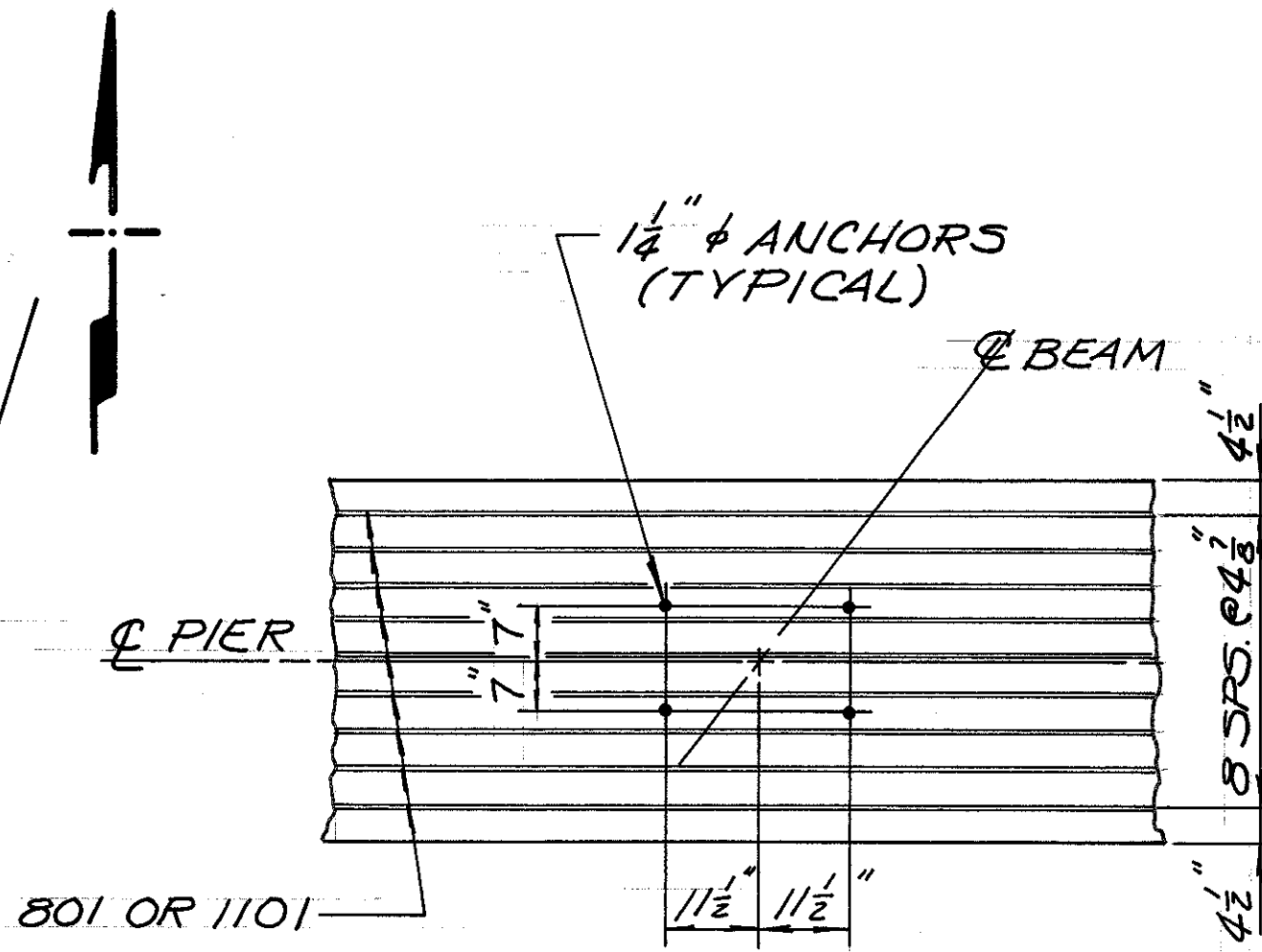
AKRON INNERBELT
SUM - 59 - 0.00

NOTES

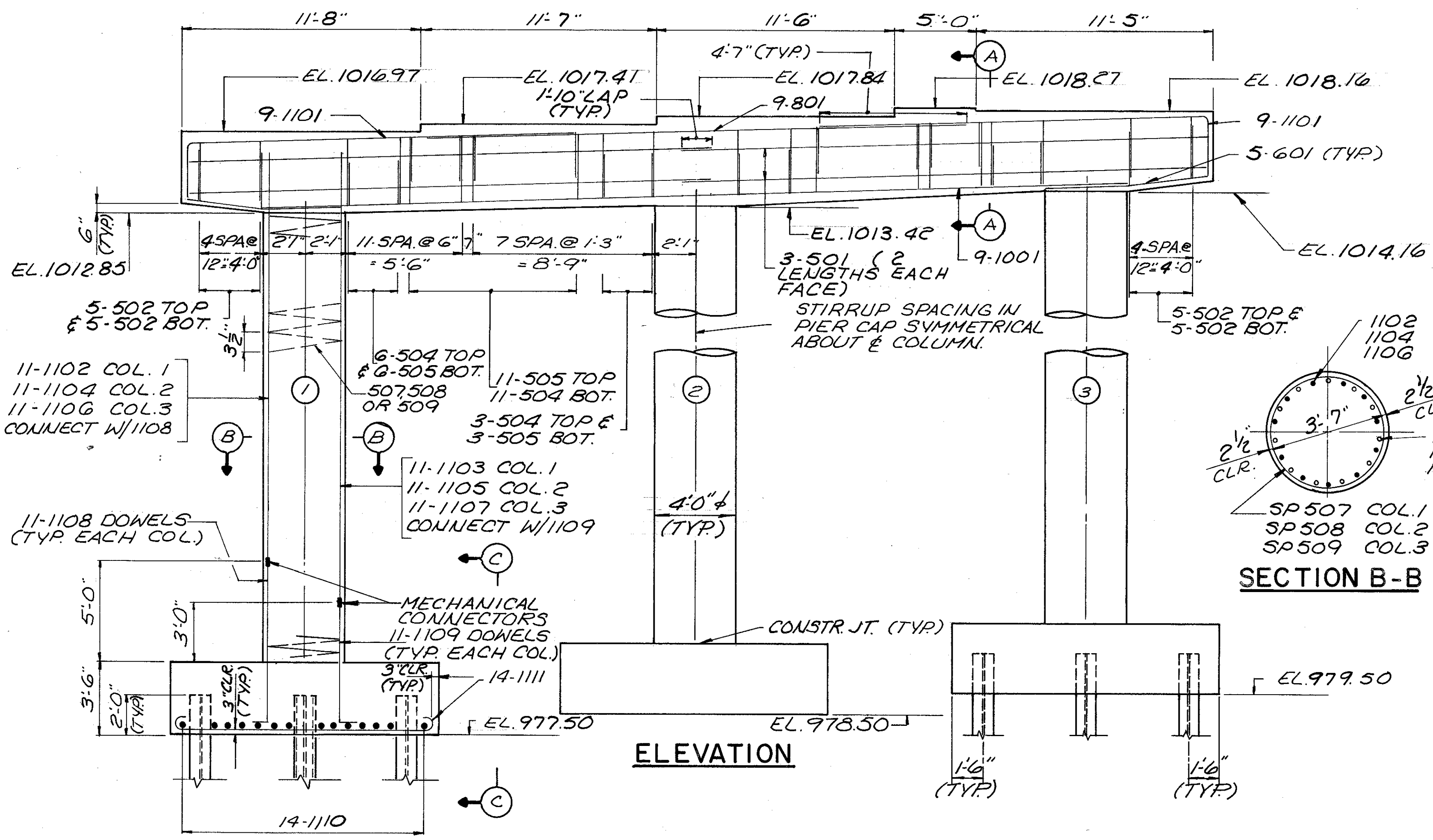
- THE PREFIX 11P SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN PIER P-II UNLESS SHOWN OTHERWISE.
- FOR BEARING DETAILS SEE SHEET 269 THRU 269 455
- FOR ADDITIONAL NOTES SEE NOTES 2 3 & 4 ON SHEET 21/45.



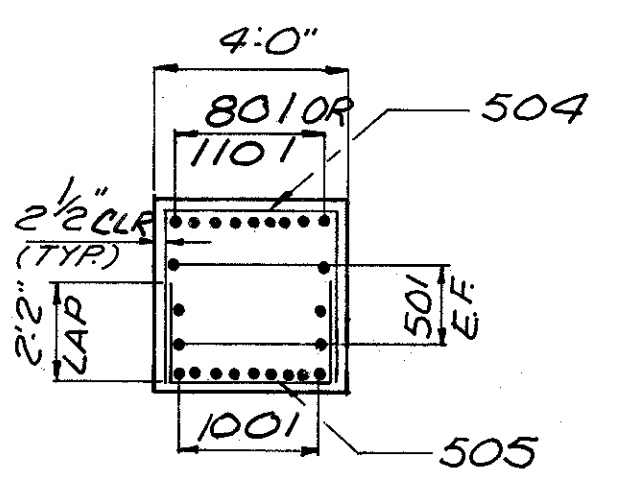
PLAN - PIER P-II



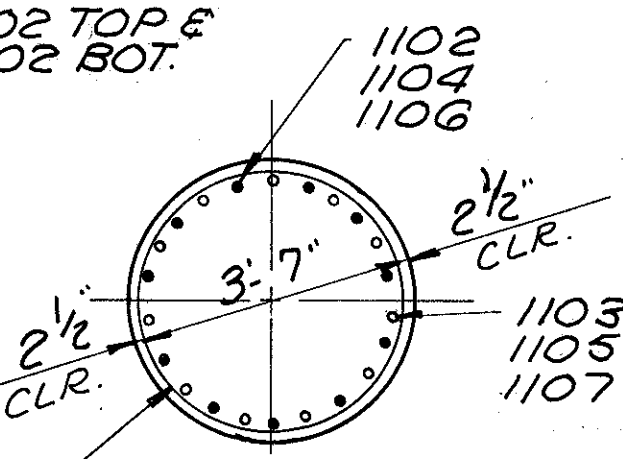
ANCHOR BOLT LOCATION DETAIL



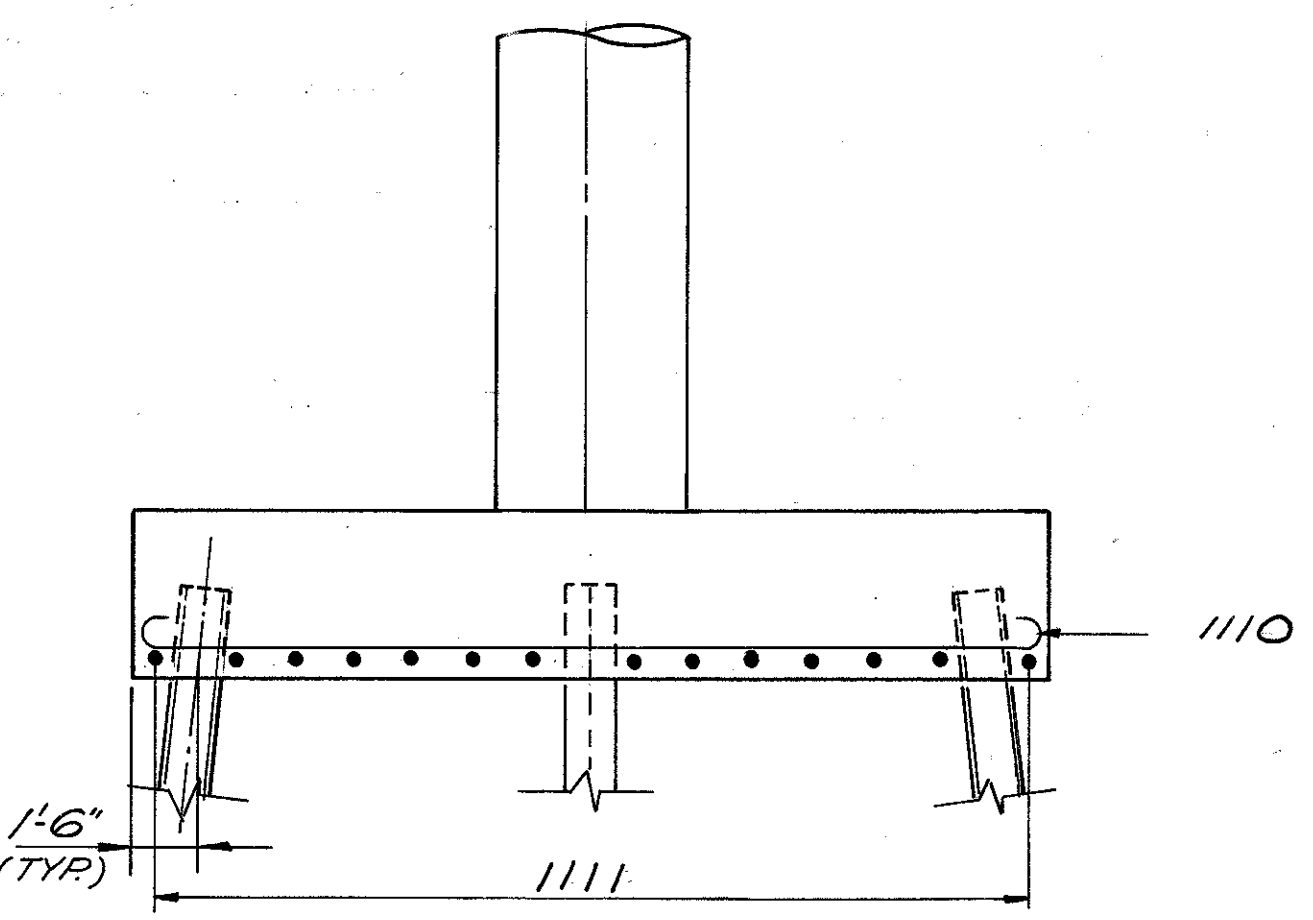
ELEVATION



SECTION A-A



SECTION B-B



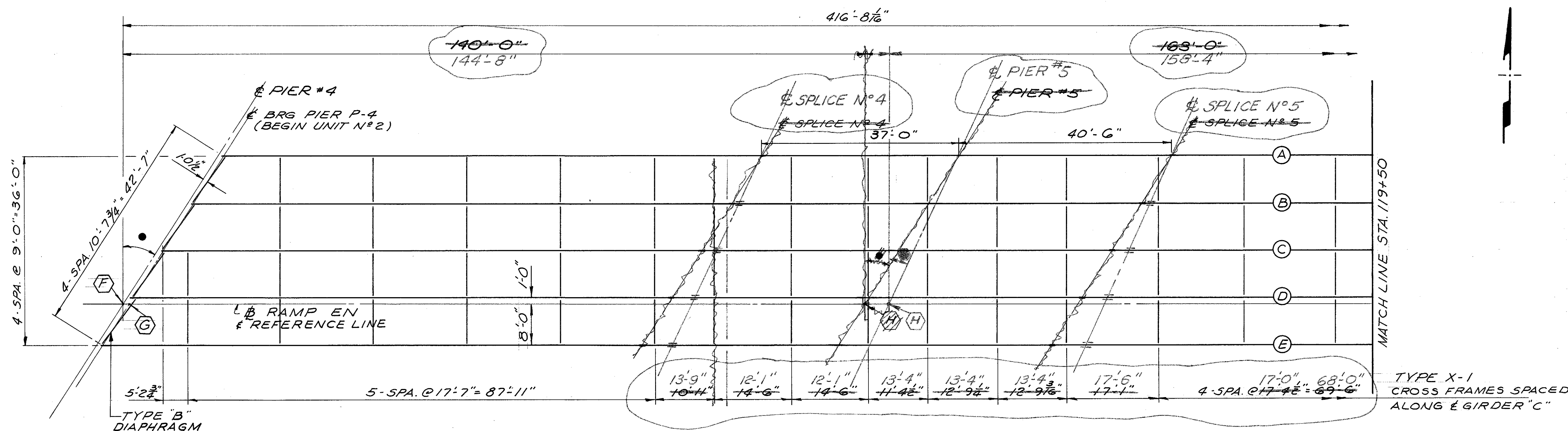
SECTION C-C

DALTON · DALTON · NEWPORT		
CLEVELAND, OHIO	AKRON, OHIO	23/45
PIER P-II DETAILS		
AKRON INNERBELT OVER BOWERY STREET, OHIO CANAL, WEST EXPRESSWAY AND RUSSELL AVENUE		
BR. NO. SUM-59-0000		
AKRON OHIO SUMMIT COUNTY		
STA. 114 + 52.10 TO STA. 129 + 52.60		
DESIGNED M.S.C.	DRAWN CDG	CHECKED JWW
TRACED JWW	REVIEWED JWW	DATE 12-20-82

AKRON INNERBELT
SUM-59-0.00

NOTES

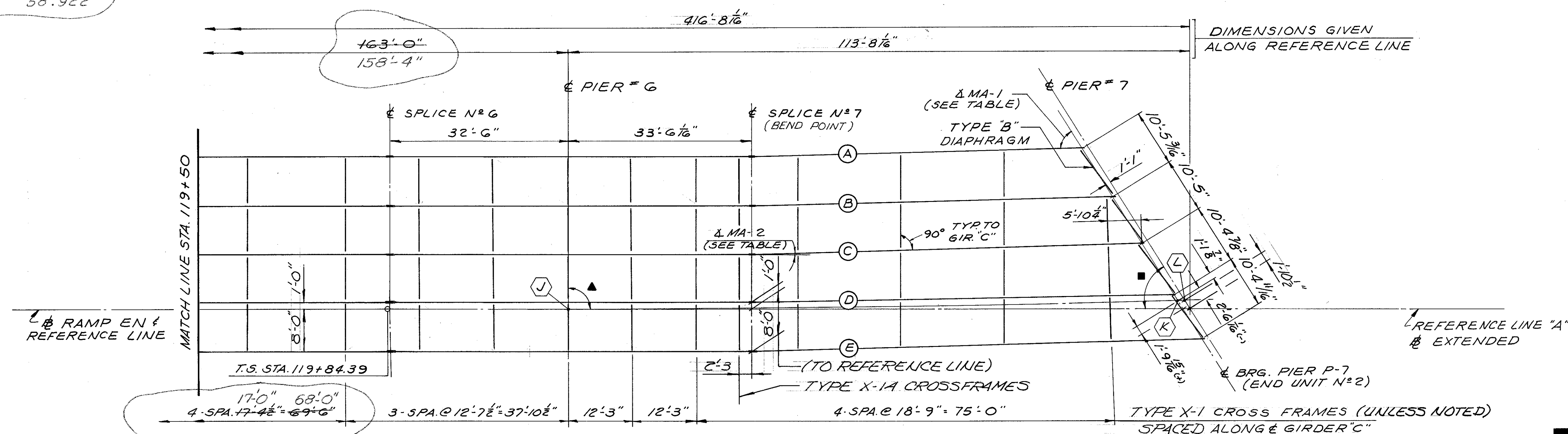
- FOR ADDITIONAL NOTES
SEE SHEET 24/45.
- FOR GIRDER ELEVATION
SEE SHEET 27/45.



- F STA. 117+14.255
- G STA. 117+15.487
- H STA. 118+54.255

- 32°17'25" (TYP)
- 24°57'04"

FRAMING PLAN-UNIT 2



- J STA. 120+17.255
- K STA. 121+28.702
- L STA. 121+29.953

TABLE OF MISCELLANEOUS ANGLES		
LOCATION	MA-1	MA-2**
GIRDER A	59°07'-31.7"	1°00'-26.9"
GIRDER B	59°09'-54.2"	1°02'-49.4"
GIRDER C	59°12'-27.8"	1°05'-22.9"
GIRDER D	59°15'-10.9"	1°08'-06.1"
GIRDER E	59°18'-02.3"	1°10'-57.5"

(**) DENOTES SPLICE N° 7
BEND ANGLE

- ▲ 90°05'46" @ PIER P-6 TO REF. LINE (P-6 TO GIRDERS)
- 58°07'00" @ PIER P-7 & BRG. END UNIT 2 TO REF. LINE

FRAMING PLAN

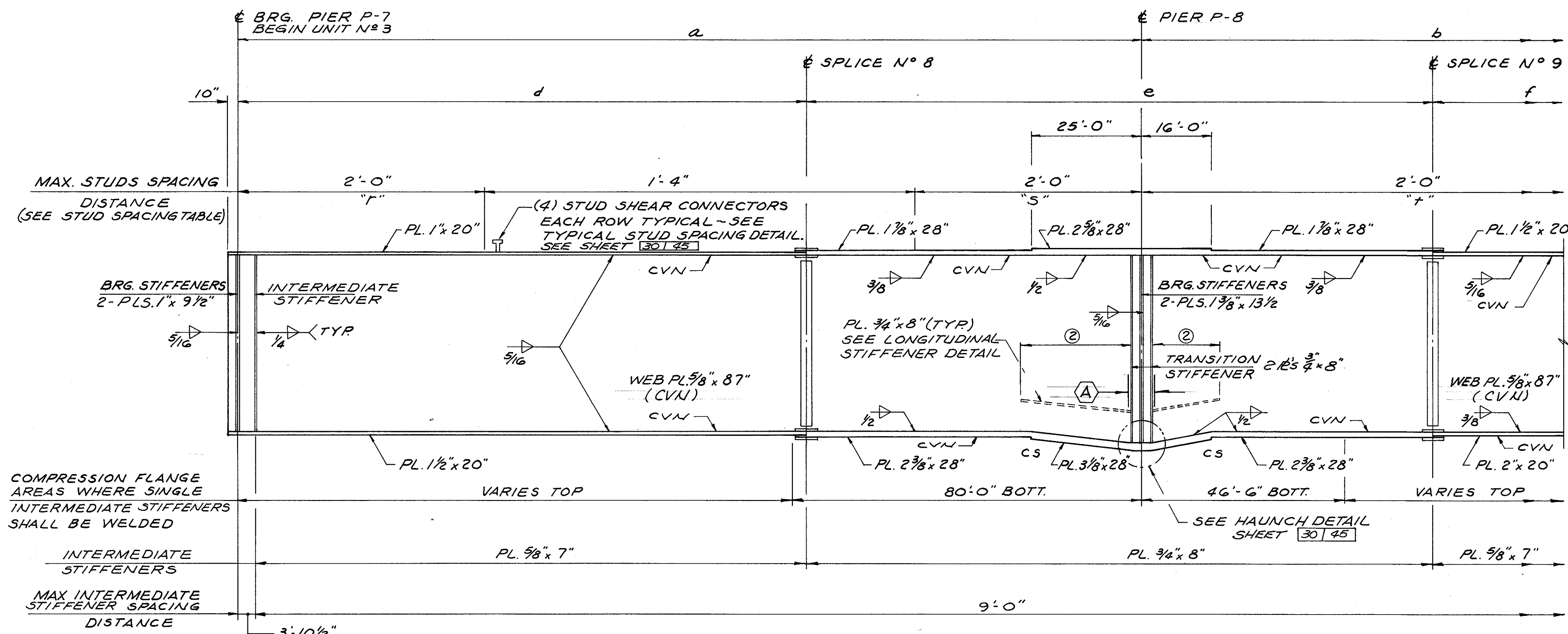
AKRON INNERBELT OVER BOWERY STREET,
OHIO CANAL, WEST EXPRESSWAY
AND RUSSELL AVENUE
BR. NO. SUM-59-0000
AKRON OHIO SUMMIT COUNTY
STA. 114+52.10 TO STA. 129+52.60

AKRON INNERBELT
SUM- 59- 0.00

TABLE OF STUD SPACING LIMIT DISTANCES						
DIMENSION	"f"	"s"	"t"	"u"	"v"	"w"
A	56'-0"	52'-0"	118'-0"	51'-0"	72'-0"	55'-0"
B	60'-0"	58'-0"	118'-0"	55'-6"	66'-0"	56'-0"
C	64'-0"	64'-0"	118'-0"	59'-0"	60'-0"	57'-0"
D	69'-0"	71'-0"	117'-0"	63'-0"	55'-0"	58'-0"
E	72'-0"	77'-0"	117'-0"	66'-0"	50'-0"	59'-6"

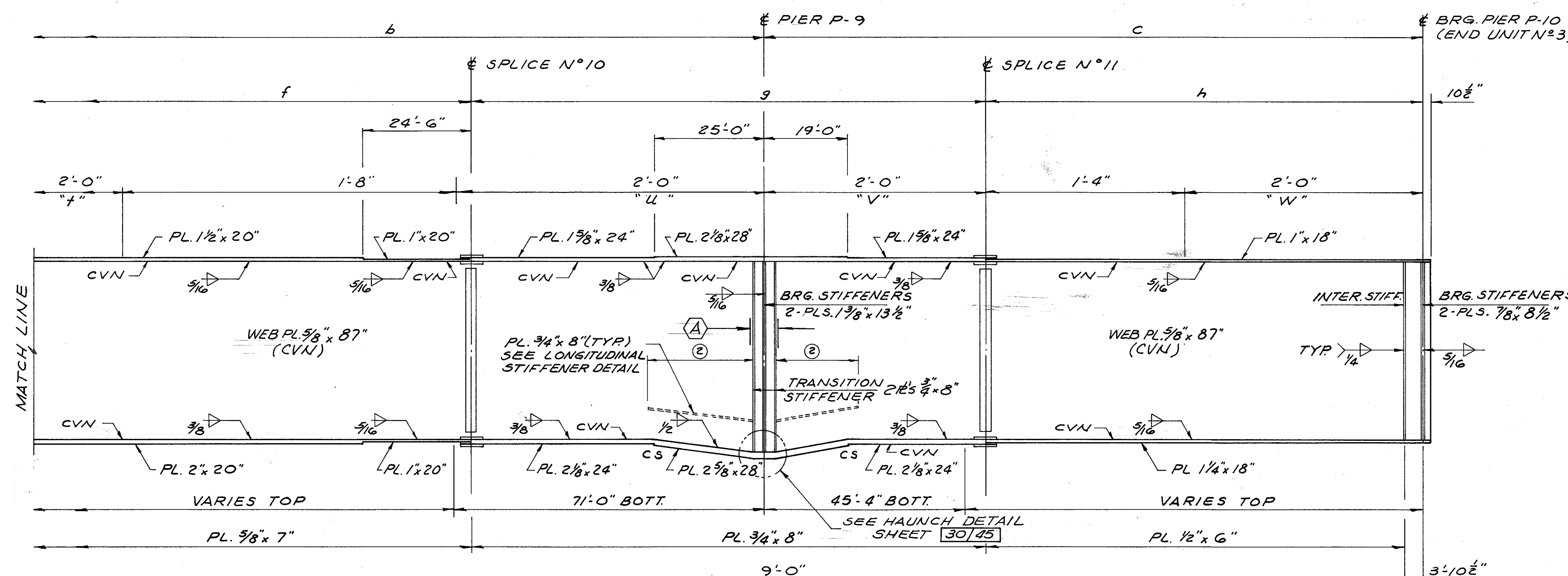
NOTES

- FOR DIMENSIONS "a" THRU "h" SEE TABLE OF GIRDER DIMENSIONS FOR UNIT N°3, HAUNCH DETAIL, LONGITUDINAL STIFFENER DETAIL, TYPICAL STUD SPACING DETAIL AND SPLICE DETAILS SEE SHEET 30/45.
- LONGITUDINAL STIFFENERS SHALL BE PROVIDED FOR VARIABLE DEPTH GIRDERS AT PIERS P-8 & P-9 AS SHOWN ON THE PLANS. LONGITUDINAL STIFFENERS SHALL EXTEND FROM THE TRANSITION STIFFENER AT A PIER TO THE FIRST INTERMEDIATE STIFFENER BEYOND THE VARIABLE DEPTH ZONE.
- C.S. INDICATES BUTT WELD SUBJECT TO COMPRESSIVE STRESS ONLY.
- FOR ADDITIONAL FRAMING NOTES SEE SHEET 24/45.
- ALL FLANGE AND BUTT WELDS SHALL BE COMPLETE PENETRATION BUTT WELDS. THE WELD REINFORCEMENTS NEED NOT BE GROUND FLUSH.
- GIRDERS IN UNIT N°3 ARE TO BE BUILT CURVED, PARALLEL TO THE BASELINE, SEE FRAMING PLAN, SHEET 26/45.



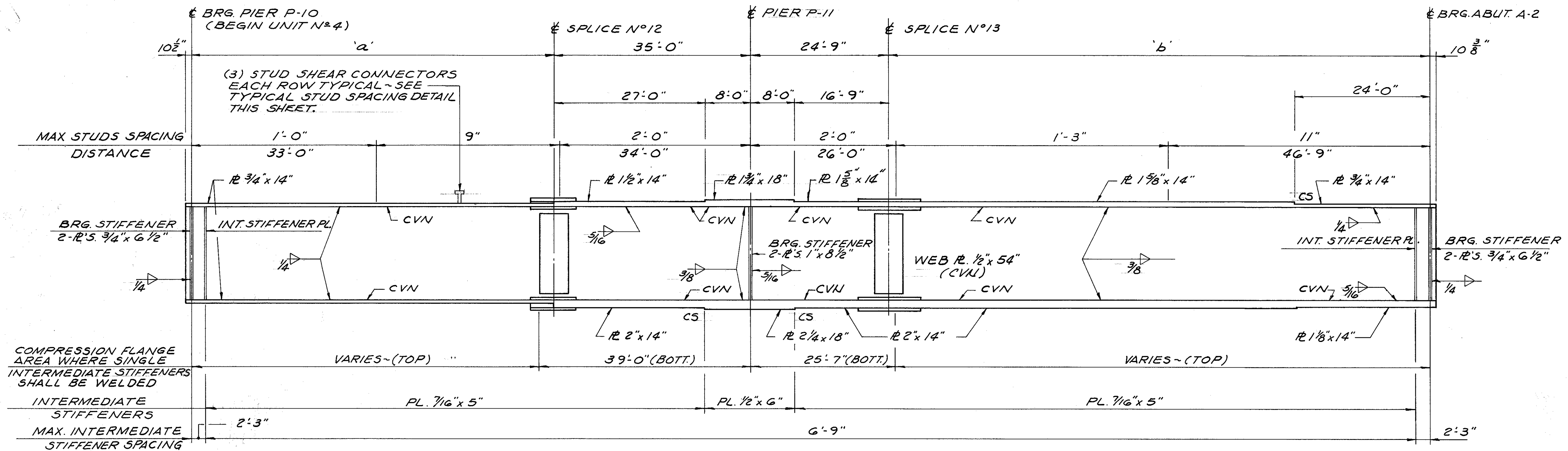
(A) DENOTES: WEB PLATE 5/8" x 93" x 3'-0"
(CVN) WORK WITH HAUNCH
DETAIL ~ SEE SHEET 30/45.

GIRDER ELEVATION UNIT-3



GIRDER ELEVATION UNIT-3

AKRON INNERBELT
SUM - 59- 0.00



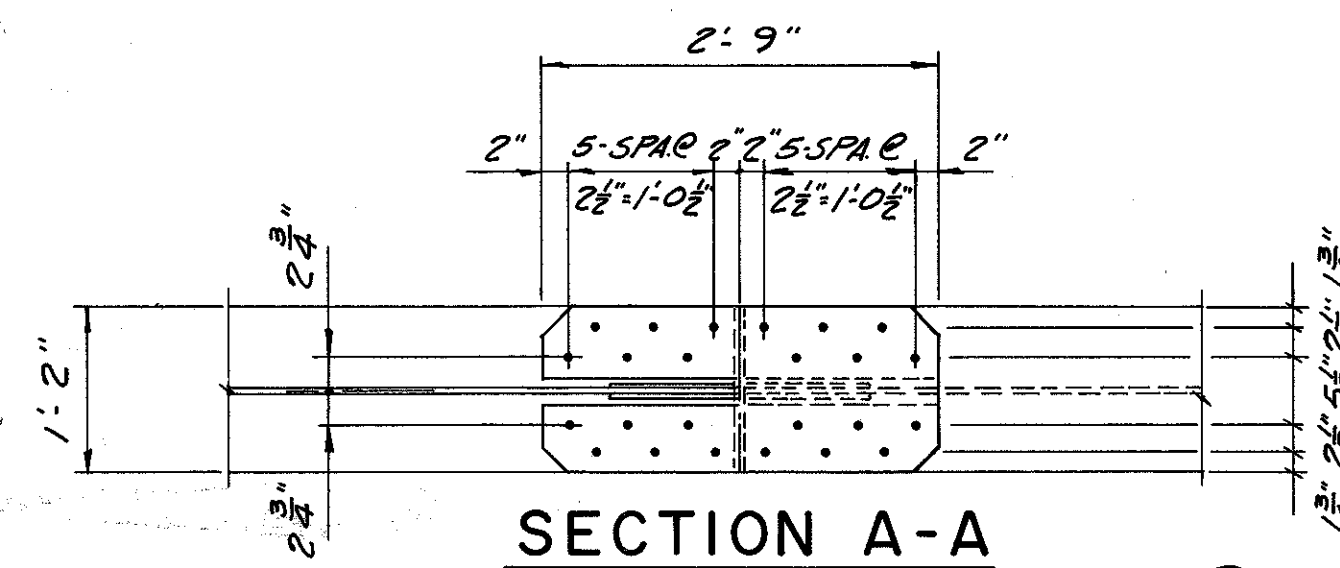
GIRDER ELEVATION

UNIT - 4

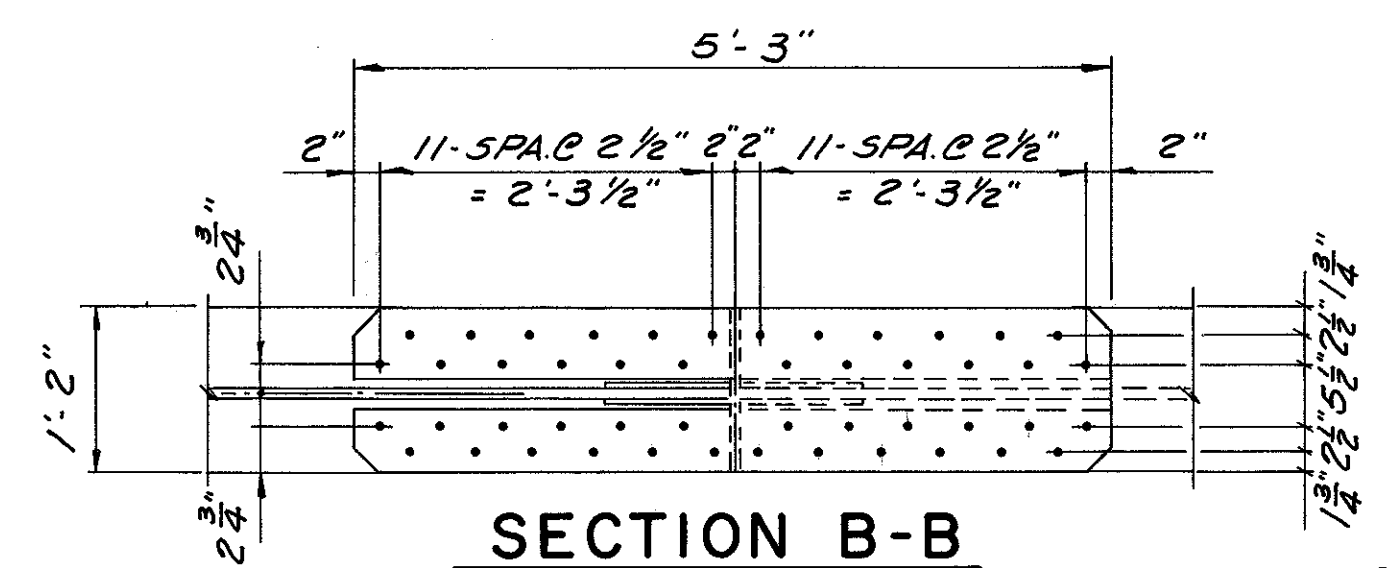
GIRDER	TABLE OF DISTANCES	
	DIMENSION	
A	58'-2 7/8"	97'-10 1/16"
B	60'-0 5/16"	97'-5 3/4"
C	61'-9 1/16"	97'-1 3/8"
D	63'-6 3/16"	96'-9 1/16"
E	65'-3 7/8"	96'-5 7/8"

NOTES

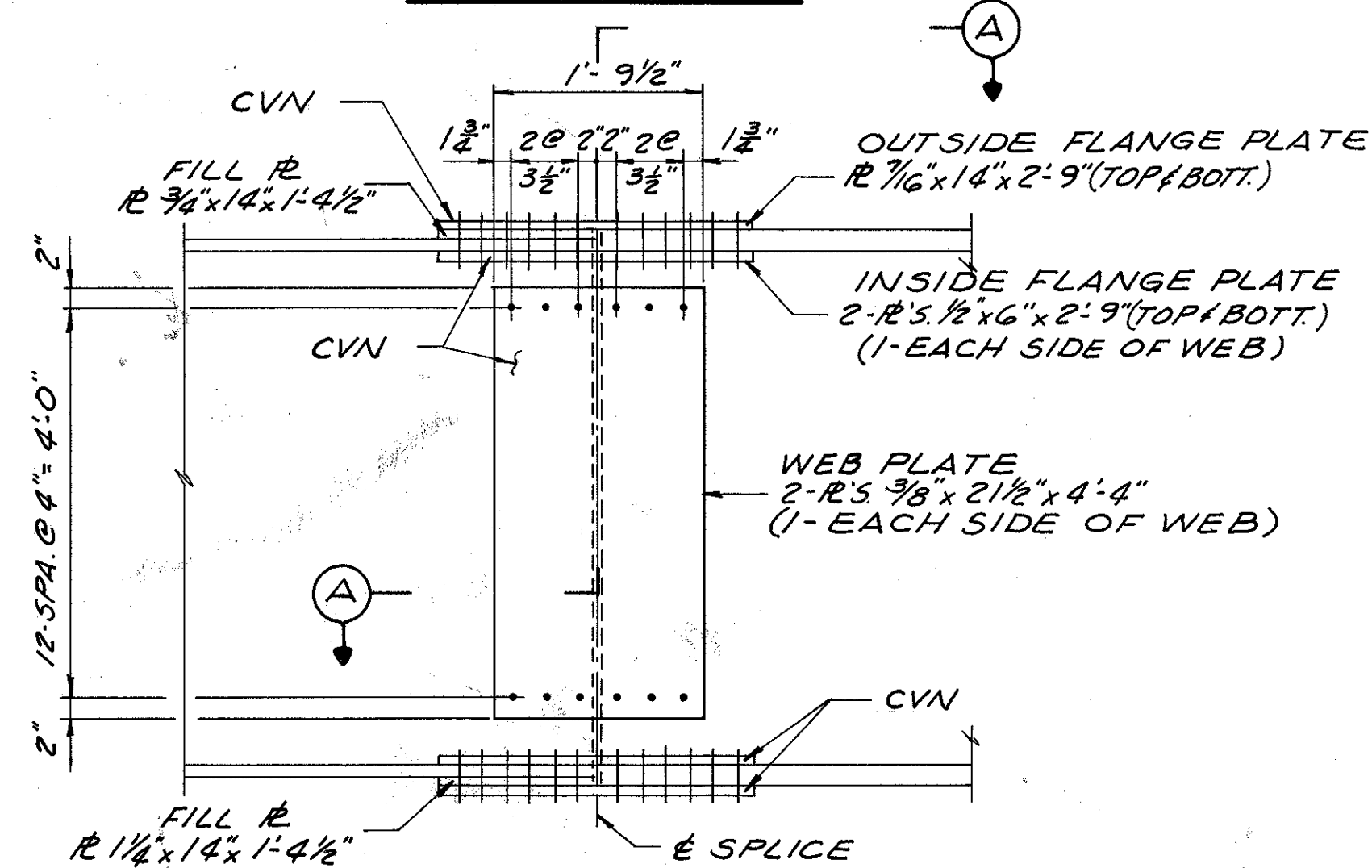
- GIRDERS IN UNIT N° 4 ARE TO BE BUILT CURVED, PARALLEL TO THE BASELINE, SEE FRAMING PLAN SHEET 24/45
- SEE NOTES ③ AND ⑤ ON SHEET 28/45
- FOR ADDITIONAL FRAMING NOTES SEE SHEET 24/45



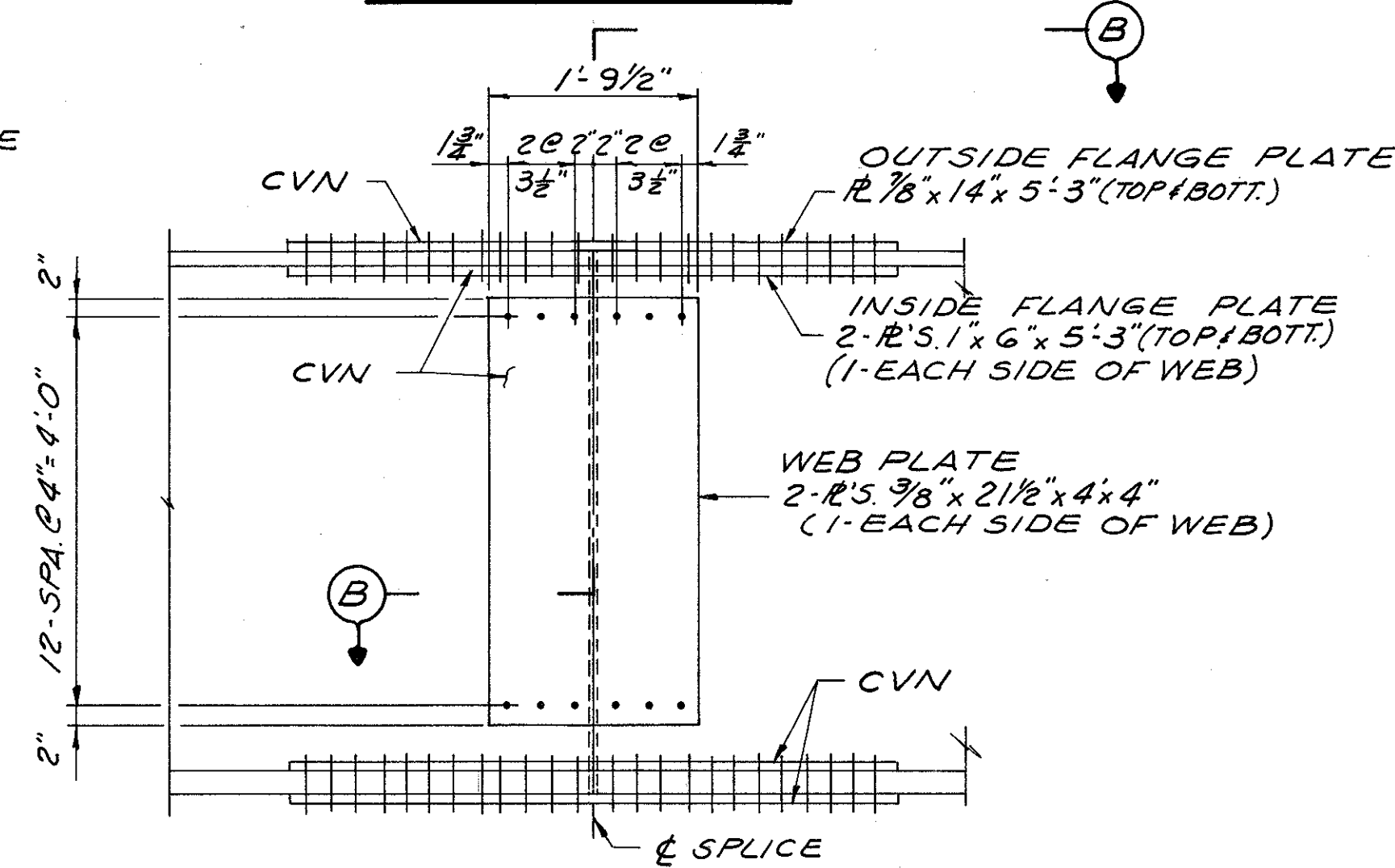
SECTION A-A



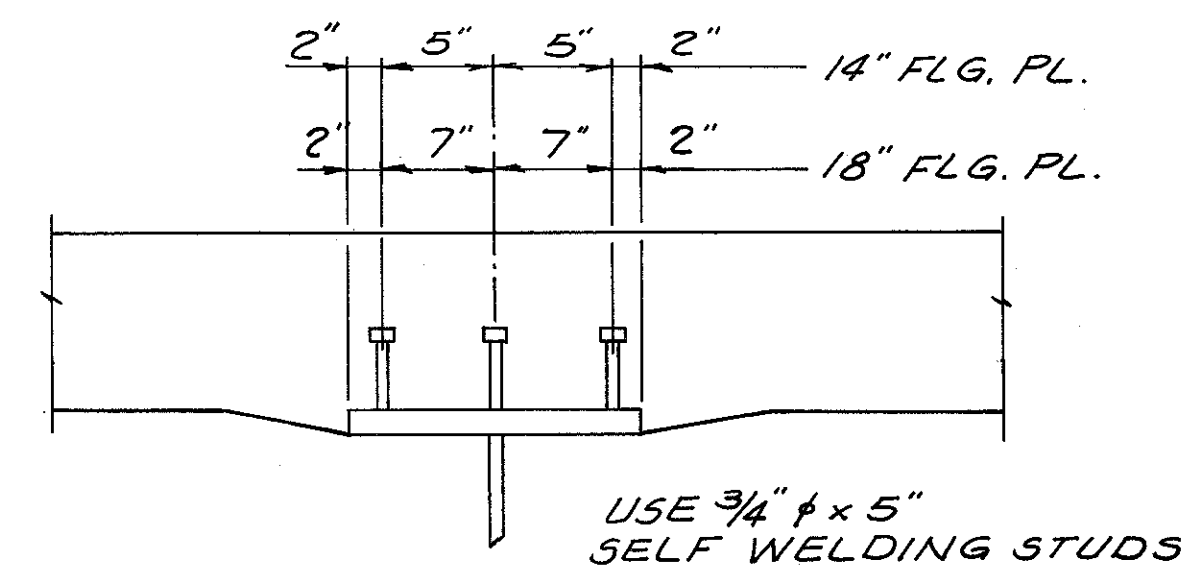
SECTION B-B



SPlice DETAIL FOR SPlice N° 12



SPlice DETAIL FOR SPlice N° 13

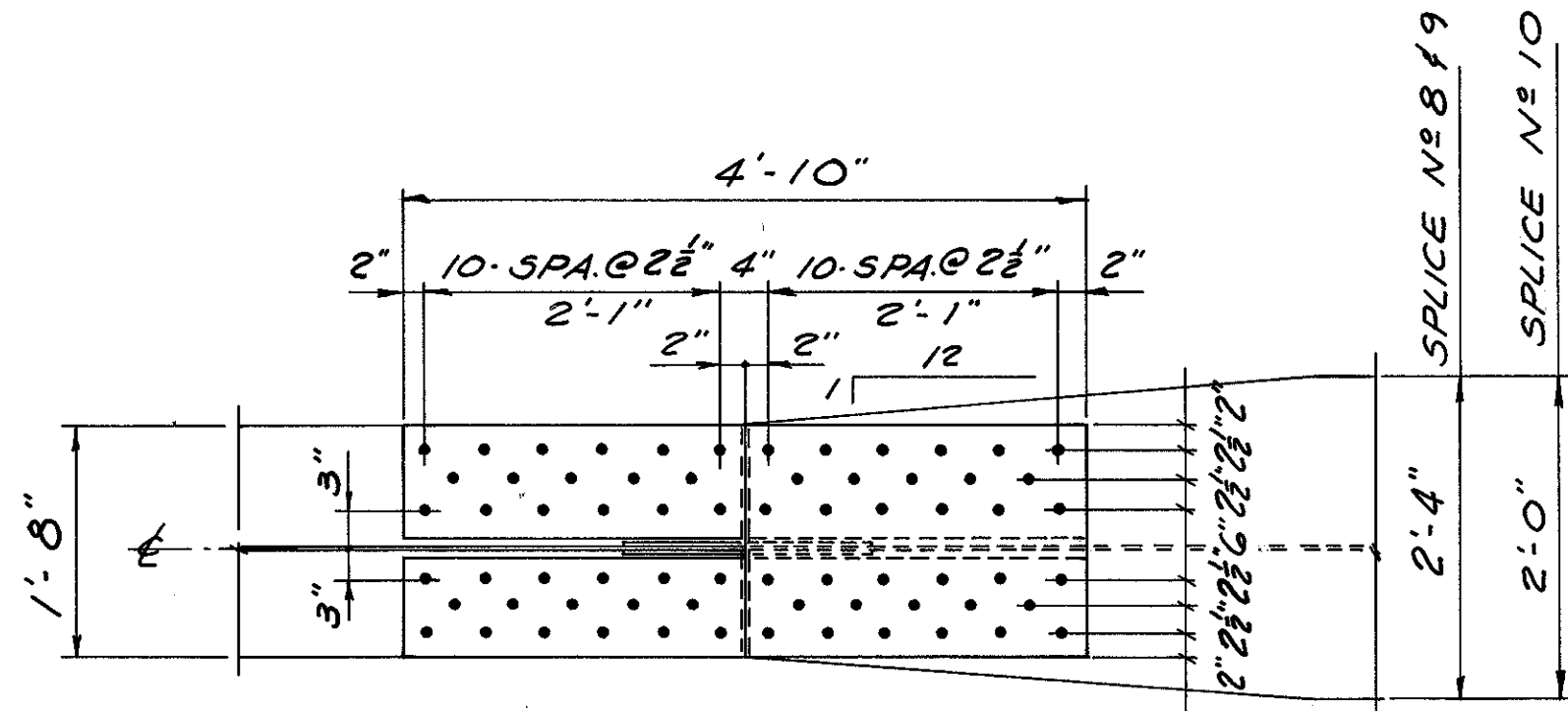


TYPICAL STUD SPACING (UNIT N° 4)

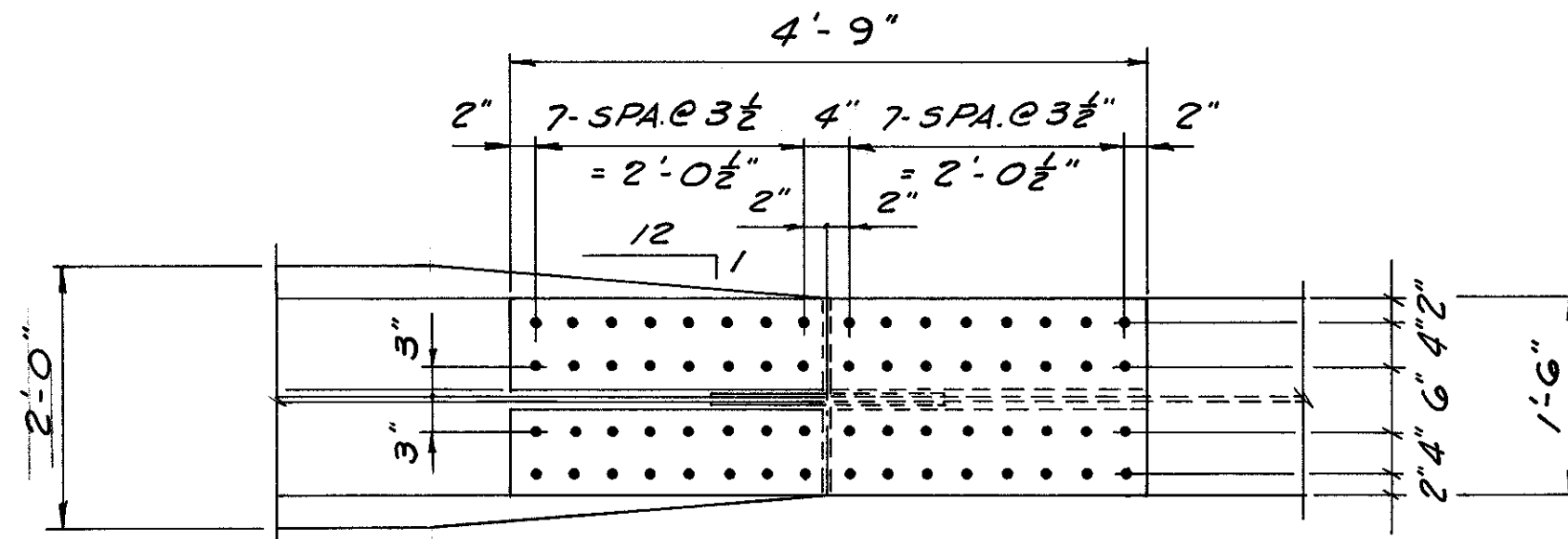
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CLEVELAND, OHIO AKRON, OHIO

AKRON INNERBELT OVER BOWERY STREET,
OHIO CANAL, WEST EXPRESSWAY
AND RUSSELL AVENUE
BR. NO. SUM-59-0000
AKRON OHIO SUMMIT COUNTY
STA. 114+52.10 TO STA. 129+52.60
DESIGNED RER DRAWN F.F. TRACED ALH CHECKED JAP DATE 12-20-82 REVISED

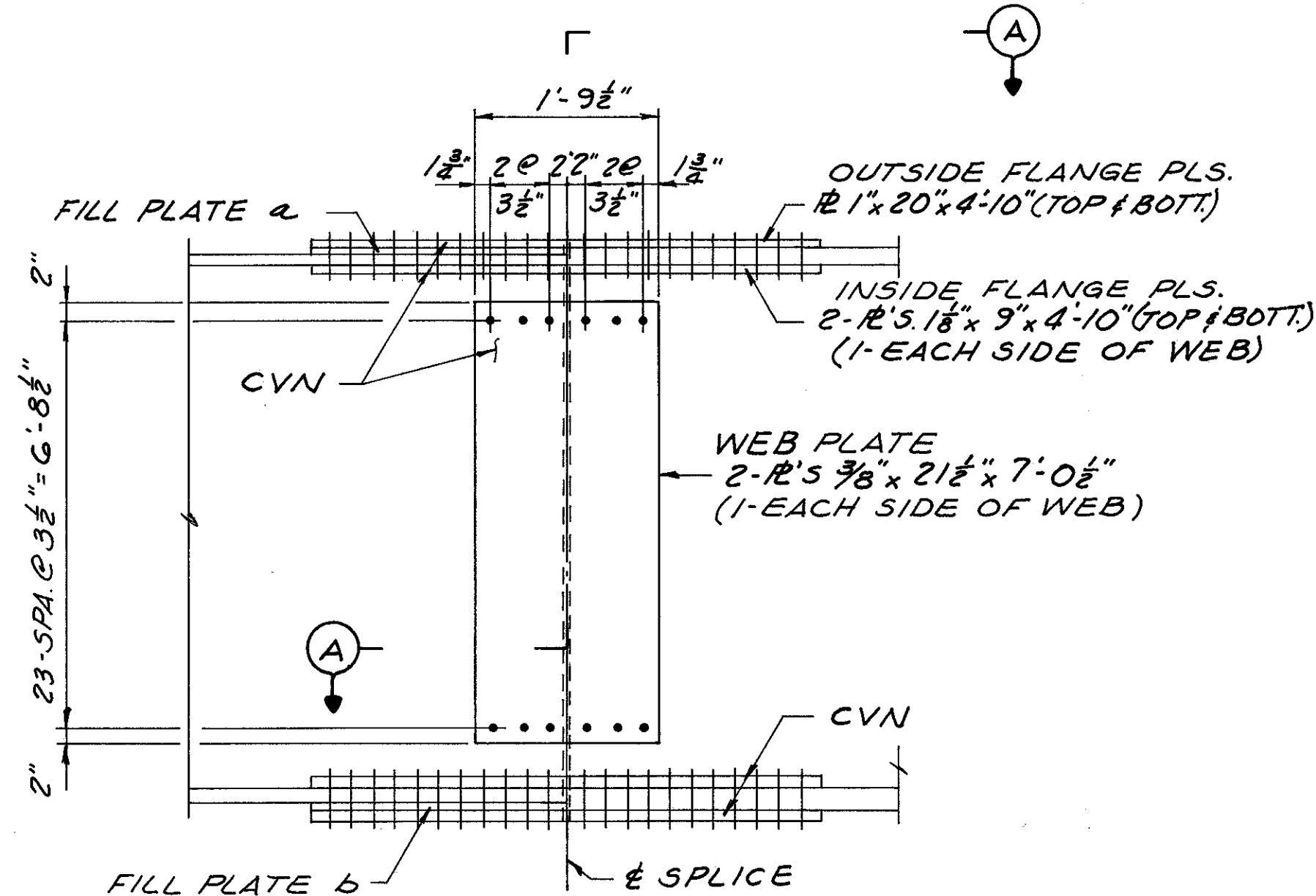
AKRON INNERBELT
SUM - 59 - 0.00



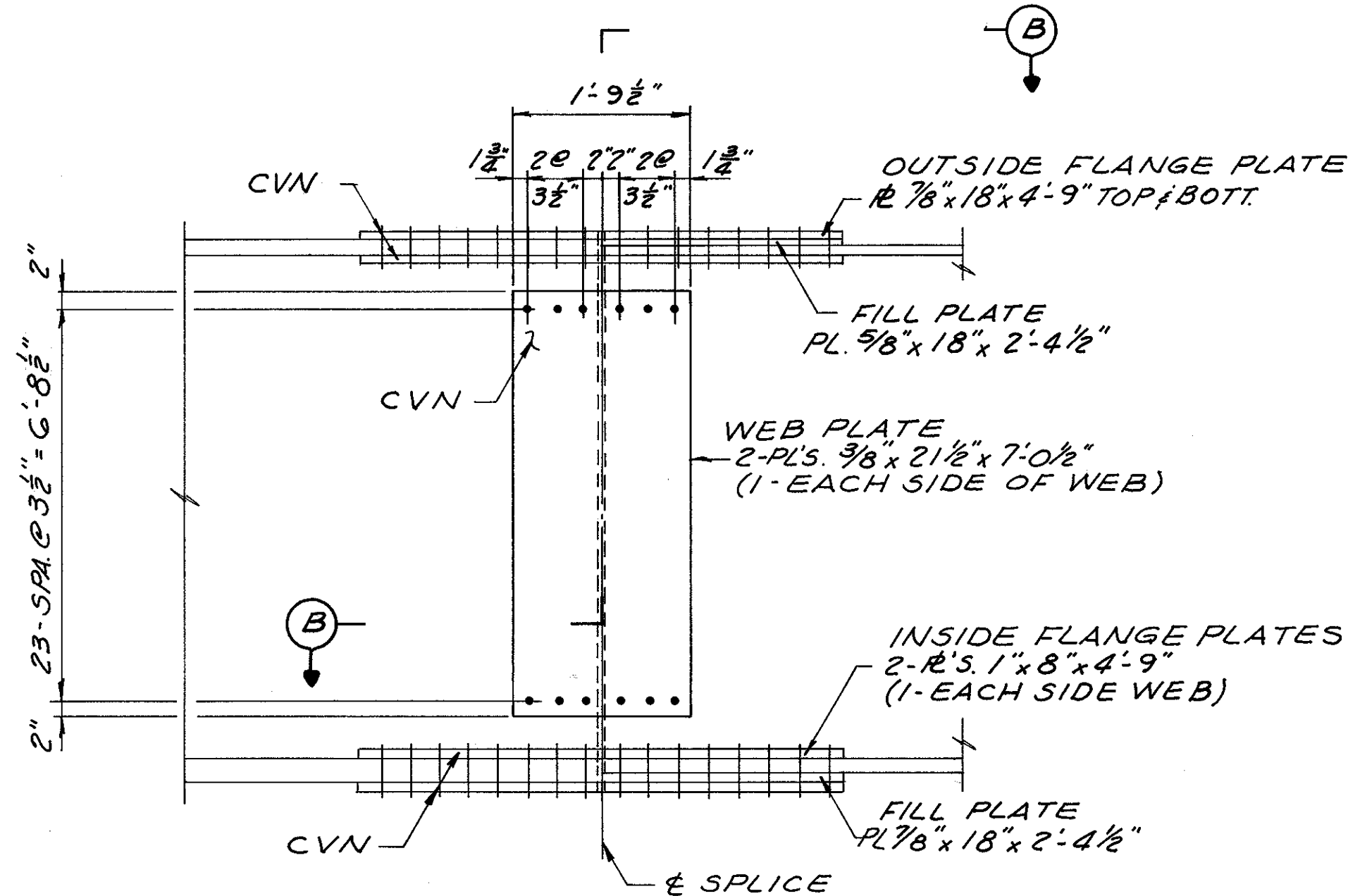
SECTION A-A



SECTION B-B

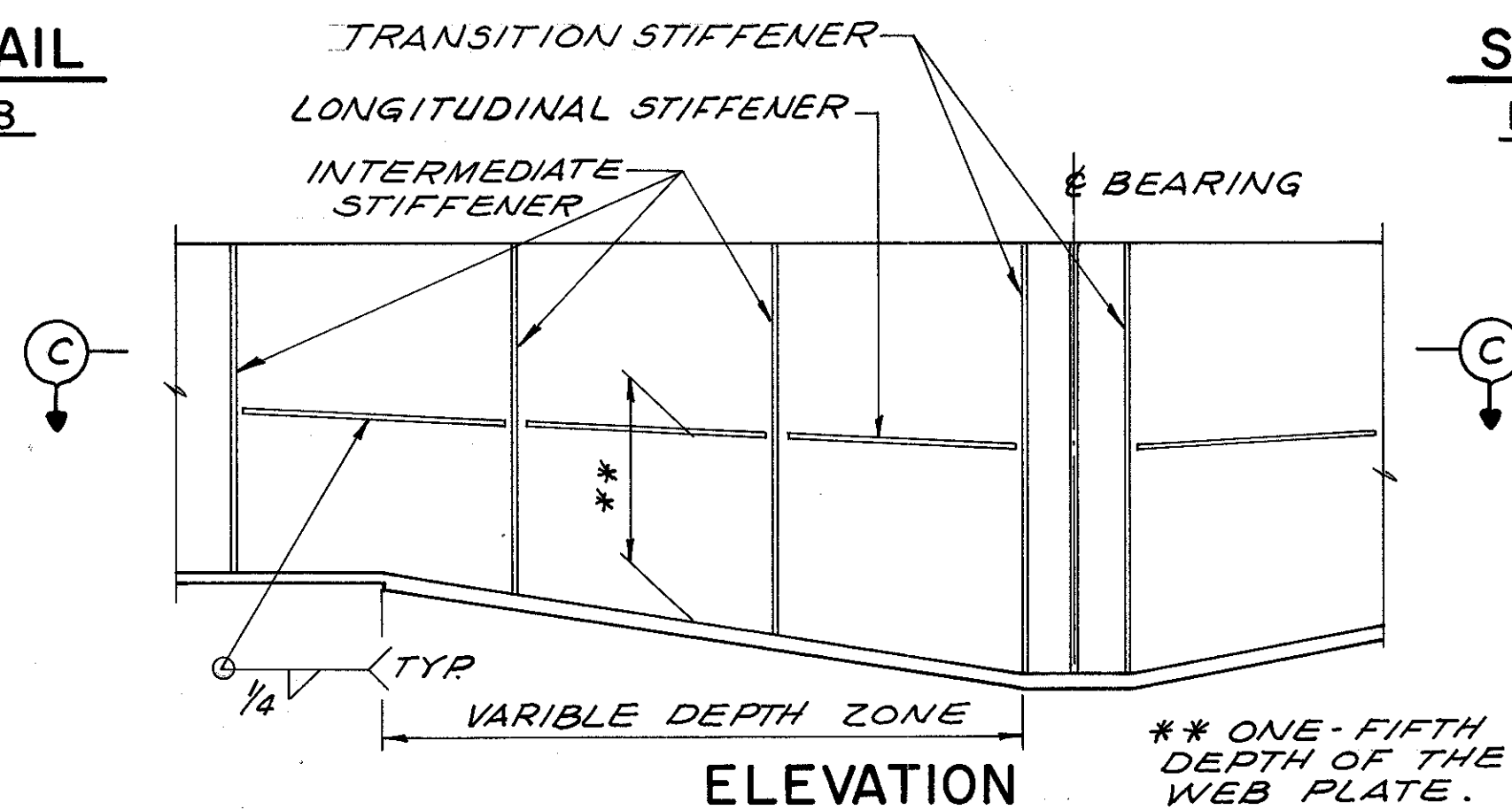


SPlice DETAIL
FOR SPlice N° 8
9 & 10 SIMILAR



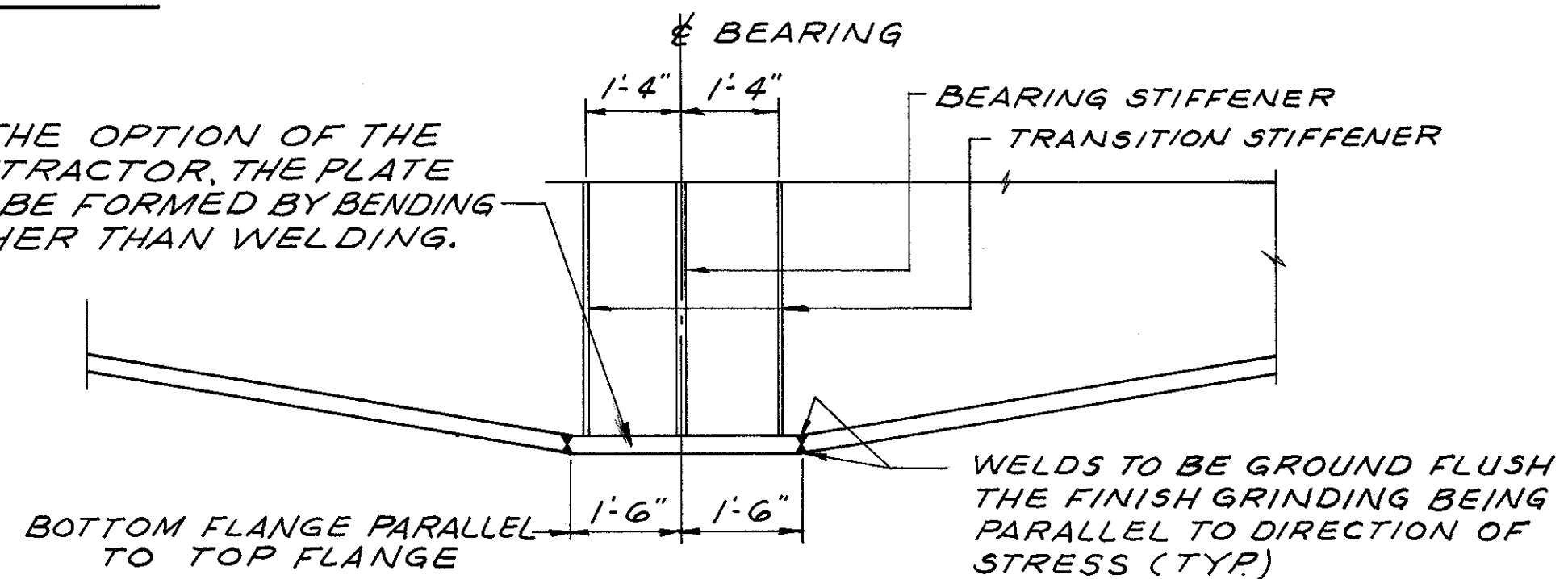
SPlice DETAIL
FOR SPlice N° 11

TABLE OF FILL PLATES		
SPL.	PL.	SIZE
8	a	7/8" x 20" x 2'-5"
	b	7/8" x 20" x 2'-5"
9	a	3/8" x 20" x 2'-5"
	b	3/8" x 20" x 2'-5"
10	a	5/8" x 20" x 2'-5"
	b	1/8" x 20" x 2'-5"

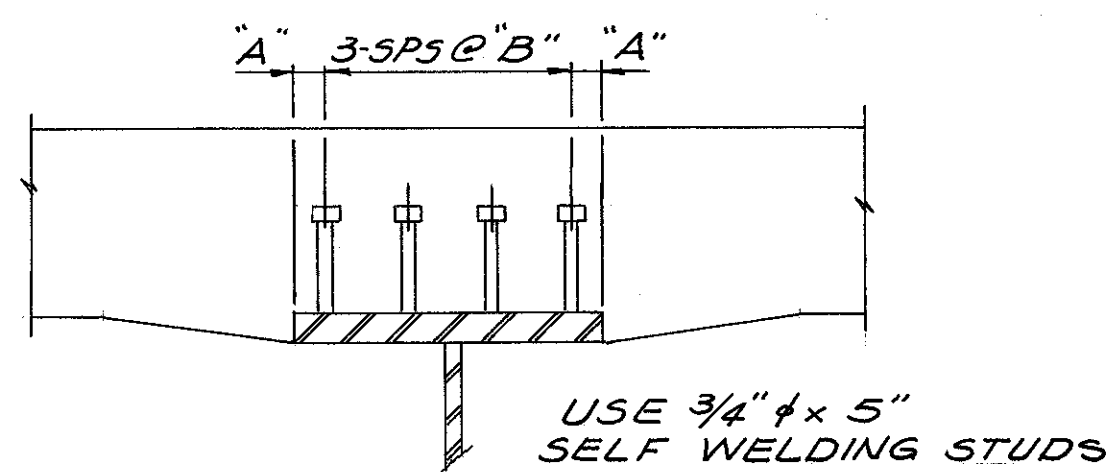


ELEVATION

AT THE OPTION OF THE
CONTRACTOR, THE PLATE
MAY BE FORMED BY BENDING
RATHER THAN WELDING.

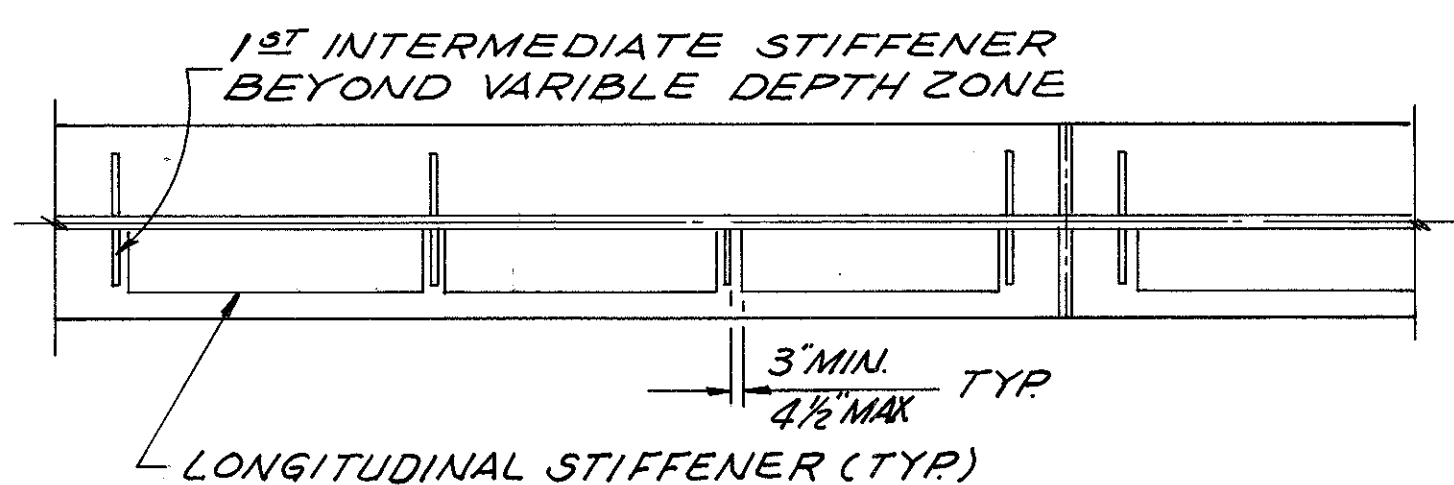


HAUNCH DETAIL



TYPICAL STUD SPACING

TABLE OF STUD SPACING		
FLG. WIDTH	"A"	"B"
18"	2 1/16"	4 5/8"
20"	1 15/16"	5 3/8"
24"	2 1/16"	6 5/8"
28"	2"	8"



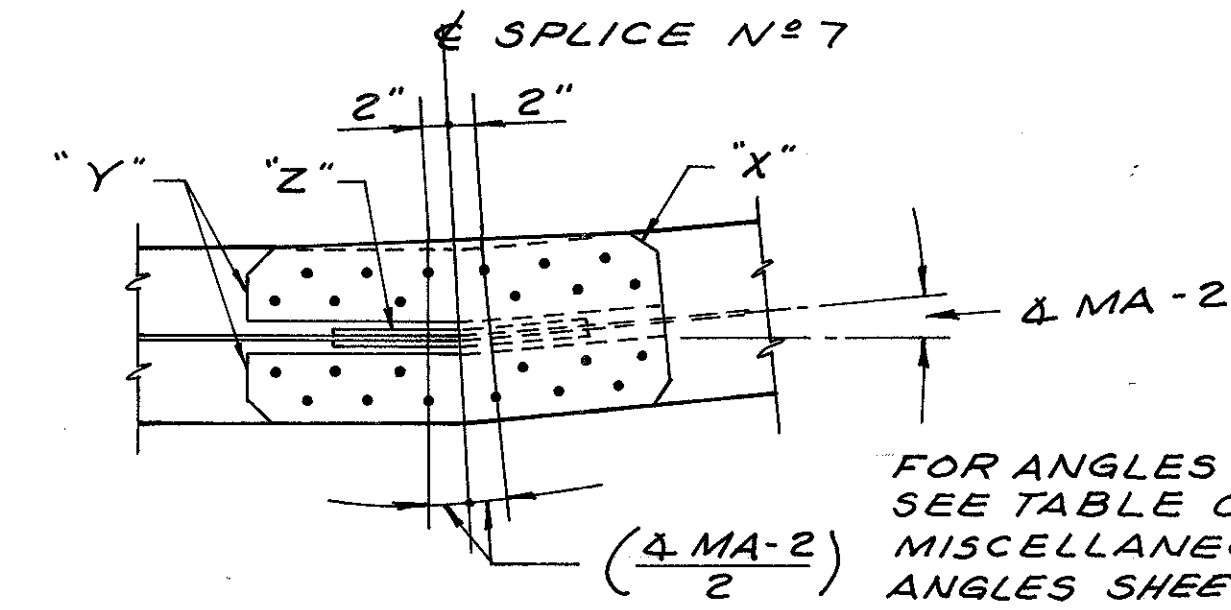
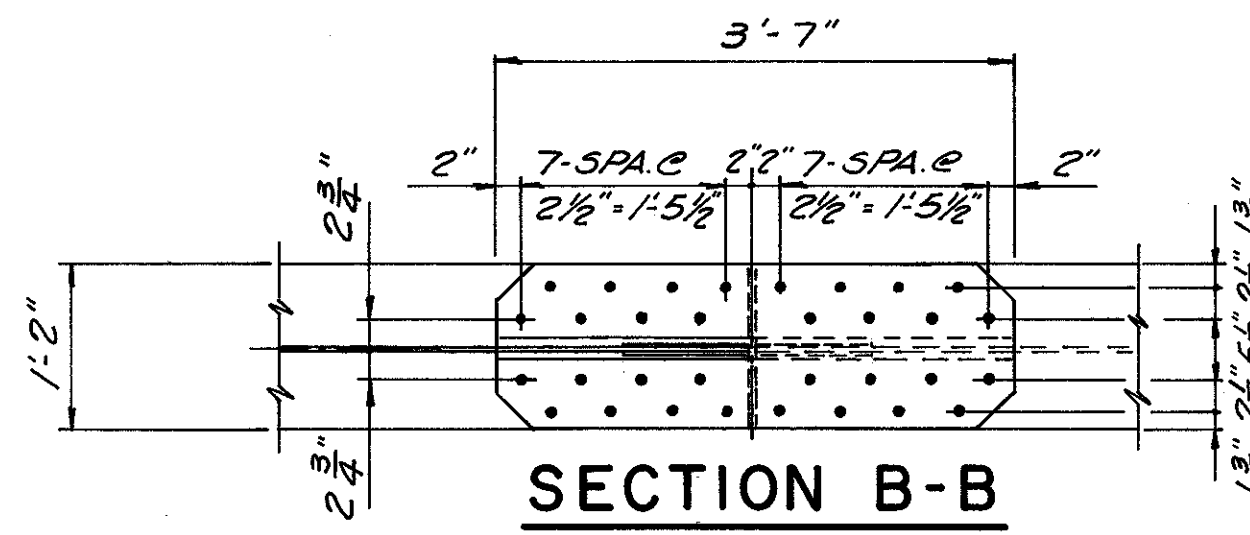
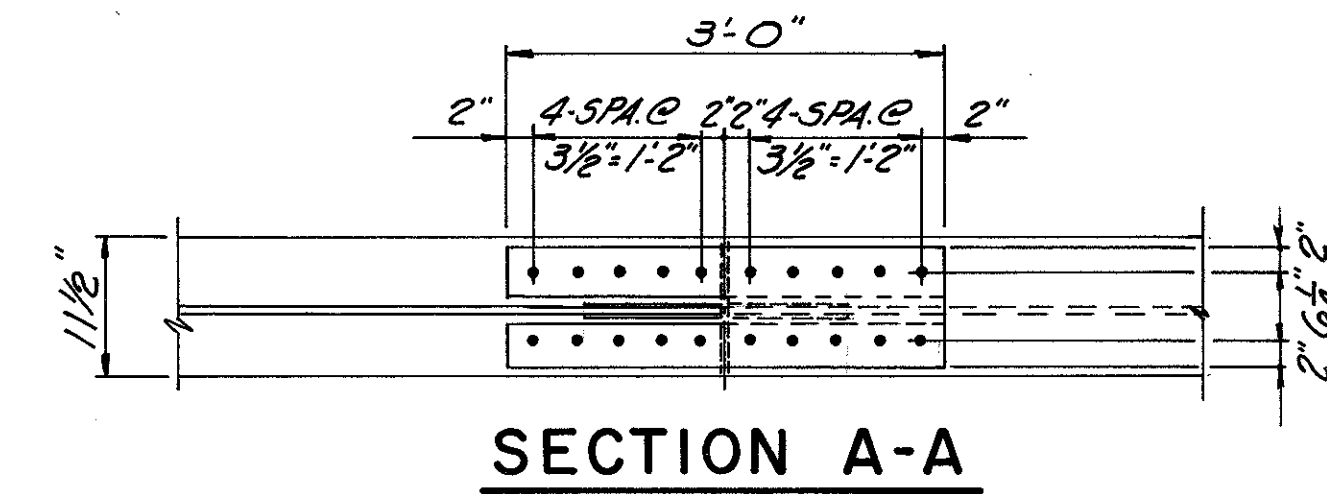
SECTION C-C

LONGITUDINAL STIFFENER DETAIL

TABLE OF GIRDER DIMENSIONS FOR UNIT N° 3								
DIMENSION	a	b	c	d	e	f	g	h
A	144'-4 1/8"	243'-5 1/4"	184'-4 7/8"	92'-9 1/16"	115'-10 3/4"	128'-3 3/16"	121'-11 5/16"	113'-3 1/16"
B	161'-1 3/8"	244'-3 5/16"	174'-5 13/16"	102'-4 7/16"	119'-2 1/4"	128'-5 1/2"	120'-3 3/8"	109'-6 15/16"
C	176'-11 3/4"	245'-0 1/8"	165'-6 5/16"	111'-9"	122'-2"	128'-7 13/16"	118'-10 1/16"	106'-1 5/16"
D	192'-0 5/16"	245'-8 15/16"	157'-4 3/16"	120'-10 13/16"	124'-10 3/16"	128'-10 3/16"	117'-7 1/2"	102'-10"
E	206'-4"	246'-6 1/2"	149'-9 3/4"	129'-9 5/16"	127'-4 3/8"	129'-2 1/8"	116'-7 7/8"	99'-8 1/16"

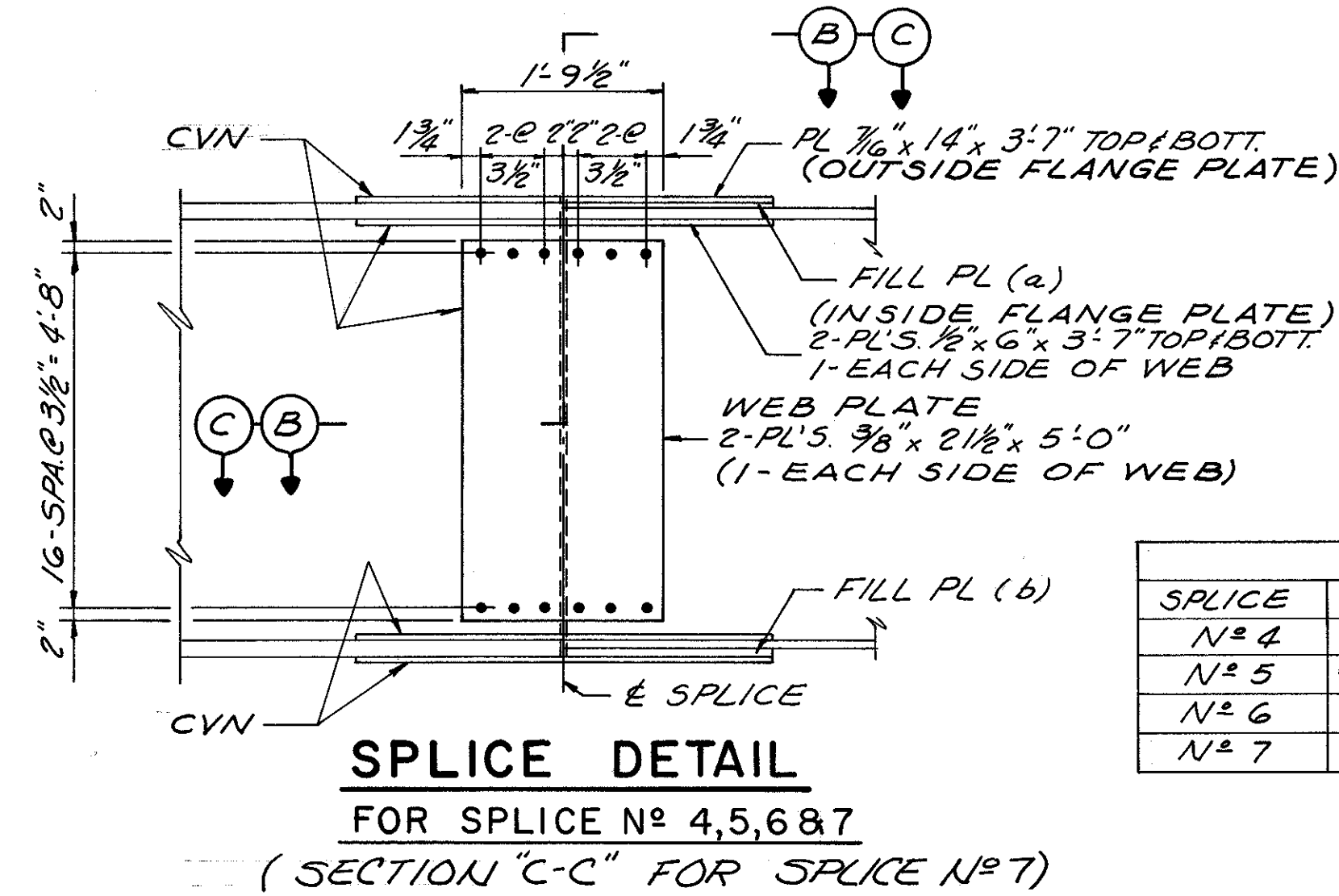
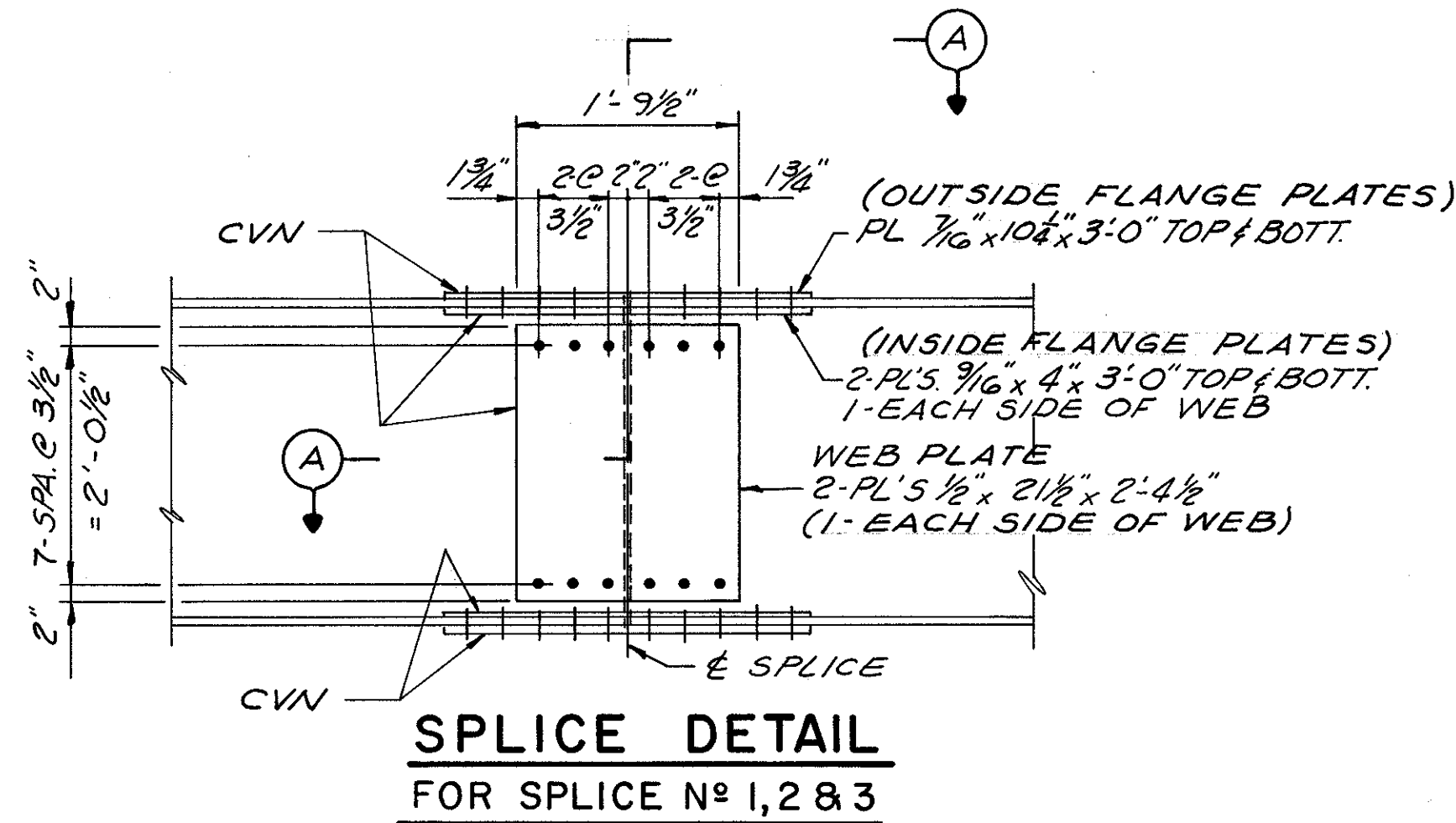
SEE SHEET 28/45 FOR LOCATIONS OF DIMENSIONS "a" THRU "h"

AKRON INNERBELT
SUM- 59- 0.00

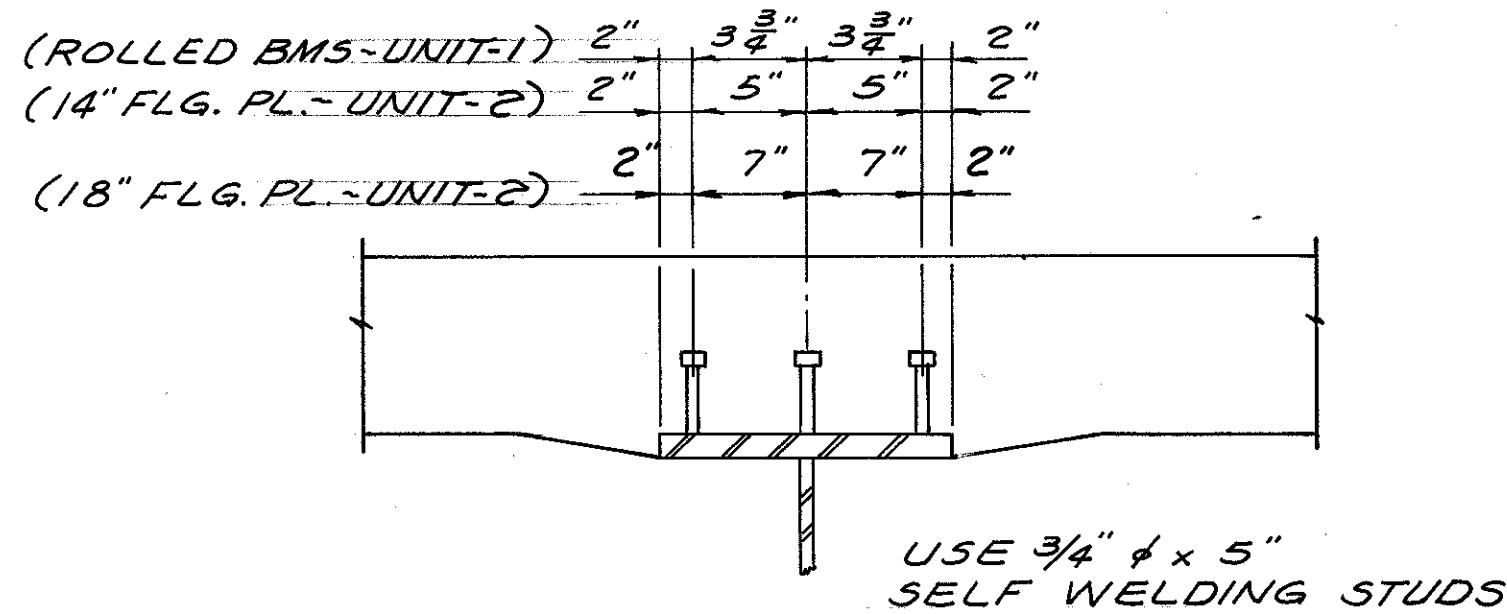


FOR ANGLES (MA-2)
SEE TABLE OF
MISCELLANEOUS
ANGLES SHEET 25/45.

SECTION "C - C"
(WORK WITH SECTION "B-B")



SPLICE	FILL PLATES	
	(a)	(b)
N° 4	3/8" x 14" x 1'-9 1/2"	1/8" x 14" x 1'-9 1/2"
N° 5	3/8" x 14" x 1'-9 1/2"	1/2" x 14" x 1'-9 1/2"
N° 6	1/8" x 14" x 1'-9 1/2"	1/8" x 14" x 1'-9 1/2"
N° 7	1/8" x 14" x 1'-9 1/2"	3/8" x 14" x 1'-9 1/2"



TYPICAL STUD SPACING

BEARING UNITS													
BOLSTER N°	ROCKER N°	DIMENSIONS (INCHES)											
		A	B	C	D	F	G	H	K	L	M	R	T
	R-375	4"	23"	4 1/2"	3 3/4"	7 1/8"	14"	22 3/8"	16"	31"	28"	14"	3 3/4"
B 425		4 1/2"	25"	4 1/2"	4"	7 1/8"	15"	23 3/8"	17"	34"	31"	15"	4"

NOTES: FOR DETAILS NOT SHOWN, SEE STANDARD DRAWING RB-1-55
ANCHOR BOLTS FOR BOLSTERS IN ALL CASES SHALL EXTEND A
MINIMUM OF 1'-3" INTO THE CONCRETE.

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CLEVELAND, OHIO AKRON, OHIO

SPLICE DETAILS 31/45

AKRON INNERBELT OVER BOWERY STREET,
OHIO CANAL, WEST EXPRESSWAY AND
RUSSELL AVENUE
BR. NO. SUM-59-0000
AKRON OHIO SUMMIT COUNTY
STA. 114 + 52.10 TO STA. 129 + 52.60

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RER	F.F.		A.H.	J.P.	12-20-52	

AKRON INNERBELT
SUM - 59 - 0.00

NOTES

① FOR NOTES SEE SHT. 35/45

UNIT NO. 1																				
	BEAM A				BEAM B				BEAM C				BEAM D				BEAM E			
LOCATION	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)
EBRG. UNIT 1 @ A-1																				
1/4 PT.	.0210	.1320	-.2544	-.1014	.0210	.1320	-.2544	-.1014	.0210	.1320	-.2543	-.1013	.0210	.1320	-.2543	-.1013	.0210	.1320	-.2543	-.1013
1/2 PT.	.0270	.1610	-.3390	-.1510	.0270	.1610	-.3392	-.1512	.0270	.1610	-.3391	-.1511	.0270	.1610	-.3390	-.1510	.0270	.1610	-.3391	-.1511
3/4 PT.	.0125	.0780	-.2542	-.1637	.0125	.0780	-.2545	-.1640	.0125	.0780	-.2543	-.1638	.0125	.0780	-.2543	-.1638	.0125	.0780	-.2544	-.1639
PIER P-1																				
EBRG. UNIT 1 @ A-2																				
1/4 PT.	.0113	.2064	.1478	.3655	.0113	.2064	-----	.2178	.0113	.2064	-.1511	.0667	.0113	.2064	-.2629	-.0451	.0113	.2064	-.3292	-.1115
1/2 PT.	.0180	.1180	.1873	.3233	.0180	.1180	.1096	.2456	.0180	.1180	-.0344	.1016	.0180	.1180	-.2493	-.1133	.0180	.1180	-.4006	-.2646
3/4 PT.	-.0070	-.0385	.0937	.0482	-.0070	-.0385	.0550	.0095	-.0070	-.0385	-.0173	-.0628	-.0070	-.0385	-.1223	-.1678	-.0070	-.0385	-.2128	-.2583
PIER P-2																				
EBRG. UNIT 2 @ A-2																				
1/4 PT.	.0843	.5353	-----	.6195	.0843	.5353	-----	.6195	.0843	.5353	-----	.6195	.0843	.5353	-----	.6195	.0843	.5353	-----	.6195
1/2 PT.	.1560	.9880	-----	1.1440	.1560	.9880	-----	1.1440	.1560	.9880	-----	1.1440	.1560	.9880	-----	1.1440	.1560	.9880	-----	1.1440
3/4 PT.	.2450	1.5430	-----	1.7880	.2450	1.5430	-----	1.7880	.2450	1.5430	-----	1.7880	.2450	1.5430	-----	1.7880	.2450	1.5430	-----	1.7880
EBRG. UNIT 3 @ A-3																				
1/4 PT.	.1345	.8565	-----	.9910	.1345	.8565	-----	.9910	.1345	.8565	-----	.9910	.1345	.8565	-----	.9910	.1345	.8565	-----	.9910
3/4 PT.	.0650	.4194	-----	.4844	.0650	.4194	-----	.4844	.0650	.4194	-----	.4844	.0650	.4194	-----	.4844	.0650	.4194	-----	.4844
PIER P-3																				
EBRG. UNIT 1 @ P-4																				
1/4 PT.	.0500	.3185	-----	.3685	.0500	.3185	-----	.3685	.0500	.3185	-----	.3685	.0500	.3185	-----	.3685	.0500	.3185	-----	.3685
1/2 PT.	.1260	.7920	-----	.9180	.1260	.7920	-----	.9180	.1260	.7920	-----	.9180	.1260	.7920	-----	.9180	.1260	.7920	-----	.9180
3/4 PT.	.1085	.6810	-----	.7895	.1085	.6810	-----	.7895	.1085	.6810	-----	.7895	.1085	.6810	-----	.7895	.1085	.6810	-----	.7895

UNIT NO. 2																				
BEAM A					BEAM B				BEAM C				BEAM D				BEAM E			
LOCATION	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)
EBRG. UNIT 2 @ P-4																				
1/8 PT.	.2982	1.0897	----	1.3880	.2890	1.2312	----	1.5202	.2800	1.1907	----	1.4707	.2690	1.1477	----	1.4167	.2582	.9480	----	1.2062
1/4 PT.	.5215	1.9045	----	2.4260	.5055	2.1460	----	2.6515	.4875	2.0700	----	2.5575	.4675	1.9890	----	2.4565	.4475	1.6375	----	2.0850
3/8 PT.	.6360	2.3172	----	2.9532	.6132	2.6002	----	3.2135	.5892	2.4962	----	3.0855	.5625	2.3847	----	2.9472	.5340	1.9505	----	2.9845
1/2 PT.	.6290	2.2860	----	2.9150	.6030	2.5470	----	3.1500	.5740	2.4270	----	3.0010	.5430	2.2970	----	2.8400	.5110	1.8590	----	2.3700
5/8 PT.	.4975	1.8030	----	2.3005	.4720	1.9845	----	2.4565	.4435	1.8650	----	2.3085	.4125	1.7360	----	2.1485	.3810	1.3782	----	1.7592
ESPL. N°4	.3333	1.2015	----	1.5347	.3109	1.2994	----	1.6104	.2863	1.1954	----	1.4817	.2599	1.0835	----	1.3434	.2323	.8322	----	1.0644
3/4 PT.	.3060	1.1020	----	1.4080	.2845	1.1875	----	1.4720	.2610	1.0875	----	1.3485	.2355	.9795	----	1.2150	.2090	.7465	----	.9555
7/8 PT.	.1205	.4257	----	.5462	.1075	.4392	----	.5467	.0935	.3790	----	.4725	.0787	.3145	----	.3932	.0625	.2122	----	.2747
EBPIER P-5																				
1/8 PT.	-.0180	-.0287	.0369	-.0099	.0005	.0450	.0248	.0703	.0217	.1395		.1612	.0465	.2480	----	.2945	.0732	.3207	----	.3940
1/4 PT.	.0455	.2480	.0739	.3674	.0870	.4670	.0497	.6037	.1350	.6795	.0256	.8401	.1882	.9169	----	1.1051	.2342	.9709	----	1.2051
ESPL. N°5	.0665	.3359	.0824	.4848	.1038	.5465	.0534	.7036	.1447	.7246	.0266	.8959	.1890	.9205	----	1.1095	.2490	1.0295	----	1.2785
3/8 PT.	.1390	.6245	.1108	.8743	.1997	.9895	.0746	1.2638	.2700	1.2997	.0386	1.6083	.3487	1.6500	----	1.9987	.9360	1.7615	----	2.1975
1/2 PT.	.2060	.8820	.1477	1.2357	.2750	1.3230	.0996	1.6976	.3530	1.6700	.0515	2.0745	.4420	2.0610	----	2.5030	.5380	2.1520	----	2.6900
5/8 PT.	.2027	.8485	.1846	1.2358	.2620	1.2415	.1244	1.6279	.3297	1.5385	.0643	1.9326	.4050	1.8697	----	2.2747	.4870	1.9320	----	2.4190
3/4 PT.	.1415	.5830	.2216	.9461	.1800	.8415	.1493	1.1708	.2240	1.0320	.0771	1.3331	.2725	1.2420	----	1.5145	.3255	1.2770	----	1.6025
ESPL. N°6	.1241	.5096	.2263	.8600	.1503	.6988	.1542	1.0033	.1781	.8146	.0805	1.0732	.2062	.9341	----	1.1403	.2348	.9143	----	1.1490
7/8 PT.	.0570	.2312	.1249	.4131	.0725	.3320	.0879	.4924	.0905	.4062	.0471	.5439	.1092	.4875	----	.5967	.1302	.4982	----	.6285
EBPIER P-6																				
1/8 PT.	-.0002	.0087	.1148	.1233	-.0015	.0090	.1425	.1500	-.0028	.0093	.1729	.1794	-.0045	.0097	.2055	.2108	-.0055	.0117	.3698	.3760
1/4 PT.	.0250	.1230	.2318	.3798	.0290	.1715	.2872	.4877	.0335	.2070	.3476	.5881	.0395	.2505	.4133	.7033	.0475	.2635	.7242	1.0352
ESPL. N°7	.0552	.2532	.3321	.6405	.0589	.3235	.3877	.7701	.0619	.3493	.4445	.8557	.0652	.3872	.5014	.9538	.0709	.3674	.8291	1.2674
3/8 PT.	.0615	.2800	.3529	.6944	.0737	.3977	.4365	.9080	.0877	.4640	.5279	1.0797	.1052	.5880	.6267	1.3200	.1275	.6150	1.0586	1.8011
1/2 PT.	.0920	.4110	.4783	.9813	.1120	.5870	.5824	1.2814	.1350	.7170	.6909	1.5429	.1630	.8720	.8031	1.8381	.1970	.9090	1.2944	2.4004
5/8 PT.	.1017	.4477	.5275	1.0770	.1245	.6422	.6238	1.3906	.1512	.7857	.7236	1.6606	.1830	.9555	.8267	1.9652	.2207	.9957	1.3118	2.5283
3/4 PT.	.0875	.3825	.4620	.9320	.1075	.5490	.5376	1.1941	.1305	.6730	.6161	1.4196	.1580	.8185	.6970	1.6735	.1910	.8520	1.1050	2.1480
7/8 PT.	.0515	.2220	.2852	.5587	.0627	.3192	.3283	.7103	.0767	.3915	.3733	.8416	.0925	.4760	.4193	.9878	.1117	.4952	.6695	1.2765
EBRG. UNIT 2 @ P-7																				

LEGEND

- ① DEFLECTION DUE TO WEIGHT OF STEEL.
- ② DEFLECTION DUE TO REMAINING DEAD LOAD.
- ③ ADJUSTMENT REQUIRED FOR VERTICAL AND HORIZONTAL CURVE.
- ④ REQUIRED SHOP CAMBER.

DALTON • DALTON • NEWPORT			
CLEVELAND, OHIO		AKRON, OHIO	
TABLE OF DEFLECTION AND CAMBER			
AKRON INNERBELT OVER BOWERY STREET, OHIO CANAL, WEST EXPRESSWAY AND RUSSELL AVENUE BR. NO. SUM-59-0000			
AKRON, OHIO		SUMMIT COUNTY	
STA. 114+52.10 TO STA. 129+52.60			
DESIGNED	DRAWN	TRACED	CHECKED
ALF	M.A.B.		ALH
		12-20-82	

AKRON INNERBELT
SUM - 59 - 0.00

NOTES

① FOR NOTES SEE SHT. 33/45

UNIT NO. 1																				
BEAM A				BEAM B				BEAM C				BEAM D				BEAM E				
LOCATION	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)
BRG. UNIT 1 @ A-1																				
1/4 PT.	.0210	.1320	-.2544	-.1014	.0210	.1320	-.2544	-.1014	.0210	.1320	-.2543	-.1013	.0210	.1320	-.2543	-.1013	.0210	.1320	-.2543	-.1013
1/2 PT.	.0270	.1610	-.3390	-.1510	.0270	.1610	-.3392	-.1512	.0270	.1610	-.3391	-.1511	.0270	.1610	-.3390	-.1510	.0270	.1610	-.3391	-.1511
3/4 PT.	.0125	.0780	-.2542	-.1637	.0125	.0780	-.2545	-.1640	.0125	.0780	-.2543	-.1638	.0125	.0780	-.2543	-.1638	.0125	.0780	-.2544	-.1639
PIER P-1																				
SPL. N° 1	.0113	.2064	.1478	.3655	.0113	.2064	----	.2178	.0113	.2064	-.1511	.0667	.0113	.2064	-.2629	-.0451	.0113	.2064	-.3292	-.1115
1/2 PT.	.0180	.1180	.1873	.3233	.0180	.1180	.1096	.2456	.0180	.1180	-.0344	.1016	.0180	.1180	-.2493	-.1133	.0180	.1180	-.4006	-.2646
3/4 PT.	-.0070	-.0385	.0937	.0482	-.0070	-.0385	.0550	.0095	-.0070	-.0385	-.0173	-.0628	-.0070	-.0385	-.1223	-.1678	-.0070	-.0385	-.2128	-.2583
PIER P-2																				
SPL. N° 2	.0843	.5353	----	.6195	.0843	.5353	----	.6195	.0843	.5353	----	.6195	.0843	.5353	----	.6195	.0843	.5353	----	.6195
1/4 PT.	.1560	.9880	----	1.1440	.1560	.9880	----	1.1440	.1560	.9880	----	1.1440	.1560	.9880	----	1.1440	.1560	.9880	----	1.1440
1/2 PT.	.2450	1.5430	----	1.7880	.2450	1.5430	----	1.7880	.2450	1.5430	----	1.7880	.2450	1.5430	----	1.7880	.2450	1.5430	----	1.7880
3/4 PT.	.1345	.8565	----	.9910	.1345	.8565	----	.9910	.1345	.8565	----	.9910	.1345	.8565	----	.9910	.1345	.8565	----	.9910
SPL. N° 3	.0650	.4194	----	.4844	.0650	.4194	----	.4844	.0650	.4194	----	.4844	.0650	.4194	----	.4844	.0650	.4194	----	.4844
PIER P-3																				
1/4 PT.	.0500	.3185	----	.3685	.0500	.3185	----	.3685	.0500	.3185	----	.3685	.0500	.3185	----	.3685	.0500	.3185	----	.3685
1/2 PT.	.1260	.7920	----	.9180	.1260	.7920	----	.9180	.1260	.7920	----	.9180	.1260	.7920	----	.9180	.1260	.7920	----	.9180
3/4 PT.	.1085	.6810	----	.7895	.1085	.6810	----	.7895	.1085	.6810	----	.7895	.1085	.6810	----	.7895	.1085	.6810	----	.7895
BRG. UNIT 1 @ P-4																				

UNIT NO 2																				
BEAM A				BEAM B				BEAM C				BEAM D				BEAM E				
LOCATION	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)	(a)	(b)	(c)	(d)
£ BRG. UNIT 2 @ P-4																				
1/8 PT.	.2852	1.0422	-----	1.3275	.2947	1.2532	-----	1.5480	.3035	1.2940	-----	1.5975	.3137	1.3360	-----	1.6497	.3235	1.1837	-----	1.5072
1/4 PT.	.4990	1.8205	-----	2.3195	.5150	2.1860	-----	2.7010	.5310	2.2555	-----	2.7865	.5470	2.3265	-----	2.8735	.5635	2.0600	-----	2.6235
3/8 PT.	.6077	2.2132	-----	2.8210	.6257	2.6522	-----	3.2780	.6445	2.7325	-----	3.3770	.6632	2.8145	-----	3.4777	.6820	2.4892	-----	3.1712
1/2 PT.	.6000	2.1780	-----	2.7780	.6160	2.6040	-----	3.2200	.6330	2.6770	-----	3.3100	.6500	2.7500	-----	3.4000	.6670	2.4280	-----	3.0950
5/8 PT.	.4727	1.7115	-----	2.1842	.4837	2.0375	-----	2.5212	.4952	2.0847	-----	2.5800	.5067	2.1335	-----	2.6402	.5172	1.8757	-----	2.3930
£ SPL. No. 4	.3149	1.1351	-----	1.4501	.3163	1.3225	-----	1.6389	.3169	1.3252	-----	1.6420	.3172	1.3263	-----	1.6435	.3168	1.1406	-----	1.4574
3/4 PT.	.2890	1.0400	-----	1.3290	.2940	1.2280	-----	1.5220	.2985	1.2475	-----	1.5460	.3030	1.2660	-----	1.5690	.3070	1.1045	-----	1.4115
7/8 PT.	.1127	.3970	-----	.5097	.1125	.4612	-----	.5737	.1130	.4612	-----	.5742	.1127	.4600	-----	.5727	.1125	.3932	-----	.5057
£ PIER No.5																				
1/8 PT.	-.0122	-.0072	.0379	.0184	-.0060	.0173	.0257	.0369	.0013	.0500	-----	.0513	.0090	.0850	-----	.0940	.0177	.1115	-----	.1292
1/4 PT.	.0555	.2845	.0755	.4155	.0735	.4065	.0510	.5310	.0930	.4970	.0264	.6164	.1150	.5955	-----	.7105	.1389	.6136	-----	.7525
£ SPL. No.5	.0776	.3750	.0842	.5368	.0917	.4925	.0552	.6393	.1063	.5595	.0278	.6936	.1222	.6293	-----	.7515	.1390	.6140	-----	.7530
3/8 PT.	.1510	.6700	.1129	.9339	.1807	.9037	.0762	1.1607	.2125	1.0490	.0394	1.3009	.2472	1.2050	-----	1.4522	.2850	1.1945	-----	1.4795
1/2 PT.	.2190	.9290	.1502	1.2982	.2540	1.2270	.1013	1.5823	.2910	1.3950	.0523	1.7383	.3310	1.5740	-----	1.9050	.3740	1.5330	-----	1.9070
5/8 PT.	.2142	.8910	.1870	1.2923	.2440	1.1605	.1261	1.5306	.2757	1.3010	.0652	1.6419	.3085	1.4482	-----	1.7567	.3445	1.3932	-----	1.7377
3/4 PT.	.1505	.6160	.2237	.9902	.1680	.7890	.1508	1.1078	.1870	.8710	.0778	1.1358	.2065	.9545	-----	1.1610	.2270	.9060	-----	1.1330
£ SPL. No. 6	.1326	.5400	.2283	.9009	.1421	.6640	.1522	.9612	.1517	.7020	.0807	.9344	.1602	.7352	-----	.8954	.1686	.6663	-----	.8348
7/8 PT.	.0620	.2495	.1261	.4376	.0680	.3110	.0877	.4667	.0735	.3345	.0462	.4542	.0790	.3565	-----	.4355	.0847	.3295	-----	.4142
£ PIER No.6																				
1/8 PT.	-.0040	-.0057	.1143	.1045	-.0007	.0108	.1421	.1521	.0030	.0330	.1726	.2086	.0080	.0627	.2055	.2762	.0145	.0835	.3699	.4679
1/4 PT.	.0175	.0915	.2308	.3398	.0280	.1650	.2865	.4795	.0415	.2375	.3472	.6262	.0585	.3290	.4133	.8008	.0790	.3740	.7245	1.1775
£ SPL. No. 7	.0446	.2098	.3309	.5853	.0562	.3090	.3869	.7520	.0699	.3832	.4439	.8971	.0862	.4702	.5014	1.0578	.1043	.4852	.8294	1.4189
3/8 PT.	.0502	.2345	.3516	.6364	.0702	.3792	.4355	.8850	.0957	.5105	.5273	1.1335	.1262	.6695	.6266	1.4223	.1622	.7350	1.0589	1.9561
1/2 PT.	.0790	.3570	.4770	.9130	.1070	.5580	.5817	1.2467	.1410	.7310	.6904	1.5624	.1820	.9420	.8030	1.9270	.2300	1.0190	1.2947	2.5437
5/8 PT.	.0892	.3962	.5264	1.0119	.1185	.6097	.6230	1.3513	.1540	.7892	.7231	1.6664	.1970	1.0075	.8268	2.0313	.2462	1.0812	1.3123	2.6398
3/4 PT.	.0775	.3410	.4611	.8796	.1020	.5210	.5370	1.1600	.1320	.6705	.6158	1.4183	.1675	.8510	.6970	1.7155	.2090	.9095	1.1053	2.2238
7/8 PT.	.0455	.1995	.2845	.5295	.0600	.3025	.3280	.6905	.0770	.3882	.3731	.8383	.0975	.4912	.4192	1.0079	.1207	.5240	.6695	1.3143
£ BRG. UNIT 2 @ P-7																				

LEGEND

- Ⓐ DEFLECTION DUE TO WEIGHT OF STEEL.
- Ⓑ DEFLECTION DUE TO REMAINING DEAD LOAD.
- Ⓒ ADJUSTMENT REQUIRED FOR VERTICAL AND HORIZONTAL CURVE.
- Ⓓ REQUIRED SHOP CAMBER.

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CLEVELAND, OHIO AKRON, OHIO

TABLE OF
DEFLECTION AND CAMBER
AKRON INNERBELT OVER BOWERY STREET,
OHIO CANAL, WEST EXPRESSWAY
AND RUSSELL AVENUE
BR. NO. SUM-59-0000
AKRON OHIO SUMMIT COUNTY
STA. 114+52.10 TO STA. 129+52.60

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RLF	M.A.B.		ALH	JAP	12-20-82	

Supersedes sheet

AKRON INNERBELT
SUM - 59 - 0.00

UNIT NO 3

LOCATION	BEAM A					BEAM B					BEAM C					BEAM D					BEAM E				
	(a)	(b)	(c)	(d)	(e)	(a)	(b)	(c)	(d)	(e)	(a)	(b)	(c)	(d)	(e)	(a)	(b)	(c)	(d)	(e)	(a)	(b)	(c)	(d)	(e)
2 BRG. UNIT 3 @ P-7																									
1/10 PT.	.1093	.3125	.3600	.8765	1.6583	.1641	.4531	.4200	1.0811	2.1183	.2266	.6094	.5000	1.2897	2.6257	.3047	.8594	.6300	1.4990	3.2931	.4219	1.1094	.7800	1.7065	4.0178
1/5 PT.	.1953	.5625	.6600	1.5580	2.9758	.2969	.8125	.7900	1.9220	3.8214	.4063	1.1250	.9100	2.2928	2.2928	.5547	1.4844	1.1500	2.6647	5.8538	.7657	1.9766	1.3900	3.0335	7.1658
3/10 PT.	.2500	.7187	.8400	2.0452	3.8539	.3672	1.0313	.9800	2.5225	4.9010	.5156	1.4453	1.1700	3.0092	6.1401	.7188	1.8984	1.4500	3.4974	7.5646	.9141	2.4219	1.6800	3.9816	8.9976
2/5 PT.	.2656	.7500	.8600	2.3372	4.2128	.3750	1.1093	1.0400	2.8828	5.4071	.5547	1.5156	1.2400	3.4391	6.7494	.7187	1.9766	1.4400	3.9970	8.1323	.8907	2.4141	1.6600	4.5504	9.5152
1/2 PT.	.2109	.6484	.7500	2.4346	4.0439	.3359	1.0078	.9500	3.0032	5.2969	.4844	1.3750	1.1300	3.5826	6.5720	.6018	1.7031	1.2800	4.1636	7.7483	.6953	1.9609	1.3400	4.7401	8.7363
3/5 PT.	.1406	.4843	.5300	2.3372	3.4921	.2656	.7969	.7400	2.8831	4.6856	.3516	1.0391	.8400	3.4392	5.6499	.4141	1.2188	.9000	3.9972	6.5301	.4297	1.2891	.8600	4.5505	7.1293
2 SPL. N# 8	.1085	.3976	.4765	2.2905	3.2231	.2282	.7032	.6784	2.7865	4.3963	.2987	.9117	.7754	3.3374	5.3232	.3495	1.0573	.8321	3.8841	6.1231	.3482	1.0748	.7974	4.4205	6.6409
7/10 PT.	.0625	.2734	.4000	2.0451	2.7810	.1563	.5234	.5600	2.5227	3.7624	.1797	.6250	.6300	3.0093	4.4440	.1953	.6719	.6700	3.4975	5.0347	.1563	.5703	.6500	3.9817	5.3583
4/5 PT.	.0078	.1015	.2700	1.5583	1.9376	.0547	.2344	.3700	1.9221	2.5812	.0391	.2422	.4200	2.2928	2.9941	.0234	.1879	.4500	2.6647	3.3260	-.0782	.0313	.4300	3.0338	3.9169
9/10 PT.	-.0234	.0001	.1300	.8765	.9832	-.0156	.0390	.1900	1.0811	1.2945	-.0469	.0010	.2100	1.2897	1.4538	-.0607	-.0599	.2200	1.4990	1.5984	-.1407	-.2032	.2200	1.7063	1.5824
2 PIER P-8																									
1/10 PT.	.1875	.2812	.2900	2.3199	3.0786	.2265	.3672	.3300	2.3232	3.2469	.2422	.4297	.3400	2.3644	3.3763	.2969	.5625	.3700	2.4419	3.6713	.3984	.7344	.4200	2.4588	4.0116
1/5 PT.	.5078	.8984	.5800	4.0668	6.0530	.5859	1.0469	.6600	4.0816	6.3744	.6406	1.2109	.6900	4.1732	6.7147	.7734	1.4922	.7400	4.3378	7.3434	.9844	1.9609	.8400	4.3807	8.1660
2 SPL. N# 9	.7656	1.3849	.8914	4.8653	7.9072	.7741	1.4305	.8916	4.7048	7.8009	.7851	1.4924	.8590	4.6329	7.7693	.8683	1.6835	.8335	4.6316	8.0169	1.0249	2.0342	.8748	4.4880	8.4218
3/10 PT.	.9218	1.6796	1.0800	5.2411	8.9225	.9922	1.8750	1.1600	5.2754	9.3026	1.0938	2.0938	1.2200	5.4262	9.8338	1.2813	2.5156	1.2400	5.6877	10.7246	1.6016	3.0781	1.3700	5.7660	11.8157
2/5 PT.	1.2656	2.3984	1.5200	5.8425	11.0265	1.3281	2.5469	1.5600	5.9041	11.3391	1.4375	2.8203	1.6100	6.1237	11.7915	1.6719	3.2734	1.6300	6.4911	13.0664	1.9922	3.9453	1.7100	6.6028	14.2503
1/2 PT.	1.4609	2.8203	1.7800	5.8713	11.9325	1.4922	2.8784	1.7800	5.9680	12.1386	1.6075	3.1410	1.7800	6.2655	12.7940	1.8125	3.5625	1.7800	6.7619	13.9169	2.0937	4.0391	1.7800	6.8439	14.7567
3/5 PT.	1.4531	2.7812	1.7600	5.3273	11.3216	1.4531	2.0847	1.7300	5.4497	10.7175	1.5391	2.9844	1.7000	6.0632	12.2867	1.6956	3.2546	1.6400	6.5018	13.0920	1.8516	3.5156	1.5500	6.5485	13.9657
7/10 PT.	1.2187	2.3281	1.4800	4.3364	9.3632	1.2031	2.2969	1.4200	4.9344	9.8544	1.2500	2.3594	1.3600	5.3809	10.3503	1.3281	2.4766	1.2400	5.6955	10.7402	1.3594	2.4531	1.1000	5.7163	10.6288
2 SPL. N# 10	.8248	1.5473	.9938	3.5762	6.9421	.8908	1.6836	1.0420	4.2054	7.8218	.9820	1.8143	1.0512	4.7410	8.5885	1.0921	2.0011	1.0069	5.1787	9.2787	1.1814	2.0948	.9838	5.3572	9.5573
4/5 PT.	.7812	1.4609	.9400	3.4636	6.6457	.7734	1.4531	.9000	3.8545	6.9810	.7813	1.4063	.8200	4.1430	7.1506	.7813	1.3750	.7000	4.3430	7.1993	.7734	1.2734	.5200	4.3475	6.9143
9/10 PT.	.3359	.5937	.4700	2.0182	3.4178	.3359	.5781	.4500	2.2096	3.5736	.3047	.5156	.4100	2.3493	3.5796	.2969	.4531	.3500	2.4446	3.5446	.2891	.3828	.2900	2.4420	3.4039
2 PIER P-9																									
1/10 PT.	-.1171	-.1406	----	1.4948	1.2371	-.0859	-.0469	----	1.3039	1.1711	-.0687	-.0076	----	1.1937	1.0674	-.0559	.0293	----	1.0077	.9811	-.0781	.0234	----	.8909	.8362
1/5 PT.	-.1093	.0156	----	2.6575	2.5638	-.0625	.1563	.2100	2.3181	2.6219	-.0312	.2344	.1900	2.0334	2.4266	-.0234	.2656	.2100	1.7915	2.2437	-.0547	.2422	.1700	1.5838	1.9413
3/10 PT.	.0001	.4375	.2500	3.4879	4.1755	.0625	.5859	.4300	3.0424	4.1208	.0859	.6328	.3800	2.6688	3.7675	.0781	.6484	.4200	2.3512	3.4977	.0312	.6016	.3400	2.0788	3.0516
2 SPL. N# 11	.1542	.9069	.5762	3.9358	5.5731	.1750	.9347	.6676	3.3846	5.1619	.1734	.8999	.6158	2.9243	4.6134	.1362	.8299	.5686	2.5351	4.0697	.0795	.7465	.4465	2.2032	3.4756
2/5 PT.	.1796	.9843	.6300	3.9861	5.7800	.2188	1.0703	.7600	3.4772	5.5263	.2344	1.0859	.7800	3.0500	5.1503	.2031	1.0391	.7400	2.6871	4.6693	.1719	1.0234	.6500	2.3757	4.2210
1/2 PT.	.3750	1.5156	1.1000	4.1521	7.1427	.3750	1.5000	1.1200	3.6219	6.6169	.3516	1.4375	1.0700	3.1772	6.0363	.3203	1.3671	1.0100	2.7991	5.4965	.2969	1.4062	.9100	2.4747	5.0878
3/5 PT.	.5156	1.8359	1.3600	3.9862	7.6977	.4766	1.7265	1.3000	3.4771	6.9802	.4219	1.6094	1.2200	3.0500	6.3013	.3983	1.5391	1.1400	2.6871	5.7645	.3828	1.5781	1.0500	2.3758	5.3867
7/10 PT.	.5625	1.8671	1.4000	3.4878	7.3174	.4844	1.6797	1.2900	3.0425	6.4966	.4219	1.5469	1.1800	2.6688	5.8176	.3906	1.4609	1.1200	2.3511	5.3226	.3906	1.4766	1.0200	2.0789	4.9661
4/5 PT.	.4765	1.5156	1.1800	2.6574	5.8295	.3906	1.3359	1.0200	2.3181	5.0646	.3359	1.2344	.9500	2.0335	4.5538	.3047	1.1641	.8900	1.7915	4.1503	.3359	1.1875	.8200	1.5839	3.9273
9/10 PT.	.2656	.8515	.6400	1.4947	3.2518	.2266	.7500	.5600	1.3039	2.8405	.1953	.6953	.5500	1.1439	2.5845	.1719	.6406	.4900	1.0076	2.3101	.1719	.6484	.4500	.8909	2.1612
2 BRG. UNIT 3 @ P-10																									

LEGEND

- (a) DEFLECTION DUE TO WEIGHT OF STEEL
- (b) DEFLECTION DUE TO REMAINING DEAD LOAD.
- (c) ADJUSTMENT REQUIRED FOR HEAT CURVING.
- (d) ADJUSTMENT REQUIRED FOR VERTICAL CURVE.
- (e) REQUIRED SHOP CAMBER.

NOTES

① FOR NOTES SEE SHT. 33/45.

DALTON • DALTON • NEWPORT	
CLEVELAND, OHIO AKRON, OHIO	
33/45	
TABLE OF DEFLECTION AND CAMBER	
AKRON INNERBELT OVER BOWERY STREET, OHIO CANAL, WEST EXPRESSWAY AND RUSSELL AVENUE	
BR. NO. SUM-59-0000	
AKRON OHIO SUMMIT COUNTY	
STA. 114+52.10 TO STA. 129+52.60	
DESIGNED	DRAWN
TRACED	CHECKED
DATE	REVISOR
RER	M.A.B.
ALH	JAL
12-20-72	

AKRON INNERBELT
SUM - 59 - 0.00

UNIT No 4

LOCATION	BEAM A					BEAM B					BEAM C					BEAM D					BEAM E				
	(a)	(b)	(c)	(d)	(e)	(a)	(b)	(c)	(d)	(e)	(a)	(b)	(c)	(d)	(e)	(a)	(b)	(c)	(d)	(e)	(a)	(b)	(c)	(d)	(e)
⊕ BRG. UNIT 4 @ P-10																									
1/8 PT.	.0362	.2500	1.0750	.9644	1.8257	.0350	.2775	.9000	.9701	1.6826	.0417	.3432	.8675	.9756	1.7281	.0332	.3090	.9925	.9806	1.8103	.0325	.3435	.9525	.9854	1.8139
1/4 PT.	.0705	.4770	1.4600	.7961	2.8036	.0665	.5080	1.9200	.8057	2.8002	.0605	.5395	1.4400	.8151	2.8551	.0500	.5390	1.6000	.8239	3.0129	.0460	.5860	1.5400	.8323	3.0043
3/8 PT.	.0792	.5630	1.3950	.9952	3.0325	.0627	.5630	1.5350	1.0073	3.1680	.0582	.6052	1.5900	1.0189	3.2224	.0397	.6210	1.6600	1.0298	3.3506	.0242	.6170	1.6775	1.0905	3.3592
1/2 PT.	.0480	.4690	1.0100	1.0615	2.5885	.0330	.9840	1.3500	1.0744	2.9414	.0240	.9850	1.2300	1.0867	2.8257	-.0010	.9850	1.2800	1.0985	2.8625	-.0170	.9850	1.5000	1.1099	3.0779
*	.0074	.2857	.5612	.9956	1.8498	-.0070	.2850	.7350	1.0073	2.0203	-.0260	.2715	.7250	1.0189	1.9894	-.0465	.1760	.3750	1.0298	1.5343	-.0652	.2380	.4550	1.0405	1.6682
**	.0072	.2850	.5600	.9952	1.8475	-.0086	.2735	.7069	.9999	1.9717	-.0303	.2492	.6685	1.0034	1.8908	-.0525	.1417	.3312	1.0061	1.4266	-.0728	.1930	.3871	1.0084	1.5157
3/4 PT.	-.0290	.0775	.1600	.7961	1.0046	-.0370	.0775	.2100	.8058	1.0563	-.0590	.0730	.2050	.8151	1.0341	-.0770	.0080	.1050	.8239	.8599	-.0945	.0075	.1300	.8323	.8753
7/8 PT.	-.0337	-.0445	----	.4644	.3862	-.0482	-.0475	----	.9700	.3743	-.0522	-.0355	----	.9756	.3878	-.0655	-.0662	----	.9806	.3488	-.0825	-.1172	----	.9854	.2858
⊕ PIER P-11																									
1/8 PT.	.1245	.3245	.3250	.8034	1.5774	.1242	.3635	.2650	.7777	1.5305	.1975	.9062	.3350	.7534	1.6422	.1597	.9637	.3725	.7306	1.7266	.1972	.5075	.3750	.7092	1.7890
⊕ SPL. N ^o 13	.2367	.6493	.5271	1.1833	2.5964	.1988	.6681	.9387	1.1481	2.4537	.2681	.7502	.5421	1.1149	2.6751	.2972	.8472	.6031	1.0834	2.8310	.3501	.9751	.6449	1.0533	2.9935
1/4 PT.	.3085	.8675	.7150	1.3772	3.2682	.2905	.8985	.6050	1.3330	3.1270	.3450	.9950	.7250	1.2915	3.3565	.3765	1.0790	.7700	1.2525	3.4780	.4400	1.2190	.7800	1.2155	3.6545
3/8 PT.	.9647	1.3520	1.1500	1.7214	4.6882	.9875	1.4687	.9975	1.6664	4.6201	.5327	1.5792	1.1675	1.6145	4.8940	.5685	1.6680	1.1825	1.5655	4.9845	.6967	1.8240	1.1850	1.5195	5.1753
1/2 PT.	.5670	1.7190	1.9200	1.8362	5.5422	.5980	1.8280	1.4600	1.7774	5.6634	.6390	1.9370	1.4400	1.7220	5.7380	.6920	2.0630	1.4600	1.6699	5.8849	.7730	2.2650	1.4400	1.6208	6.0988
5/8 PT.	.5627	1.7152	1.9250	1.7216	5.4246	.5925	1.8162	1.2500	1.6664	5.3251	.6277	1.9685	1.4275	1.6145	5.6382	.6892	2.0467	1.4000	1.5657	5.6967	.7550	2.2512	1.4275	1.5195	5.9532
3/4 PT.	.9560	1.3910	1.0900	1.3712	4.3142	.9880	1.4920	1.0450	1.3329	4.3579	.5125	1.5860	1.1800	1.2915	4.5700	.5630	1.7275	1.1950	1.2525	4.7380	.6130	1.8315	1.1800	1.2157	4.8402
7/8 PT.	.2562	.8320	.6350	.8034	2.5267	.2912	.8872	.6225	.7776	2.5786	.2937	.9110	.6850	.7534	2.6431	.3210	.9972	.6975	.7305	2.7462	.3577	1.0892	.7000	.7090	2.8560
⊕ BRG. @ ABUT. A-2																									

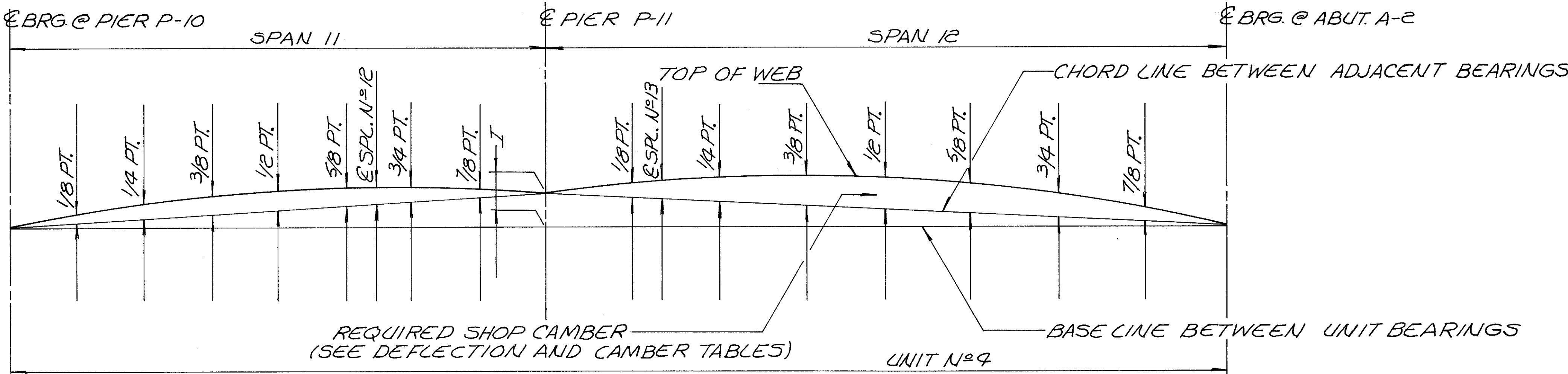
* DENOTES ⊕ SPL. N^o 12 BM. "A" OR 5/8 PT. BEAMS "B" THRU "E"
** DENOTES 5/8 PT. BEAM "A" OR ⊕ SPL. N^o 12 BEAMS "B" THRU "E"

NOTES

① FOR NOTES SEE SHT. 35/45.

LEGEND

- (a) DEFLECTION DUE TO WEIGHT OF STEEL.
(b) DEFLECTION DUE TO REMAINING DEAD LOAD.
(c) ADJUSTMENT REQUIRED FOR HEAT CURVING.
(d) ADJUSTMENT REQUIRED FOR VERTICAL CURVE.
(e) REQUIRED SHOP CAMBER.



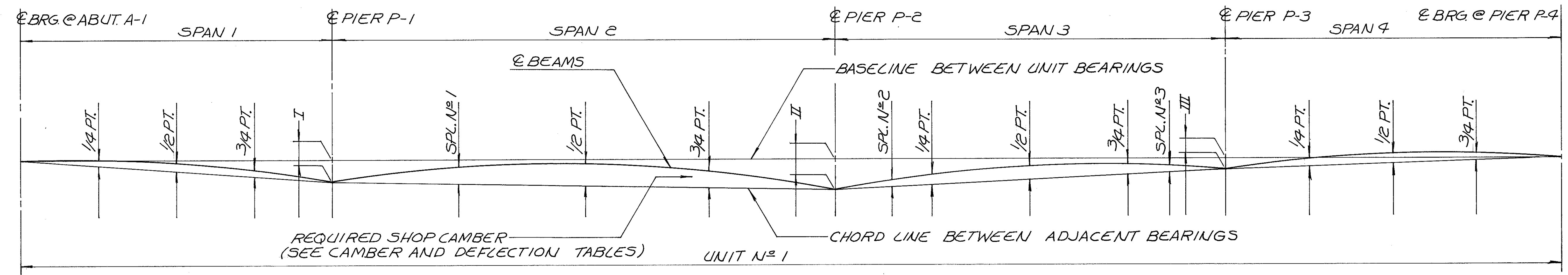
LAYOUT DIAGRAM OFFSETS	
BEAM OR GIDER	I
A	5 7/16"
B	5 1/2"
C	5 1/2"
D	5 7/16"
E	5 3/8"

LAYOUT DIAGRAM UNIT No 4

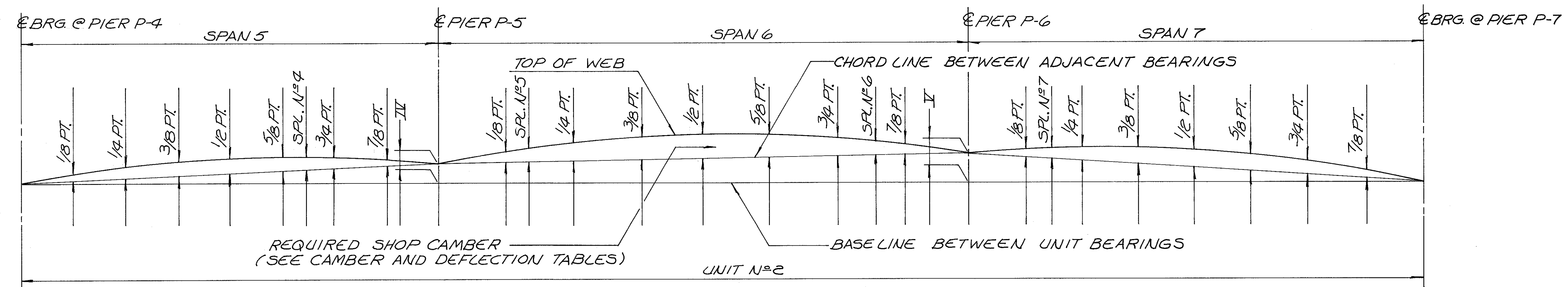
DALTON • DALTON • NEWPORT	
CLEVELAND, OHIO	AKRON, OHIO
TABLE OF DEFLECTION AND CAMBER	
AKRON INNERBELT OVER BOWERY STREET, OHIO CANAL, WEST EXPRESSWAY AND RUSSELL AVENUE	
BR. NO. SUM-59-0000	
AKRON OHIO SUMMIT COUNTY	
STA. 114 + 52.10 TO STA. 129 + 52.60	
DESIGNED	DRAWN
TRACED	CHECKED
REVISION	DATE
RER	MAB.
12-20-84	

AKRON INNERBELT
SUM - 59 - 0.00

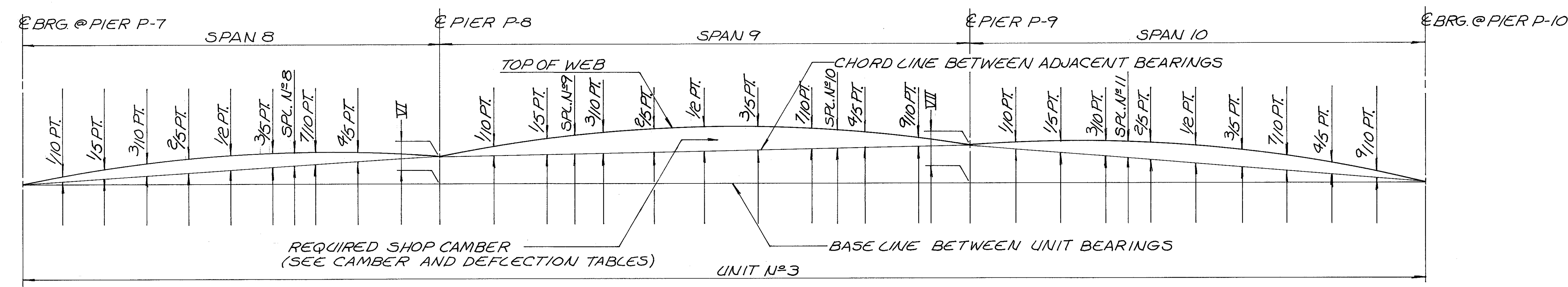
- NOTES
- ① FOR FRAMING PLANS AND GIRDER DETAILS, SEE SHTS. 24/45 THRU 31/45.
 - ② FOR DEFLECTION AND CAMBER TABLES, SEE SHTS. 32/45 THRU 34/45.
 - ③ A POSITIVE CAMBER VALUE MEANS THE CAMBER ABOVE AND A NEGATIVE CAMBER VALUE MEANS THE CAMBER BELOW THE CHORD BETWEEN THE ADJACENT BEARINGS IN THAT SPAN.
 - ④ ALL DEFLECTIONS ARE GIVEN IN DECIMALS OF AN INCH.
 - ⑤ SEE STRUCTURE GENERAL NOTES FOR HEAT CURVING OF BEAMS AND GIRDERS.



LAYOUT DIAGRAM UNIT N°1



LAYOUT DIAGRAM UNIT N°2



LAYOUT DIAGRAM UNIT N°3

LAYOUT DIAGRAM OFFSETS							
BEAM OR GIDER	I	II	III	IV	V	VI	VII
A	7/8"	3/8"	1/8"	11/16"	1 3/16"	2'-2 3/16"	2'-6 7/8"
B	1 3/8"	7/8"	3/8"	11/16"	1 1/4"	2'-5 5/8"	2'-7 3/16"
C	1 5/16"	1 7/16"	5/8"	11/16"	1 5/16"	2'-8 5/16"	2'-7 3/16"
D	2 7/16"	2 1/16"	5/8"	11/16"	1 7/16"	2'-10 7/8"	2'-7 1/16"
E	2 3/4"	2 9/16"	1 1/8"	3/4"	1 11/16"	3'-0 1/16"	2'-6 1/4"

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CLEVELAND, OHIO AKRON, OHIO

LAYOUT AND CAMBER DIAGRAMS

AKRON INNERBELT OVER BOWERY STREET,
OHIO CANAL, WEST EXPRESSWAY
AND RUSSELL AVENUE

BR. NO. SUM-59-0000

AKRON OHIO
SUMMIT COUNTY

STA. 114 + 52.10 TO STA. 129 + 52.60

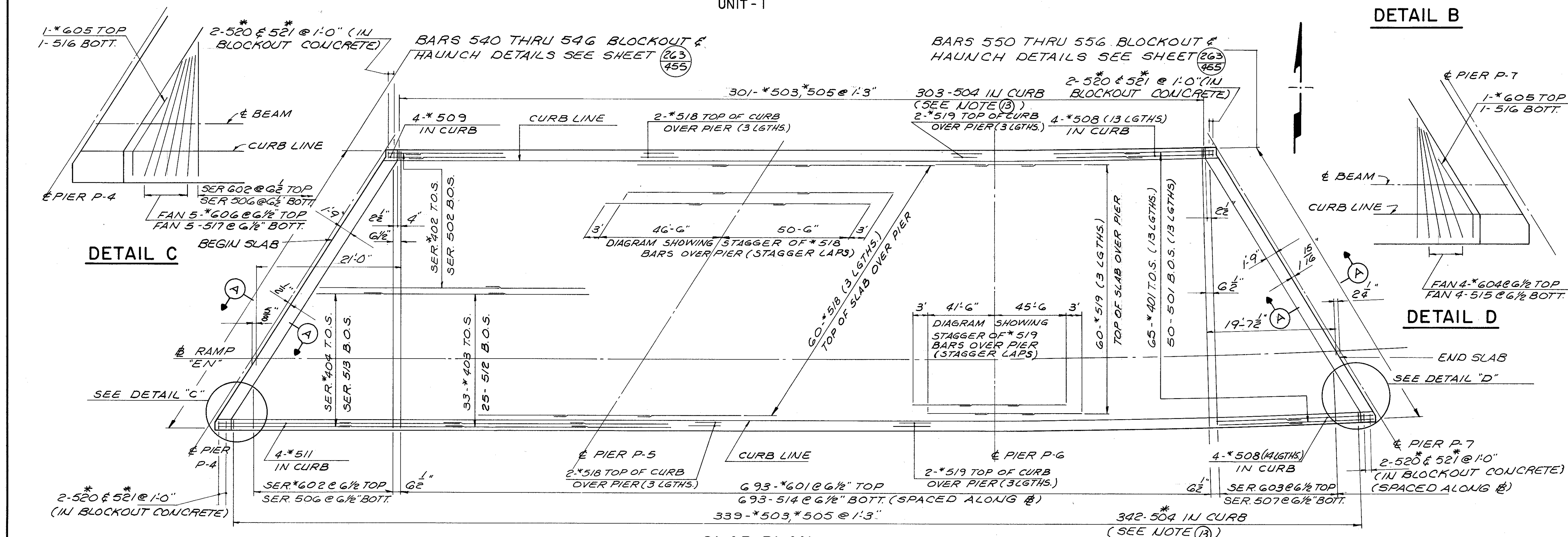
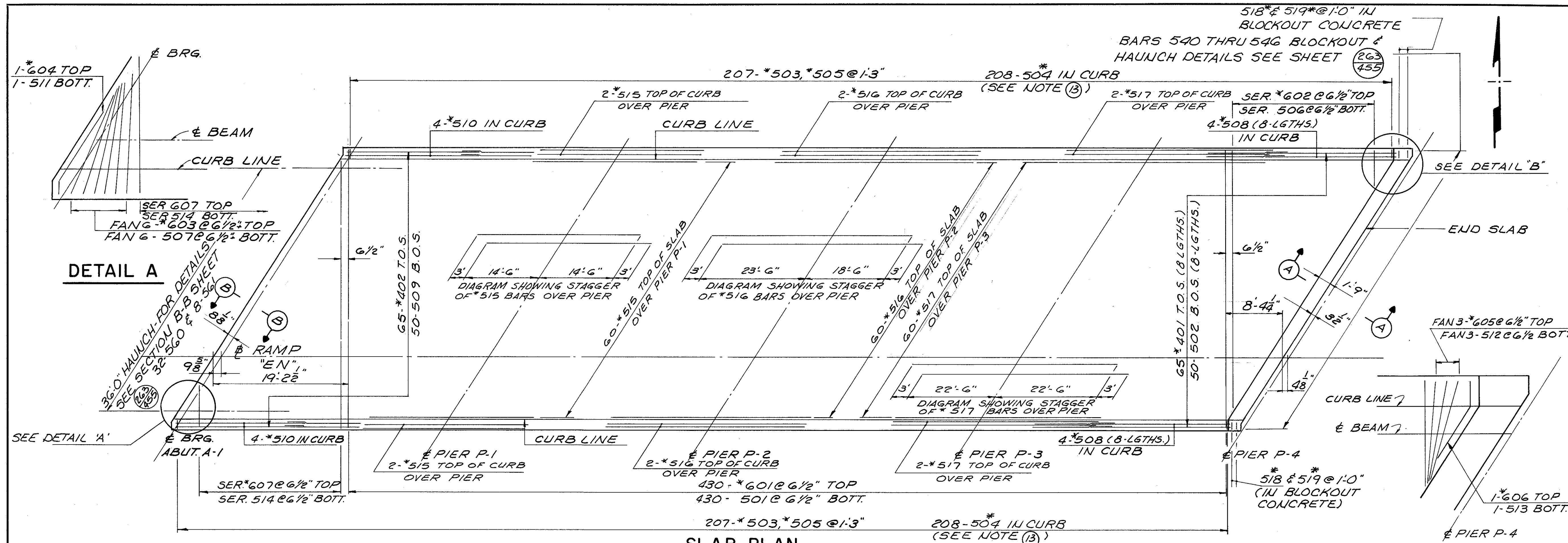
DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE
RER	M.A.B.		A.L.H.		12-20-82

F.H.W.A. REG.	STATE	PROJECT
5	OHIO	

308
455

AKRON INNERBELT
SUM - 59 - 0.00

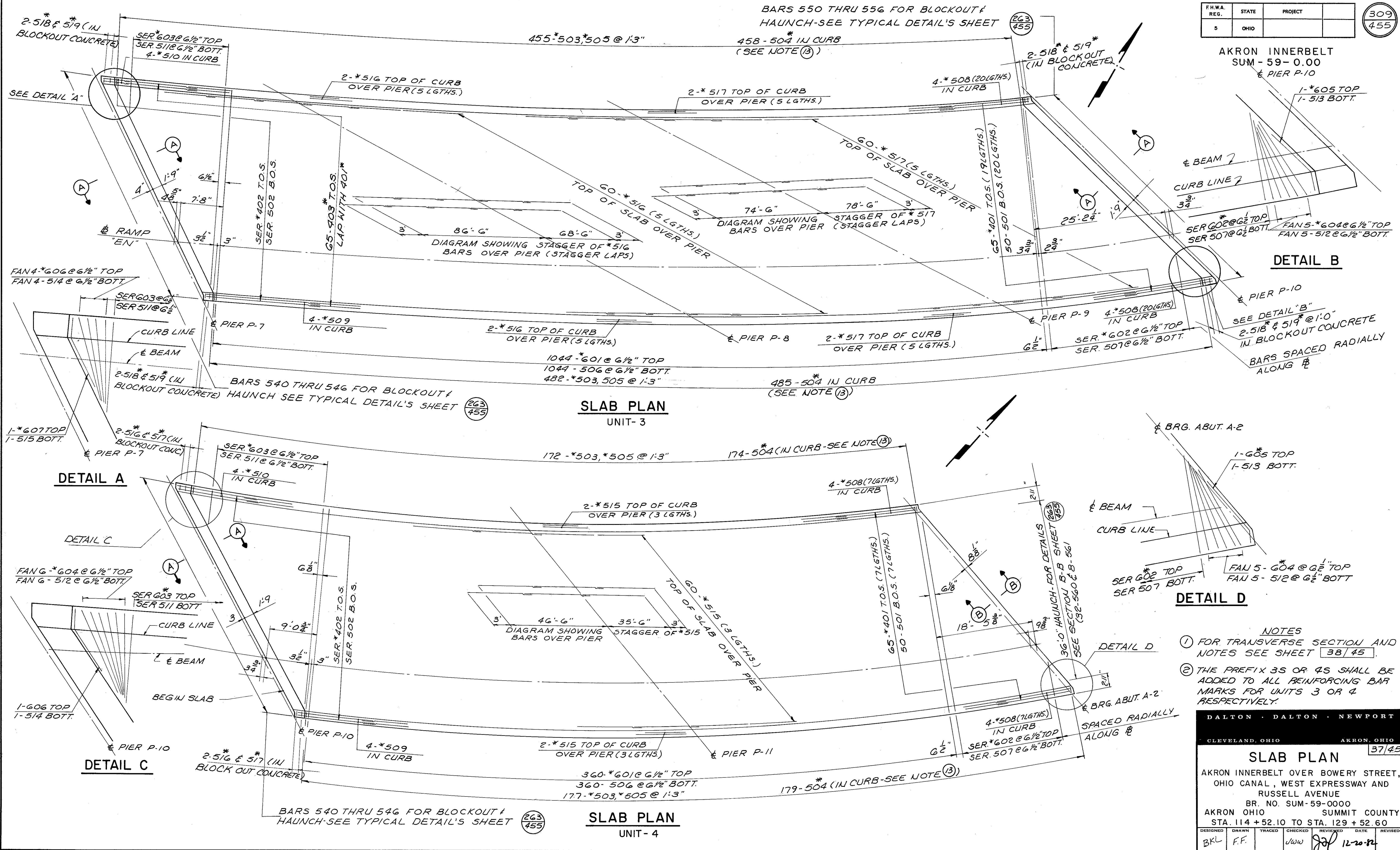
- NOTE**
- FOR TRANSVERSE SECTION AND NOTES SEE SHEET 38/45
 - THE PREFIX IS OR 2S SHALL BE ADDED TO ALL REINFORCING BAR MARKS FOR UNITS 1 OR 2 RESPECTIVELY

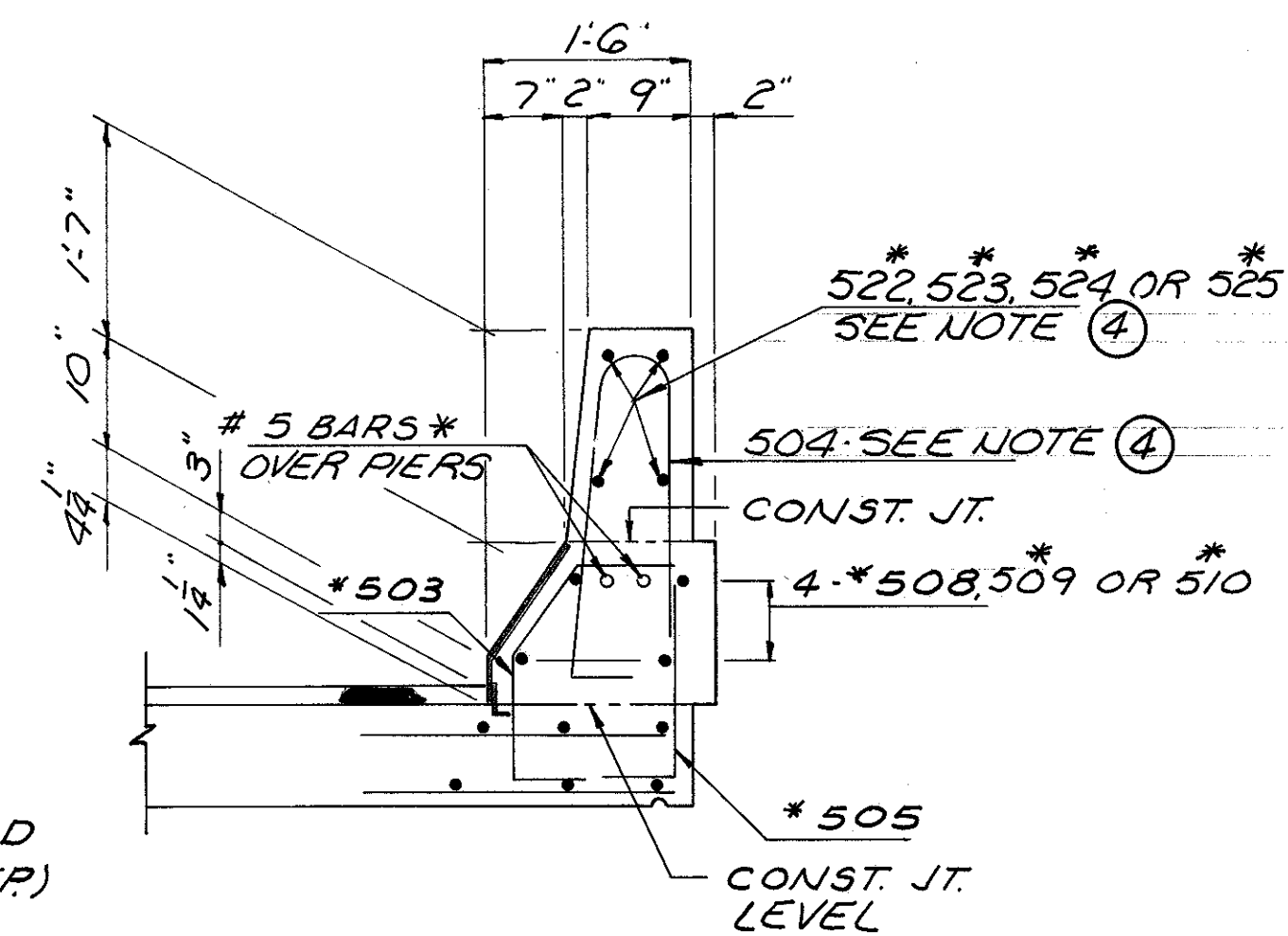


DETAIL B

DETAIL D

DALTON · DALTON · NEWPORT					
CLEVELAND, OHIO			AKRON, OHIO		
36/45					
SLAB PLAN					
AKRON INNERBELT OVER BOWERY STREET, OHIO CANAL, WEST EXPRESSWAY AND RUSSELL AVENUE BR. NO. SUM-59-0000 AKRON OHIO SUMMIT COUNTY STA. 114 + 52.10 TO STA. 129 + 52.60					
DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE
BKL	F.F.		JWW	JSP	12-20-82





FOR ADDITIONAL DETAIL OF
CURB PLATE SEE SHEET $\frac{261}{455}$

F.H.W.A. REG.	STATE	PROJECT	
5	OHIO		



AKRON INNERBELT
SUM - 59 - 0.00
NOTES

- ① THE DISTANCE SHOWN FROM TOP OF DECK SLAB TO TOP OF STEEL BEAM IS THE DESIGN DIMENSION. THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED ON THIS DIMENSION, EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE BEAM MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE.
- ② THIS IS THE DESIGN DIMENSION. THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED UPON THIS DIMENSION, EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE GIRDER MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE. DEDUCTION SHALL BE MADE FOR VOLUME OF ENCASED STEEL PLATES AS PER 511.18.
- ③ A HAUNCH WIDTH OF 9" SHALL BE USED FOR COMPUTING QUANTITY OF CONCRETE. HOWEVER THE HAUNCH WIDTH MAY VARY BETWEEN 6" AND 12" (PROVIDED THAT THE SLOPE SHALL NOT BE MORE THAN 1:4 FOR A HAUNCH LESS THAN 9" IN WIDTH).
- ④ FOR SPACING & LOCATION OF REINFORCING SEE GENERAL PLAN SHEET 8 / 45.
- ⑤ FOR FORMING ELEVATION TABLE SEE SHEET 39/45.
- ⑥ TRANSVERSE AND LONGITUDINAL REINFORCEMENT SHALL BE FIELD BENT AS REQUIRED. PAYMENT SHALL BE INCLUDED WITH ITEM 509, REINFORCING STEEL.
- ⑦ ALL REINFORCING BARS SHOWN THUS * ARE EPOXY COATED.
- ⑧ PROFILE GRADE IS GIVEN TO TOP OF FINISHED PAVEMENT.
- ⑨ FOR LOCATION OF LIGHT STANDARD SUPPORTS, SEE GENERAL PLAN SHEETS 5 / 45 THRU 8 / 45.
- ⑩ FOR ELECTRICAL CONDUIT ON BRIDGE, SEE LIGHTING PLANS.
- ⑪ FOR SCUPPER LOCATIONS SEE GENERAL PLAN SHEET 5 / 45 THRU 8 / 45.
FOR SCUPPER DETAILS SEE SHEET (26) / 45.

DIMENSIONS SHOWN ARE PERPENDICULAR TO
THE ϕ OF GIRDERS.

(12) FOR SECTIONS 'A-A' & 'B-B' SEE SHEET
 $\frac{263}{455}$

⑬ FOR CROSSFRAME TYPE AND
LOCATIONS SEE FRAMING PLANS,
FOR CROSSFRAME DETAILS SEE
SHEET (E62
435)

DALTON · DALTON · NEWPORT

CLEVELAND, OHIO

AKRON, OHIO

38/45

TRANSVERSE SECTION

AKRON INNERBELT OVER BOWERY STREET,
OHIO CANAL, WEST EXPRESSWAY
AND RUSSELL AVENUE

BR. NO. SUM-59-0000

AKRON OHIO

SUMMIT COUNTY

STA. 114 + 52.10 TO STA. 129 + 52.60

DRAWN	CHECKED	REVIEWED	DATE	REVISED
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BKL

F.F.

W.W.

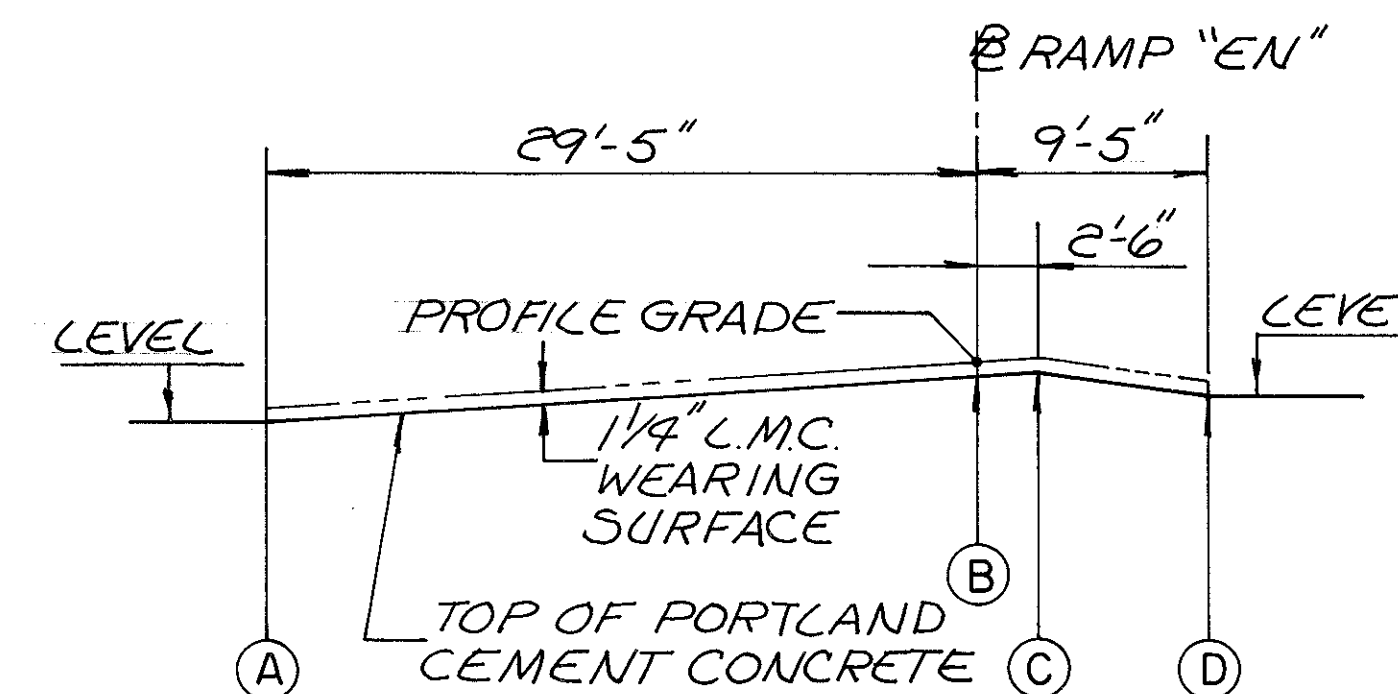
8/27 12-20-71

SCREED ELEVATIONS UNIT 1				
LOCATION	(A)	(B)	(C)	(D)
± ABUT. A-1	987.936	986.805	986.711	986.272
1/4 PT.	988.355	987.199	987.103	986.658
1/2 PT.	988.779	987.599	987.501	987.050
3/4 PT.	989.208	988.004	987.904	987.447
± PIER P-1	989.652	988.423	988.321	987.859
1/4 PT.	990.332	989.065	988.960	988.490
1/2 PT.	990.962	989.718	989.610	989.132
3/4 PT.	991.582	990.369	990.263	989.784
± PIER P-2	992.219	991.038	990.934	990.454
1/4 PT.	993.190	992.052	991.952	991.472
1/2 PT.	994.125	993.030	992.934	992.454
3/4 PT.	994.956	993.905	993.812	993.333
± PIER P-3	995.773	994.765	994.676	994.197
1/4 PT.	996.512	995.539	995.453	994.974
1/2 PT.	997.264	996.326	996.243	995.764
3/4 PT.	997.967	997.064	996.984	996.505
± PIER P-4	998.623	997.755	997.678	997.199

SCREED ELEVATIONS UNIT 2				
LOCATION	(A)	(B)	(C)	(D)
± PIER P-4	998.733	997.871	997.794	997.315
1/8 PT.	999.545	998.723	998.649	998.153
1/4 PT.	1000.334	999.549	999.479	998.970
3/8 PT.	1001.089	1000.339	1000.271	999.755
1/2 PT.	1001.807	1001.088	1001.023	1000.507
5/8 PT.	1002.488	1001.797	1001.735	1001.226
3/4 PT.	1003.150	1002.490	1002.432	1001.933
7/8 PT.	1003.815	1003.191	1003.136	1002.648
± PIER P-5	1004.500	1003.921	1003.869	1003.389
1/8 PT.	1005.248	1004.830	1004.790	1004.341
1/4 PT.	1006.022	1005.775	1005.746	1005.324
3/8 PT.	1006.803	1006.724	1006.708	1006.309
1/2 PT.	1007.575	1007.647	1007.642	1007.266
5/8 PT.	1008.322	1008.519	1008.527	1008.173
3/4 PT.	1009.053	1009.355	1009.375	1009.042
7/8 PT.	1009.759	1010.180	1010.214	1009.903
± PIER P-6	1010.476	1011.028	1011.075	1010.787
1/8 PT.	1010.957	1011.636	1011.695	1011.429
1/4 PT.	1011.446	1012.264	1012.333	1012.090
3/8 PT.	1011.939	1012.899	1012.980	1012.760
1/2 PT.	1012.430	1013.526	1013.618	1013.418
5/8 PT.	1012.906	1014.122	1014.224	1014.043
3/4 PT.	1013.363	1014.685	1014.797	1014.633
7/8 PT.	1013.802	1015.217	1015.338	1015.189
± PIER P-7	1014.225	1015.723	1015.853	1015.718

SCREED ELEVATIONS UNIT 3				
LOCATION	(A)	(B)	(C)	(D)
± PIER P-7	1014.323	1015.823	1015.953	1015.817
1/10 PT.	1014.888	1016.651	1016.797	1016.718
1/5 PT.	1015.430	1017.426	1017.588	1017.559
3/10 PT.	1015.944	1018.147	1018.322	1018.320
2/5 PT.	1016.425	1018.799	1018.987	1018.998
1/2 PT.	1016.873	1019.386	1019.587	1019.594
3/5 PT.	1017.297	1019.919	1020.130	1020.133
7/10 PT.	1017.704	1020.425	1020.646	1020.647
4/5 PT.	1018.099	1020.909	1021.138	1021.143
9/10 PT.	1018.484	1021.383	1021.620	1021.633
± PIER P-8	1018.862	1021.855	1022.098	1022.127
1/10 PT.	1019.531	1022.482	1022.720	1022.737
1/5 PT.	1020.179	1023.093	1023.327	1023.343
3/10 PT.	1020.803	1023.673	1023.902	1023.899
2/5 PT.	1021.370	1024.180	1024.405	1024.381
1/2 PT.	1021.858	1024.593	1024.810	1024.739
3/5 PT.	1022.248	1024.898	1025.106	1024.987
7/10 PT.	1022.546	1025.108	1025.307	1025.137
4/5 PT.	1022.821	1025.240	1025.429	1025.228
9/10 PT.	1023.051	1025.350	1025.530	1025.312
± PIER P-9	1023.256	1025.453	1025.624	1025.392
1/10 PT.	1023.422	1025.530	1025.696	1025.446
1/5 PT.	1023.586	1025.616	1025.775	1025.508
3/10 PT.	1023.753	1025.695	1025.849	1025.566
2/5 PT.	1023.908	1025.761	1025.911	1025.618
1/2 PT.	1024.037	1025.801	1025.947	1025.649
3/5 PT.	1024.111	1025.804	1025.947	1025.641
7/10 PT.	1024.124	1025.761	1025.902	1025.588
4/5 PT.	1024.066	1025.673	1025.812	1025.495
9/10 PT.	1023.940	1025.541	1025.678	1025.358
± PIER P-10	1023.766	1025.377	1025.513	1025.192

SCREED ELEVATIONS UNIT 4				
LOCATION	(A)	(B)	(C)	(D)
± PIER P-10	1023.753	1025.361	1025.497	1025.175
1/8 PT.	1023.754	1025.341	1025.475	1025.150
1/4 PT.	1023.714	1025.288	1025.420	1025.090
3/8 PT.	1023.632	1025.188	1025.318	1024.982
1/2 PT.	1023.510	1025.040	1025.168	1024.835
5/8 PT.	1023.368	1024.844	1024.970	1024.632
3/4 PT.	1023.214	1024.675	1024.799	1024.448
7/8 PT.	1023.067	1024.509	1024.631	1024.269
± PIER P-11	1022.929	1024.347	1024.468	1024.104
1/8 PT.	1022.765	1024.181	1024.300	1023.937
1/4 PT.	1022.604	1024.010	1024.128	1023.771
3/8 PT.	1022.420	1023.821	1023.938	1023.579
1/2 PT.	1022.200	1023.592	1023.709	1023.350
5/8 PT.	1021.919	1023.298	1023.414	1023.056
3/4 PT.	1021.578	1022.956	1023.071	1022.701
7/8 PT.	1021.193	1022.549	1022.664	1022.293
± ABUT. A-2	1020.759	1022.095	1022.209	1021.830



KEY TRANSVERSE SECTION

- (A) LEFT GUTTER LINE
- (B) BASE LINE RAMP "EN"
- (C) BREAKLINE
- (D) RIGHT GUTTER LINE

F.H.W.A. REG.	STATE	PROJECT
5	OHIO	

311
455

AKRON INNERBELT
SUM-59-0.00

NOTES

- ① (A) THRU (D) ELEVATIONS SHOWN ARE TOP OF CONCRETE SLAB ELEVATIONS WHICH ARE REQUIRED BEFORE THE CONCRETE IS PLACED. PROPER ALLOWANCE HAS BEEN MADE FOR DEAD LOAD DEFLECTIONS CAUSED BY THE WEIGHT OF THE CONCRETE AND THE 1 1/4" LATEX MODIFIED CONCRETE WEARING SURFACE.
- ② THE SCREED ELEVATIONS GIVEN FOR UNIT N°S 3 AND 4 REFLECT THE ADJUSTMENT REQUIRED DUE TO HEAT CURVING OF THE GIRDERS. IF THE CONTRACTOR ELECTS NOT TO HEAT CURVE THE GIRDERS, THE SCREED ELEVATIONS WILL HAVE TO BE MODIFIED. SEE STRUCTURE GENERAL NOTES FOR ADDITIONAL INFORMATION.

Superseded by sheet

311
455

DALTON	DALTON	NEWPORT
CLEVELAND, OHIO		AKRON, OHIO

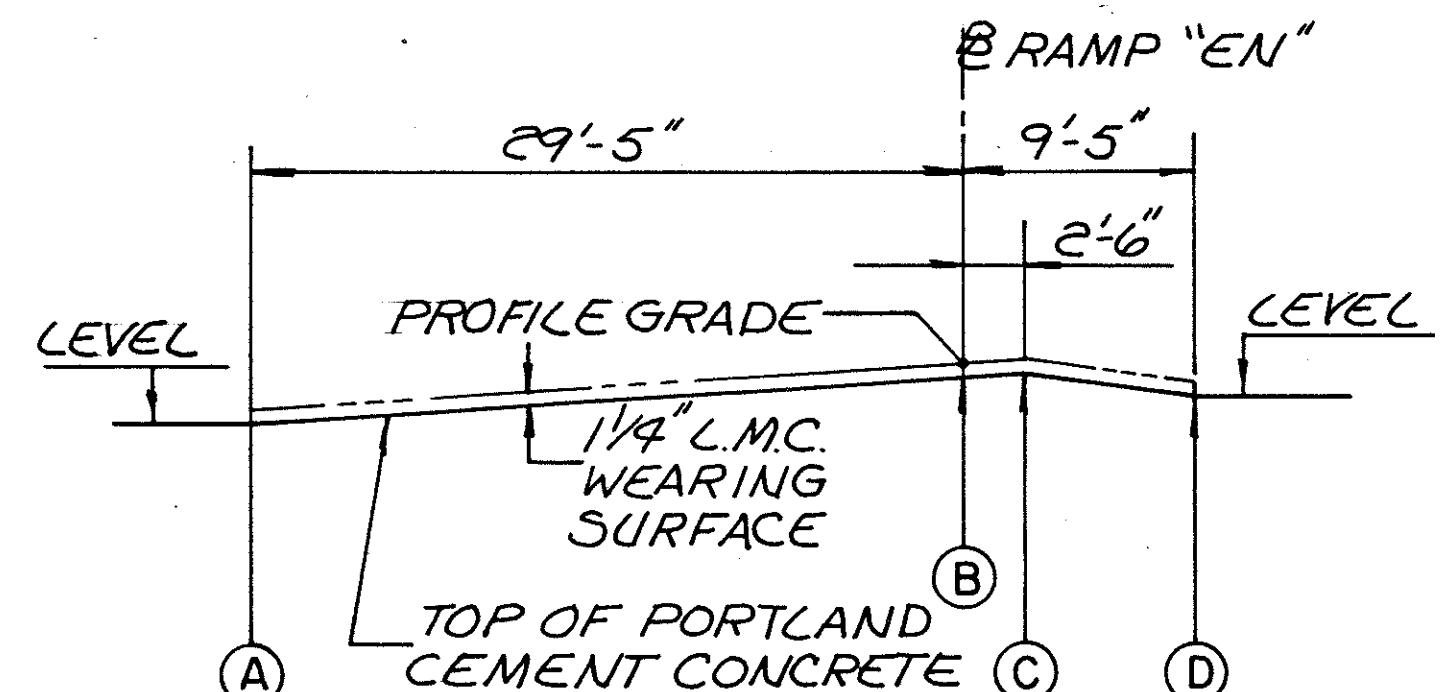
SCREED ELEVATIONS
AKRON INNERBELT OVER BOWERY STREET,
OHIO CANAL, WEST EXPRESSWAY
AND RUSSELL AVENUE
BR. NO. SUM-59-0000
AKRON OHIO SUMMIT COUNTY
STA. 114+52.10 TO STA. 129+52.60

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED
RER	MAB		A.L.H.	88	12-20-82	

AKRON INNERBELT
SUM - 59 - 0.00

NOTES

- ① (A) THRU (D) ELEVATIONS SHOWN ARE TOP OF CONCRETE SLAB ELEVATIONS WHICH ARE REQUIRED BEFORE THE CONCRETE IS PLACED. PROPER ALLOWANCE HAS BEEN MADE FOR DEAD LOAD DEFLECTIONS CAUSED BY THE WEIGHT OF THE CONCRETE AND THE 1/4" LATEX MODIFIED CONCRETE WEARING SURFACE.
- ② THE SCREED ELEVATIONS GIVEN FOR UNIT N°S 3 AND 4 REFLECT THE ADJUSTMENT REQUIRED DUE TO HEAT CURVING OF THE GIRDERS. IF THE CONTRACTOR ELECTS NOT TO HEAT CURVE THE GIRDERS, THE SCREED ELEVATIONS WILL HAVE TO BE MODIFIED. SEE STRUCTURE GENERAL NOTES FOR ADDITIONAL INFORMATION.



KEY TRANSVERSE SECTION

- (A) LEFT GUTTER LINE
(B) BASE LINE RAMP "EN"
(C) BREAKLINE
(D) RIGHT GUTTER LINE

SCREED ELEVATIONS UNIT 1				
LOCATION	(A)	(B)	(C)	(D)
ABUT. A-1	987.936	986.805	986.711	986.272
1/4 PT.	988.355	987.199	987.103	986.658
1/2 PT.	988.779	987.599	987.501	987.050
3/4 PT.	989.208	988.004	987.904	987.447
PIER P-1	989.652	988.423	988.321	987.859
1/4 PT.	990.332	989.065	988.960	988.490
1/2 PT.	990.962	989.718	989.610	989.132
3/4 PT.	991.582	990.369	990.263	989.784
PIER P-2	992.219	991.038	990.934	990.454
1/4 PT.	993.190	992.052	991.952	991.472
1/2 PT.	994.125	993.030	992.934	992.454
3/4 PT.	994.956	993.905	993.812	993.333
PIER P-3	995.773	994.765	994.676	994.197
1/4 PT.	996.512	995.539	995.453	994.974
1/2 PT.	997.264	996.326	996.243	995.764
3/4 PT.	997.967	997.064	996.984	996.505
PIER P-4	998.623	997.755	997.678	997.199

SCREED ELEVATIONS UNIT 2				
LOCATION	(A)	(B)	(C)	(D)
PIER P-4	998.733	997.871	997.794	997.315
1/8 PT.	999.540	998.764	998.693	998.207
1/4 PT.	1000.324	999.628	999.562	999.074
3/8 PT.	1001.077	1000.451	1000.390	999.903
1/2 PT.	1001.793	1001.227	1001.172	1000.691
5/8 PT.	1002.474	1001.957	1001.908	1001.438
3/4 PT.	1003.138	1002.667	1002.622	1002.168
7/8 PT.	1003.804	1003.381	1003.342	1002.902
PIER P-5	1004.491	1004.125	1004.091	1003.662
1/8 PT.	1005.241	1004.995	1004.971	1004.562
1/4 PT.	1006.017	1005.900	1005.886	1005.494
3/8 PT.	1006.801	1006.814	1006.810	1006.433
1/2 PT.	1007.574	1007.708	1007.713	1007.351
5/8 PT.	1008.322	1008.560	1008.575	1008.230
3/4 PT.	1009.051	1009.382	1009.407	1009.080
7/8 PT.	1009.760	1010.195	1010.231	1009.923
PIER P-6	1010.476	1011.028	1011.075	1010.787
1/8 PT.	1010.955	1011.641	1011.699	1011.435
1/4 PT.	1011.443	1012.270	1012.340	1012.099
3/8 PT.	1011.935	1012.906	1012.987	1012.770
1/2 PT.	1012.425	1013.532	1013.624	1013.427
5/8 PT.	1012.902	1014.127	1014.228	1014.050
3/4 PT.	1013.360	1014.688	1014.800	1014.638
7/8 PT.	1013.800	1015.218	1015.339	1015.192
PIER P-7	1014.225	1015.723	1015.853	1015.718

SCREED ELEVATIONS UNIT 3				
LOCATION	(A)	(B)	(C)	(D)
PIER P-7	1014.323	1015.823	1015.953	1015.817
1/10 PT.	1014.888	1016.651	1016.797	1016.718
1/5 PT.	1015.430	1017.426	1017.588	1017.559
3/10 PT.	1015.944	1018.147	1018.322	1018.320
2/5 PT.	1016.425	1018.799	1018.987	1018.998
1/2 PT.	1016.873	1019.386	1019.587	1019.594
3/5 PT.	1017.297	1019.919	1020.130	1020.133
7/10 PT.	1017.704	1020.425	1020.646	1020.647
4/5 PT.	1018.099	1020.909	1021.138	1021.143
9/10 PT.	1018.484	1021.383	1021.620	1021.633
PIER P-8	1018.862	1021.855	1022.098	1022.127
1/10 PT.	1019.531	1022.482	1022.720	1022.737
1/5 PT.	1020.179	1023.093	1023.327	1023.343
3/10 PT.	1020.803	1023.673	1023.902	1023.899
2/5 PT.	1021.370	1024.180	1024.405	1024.381
1/2 PT.	1021.858	1024.593	1024.810	1024.739
3/5 PT.	1022.248	1024.898	1025.106	1024.987
7/10 PT.	1022.546	1025.108	1025.307	1025.137
4/5 PT.	1022.821	1025.240	1025.429	1025.228
9/10 PT.	1023.051	1025.350	1025.530	1025.312
PIER P-9	1023.256	1025.453	1025.624	1025.392
1/10 PT.	1023.422	1025.530	1025.696	1025.446
1/5 PT.	1023.586	1025.616	1025.775	1025.508
3/10 PT.	1023.753	1025.695	1025.849	1025.566
2/5 PT.	1023.908	1025.761	1025.911	1025.618
1/2 PT.	1024.037	1025.801	1025.947	1025.649
3/5 PT.	1024.111	1025.804	1025.947	1025.641
7/10 PT.	1024.124	1025.761	1025.902	1025.588
4/5 PT.	1024.066	1025.673	1025.812	1025.495
9/10 PT.	1023.940	1025.541	1025.678	1025.358
PIER P-10	1023.766	1025.377	1025.513	1025.192

SCREED ELEVATIONS UNIT 4				
LOCATION	(A)	(B)	(C)	(D)
PIER P-10	1023.753	1025.361	1025.497	1025.175
1/8 PT.	1023.754	1025.341	1025.475	1025.150
1/4 PT.	1023.714	1025.288	1025.420	1025.090
3/8 PT.	1023.632	1025.188	1025.318	1024.982
1/2 PT.	1023.510	1025.040	1025.168	1024.835
5/8 PT.	1023.368	1024.844	1024.970	1024.632
3/4 PT.	1023.214	1024.675	1024.799	1024.448
7/8 PT.	1023.067	1024.509	1024.631	1024.269
PIER P-11	1022.929	1024.347	1024.468	1024.104
1/8 PT.	1022.765	1024.181	1024.300	1023.937
1/4 PT.	1022.604	1024.010	1024.128	1023.771
3/8 PT.	1022.420	1023.821	1023.938	1023.579
1/2 PT.	1022.200	1023.592	1023.709	1023.350
5/8 PT.	1021.919	1023.298	1023.414	1023.056
3/4 PT.	1021.578	1022.956	1023.071	1022.701
7/8 PT.	1021.193	1022.549	1022.664	1022.293
ABUT. A-2	1020.759	1022.095	1022.209	1021.830

Supersedes sheet 311
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DALTON • DALTON • NEWPORT	
CLEVELAND, OHIO • AKRON, OHIO	
31/45	
SCREED ELEVATIONS	
AKRON INNERBELT OVER BOWERY STREET, OHIO CANAL, WEST EXPRESSWAY AND RUSSELL AVENUE BR. NO. SUM-59-0000	
AKRON OHIO SUMMIT COUNTY	
STA. 114 + 52.10 TO STA. 129 + 52.60	
DESIGNED RER	DRAWN MAB
TRACED	CHECKED A.L.H.
REVISION DATE 12-20-82	REVISION

AKRON INNERBELT
SUM - 59 - 0.00

FOR NOTES SEE SHEET 45/45.

MARK	Nº REQ'D.	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
ABUTMENT A-I									
1A501	23	19'-7"	ST.						470
1A502	2	5'-11"	12	3'-0"	3'-0"	1'-10"			12
1A503	23	18'-9"	ST.						450
1A504	11	12'-3"	ST.						141
1A505	12	15'-9"	ST.						197
1A506	10	16'-2"	ST.						169
1A507	10	17'-0"	ST.						177
1A508	12	30'-3"	ST.						379
* 1A509	2	30'-0"	ST.						63
1A510	4	16'-2"	ST.						67
1A511	12	11'-6"	ST.						144
1A512	11	9'-1"	ST.						104
1A513	10	6'-9"	ST.						70
1A514	11	5'-8"	12	1'-9"	4'-0"	2'-10"			65
1A515	11	6'-1"	12	2'-2"	4'-0"	2'-10"			70
1A516	8	6'-10"	12	2'-11"	4'-0"	2'-10"			57
1A517	32	6'-5"	2	1'-8"	3'-4"				214
1A518	1	16'-0"	ST.						17
1A519	22	7'-10"	12	2'-0"	5'-11"	4'-2"			180
1A520	6	5'-4"	16	2'-0"	1'-6"	1'-8"	2'-0"		33
1A522	9	3'-11"	12	2'-0"	2'-0"	1'-3"			37
1A523	5	17'-6"	ST.						91
1A524	5	30'-0"	ST.						156
1A525	6	30'-9"	ST.						192
1A526	14	26'-10"	ST.						392
SERIES 1-SET		16'-2"							
OF	OF 18 =	TO	ST					9/16"	311
1A527 18 BAR		17'-0"							
1A528 18		28'-7"	ST.						537
* 1A530 18		5'-11"	23	2'-4"	2'-7"				111
1A531 3		26'-3"	ST.						82
* 1A532 4		5'-7"	23	2'-2"	2'-5"				23
1A533 6		31'-9"	ST.						199
* 1A535 8		26'-10"	ST.						224
1A536 2		6'-6"	16	2'-0"	2'-8"	1'-8"	2'-0"		14
1A537 12		7'-10"	ST.						98
1A538 2		9'-2"	12	3'-10"	5'-4"	2'-0"			19
* 1A539 8		11'-7"	ST.						97
1A540 6		13'-7"	ST.						85
* 1A541 8		4'-6"	ST.						38
1A542 8		5'-3"	ST.						44
1A543 2		11'-4"	1	1'-0"	10'-5"				24
* 1A544 8		2'-8"	6	2'-1"					22
* 1A545 2		17'-6"	ST						37
1A546 8		7'-11"	2	3'-6"	1'-2"				66
* 1A547 8		4'-4"	ST						36
* 1A548 4		5'-9"	3	1'-9"	3'-4"	11"			24
* 1A549 4		3'-3"	36	11"	2'-7"	4"			14
* 1A550 6		6'-4"	4	11"	2'-0"	1'-6"			40
1A601	24	10'-0"	ST.						360
1A602	25	7'-0"	ST.						263

MARK	Nº REQ'D.	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
1A603	17	4'-0"	ST.						102
1A604	48	9'-1"	2	4'-0"	1'-5"				655
1A605	48	6'-1"	2	2'-6"	1'-5"				439
1A606	66	6'-2"	1	1'-1"	5'-3"				611
1A607	1	17'-8"	2	8'-3"	1'-6"				27
1A608	47	10'-6"	ST.						741
SERIES	1-SET	7'-3"							
OF	OF 3 =	TO	ST.					1'-6"	39
1A609	3 BAR	10'-3"							
* 1A610	48	5'-6"	2	2'-5"	1'-0"				397
SERIES	1-SET	8'-7"		7'-11"					
OF	OF 3 =	TO	6	TO				10"	35
1A611	3 BAR	6'-11"		6'-3"					
1A612	20	12'-10"	7	11'-6"					386
SERIES	1-SET	7'-3"							
OF	OF 6 =	TO	ST.					6"	54
1A613	6 BAR	4'-9"							
1A614	31	10'-6"	ST.						489
1A615	6	12'-10"	ST.						116
1A616	5	26'-2"	2	12'-8"	1'-2"				197
* 1A617	4	5'-11"	19	9"	7"	8"	4'-5"		36
1A618	37	12'-7"	7	11'-3"					699
SERIES	1-SET	8'-8"		8'-0"					
OF	OF 3 =	TO	6	TO				1'-6"	46
1A619	3 BAR	11'-8"		11'-0"					
* 1A620	1	3'-11"	19	9"	6"	8"	2'-6"		6
* 1A621	1	3'-9"	19	8"	5"	8"	2'-6"		6
* 1A622	1	3'-9"	19	8"	4"	8"	2'-6"		6
* 1A623	1	3'-8"	19	7"	3"	8"	2'-6"		6
* 1A624	1	3'-7"	19	7"	2"	8"	2'-6"		5
* 1A625	18	5'-0"	19	9"	6"	8"	3'-7"		135
1A626	4	11'-8"	6	11'-0"					70
* 1A627	4	6'-4"	56						38
* 1A801	27	5'-1"	38	2'-10"	1'-5"	1'-0"			366
1A806	18	11'-5"	1	1'-10"	9'-9"				549
1A807	18	8'-4"	1	1'-10"	6'-8"				400
1A808	18	14'-9"	ST.						709
1A810	1	9'-0"	2	2'-10"	3'-8"				24
1A811	11	10'-9"	2	2'-10"	5'-5"				316

MARK	Nº REQ'D.	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
ABUTMENT A- 2									
2A501	31	8'-3"	2	1'-7"	5'-4"				267
2A502	14	8'-11"	1	8"	8'-4"				130
2A503	31	7'-2"	2	2'-0"	3'-5"				232
2A504	36	25'-0"	ST						939
2A505	4	5'-1"	16	2'-0"	1'-3"	1'-9"	2'-0"		21
2A506	2	6'-4"	16	2'-0"	2'-6"	1'-9"	2'-0"		13
2A507	6	3'-11"	12	2'-0"	2'-0"	1'-9"			25
2A508	9	5'-4"	ST.						50
2A509	15	11'-2"	14	2'-4"	3'-0"				175
2A510	4	15'-7"	ST.						65
2A511	2	13'-9"	ST.						29
2A512	6	21'-8"	ST.						136
2A513	10	4'-8"	2	1'-1"	2'-9"				49
* 2A514	8	21'-7"	ST.						180
SERIES 2-SETS		7'-10"		3'-6"					
OF	OF 3 =	TO	2	TO	1'-1"			1'-10"	60
2A515	6 BAR	11'-6"		5'-4"					
2A516	18	6'-6"	ST.						122
2A517	4	14'-0"	ST.						58
2A518	2	8'-7"	ST.						18
2A519	17	9'-11"	1	8"	9'-4"				176
* 2A520	18	5'-7"	23	2'-2"	2'-5"				105
* 2A521	16	4'-8"	ST.						78
* 2A522	16	2'-8"	6	2'-1"					45
2A523	2	9'-7"	ST.						20
2A524	4	12'-4"	ST						51
2A525	16	4'-4"	ST.						72
* 2A526	2	25'-0"	ST.						52
2A527	4	11'-3"	ST.						47
2A528	2	15'-9"	ST.						33
2A529	2	10'-9"	ST.						22
2A530	2	12'-10"	ST.						27
2A531	6	18'-8"	ST.						117
* 2A533	8	16'-9"	ST.						140
2A534	8	8'-9"	12	2'-0"	6'-9"	3'-4"			73
2A535	13	11'-8"	14	2'-7"	3'-0"				158
2A601	14	15'-10"	3	8'-4"	5'-4"	2'-6"			333
2A602	46	6'-11"	2	3'-2"	11"				478
2A603	46	5'-1"	2	2'-0"	1'-5"				351
2A604	46	12'-11"	2	5'-11"	1'-5"				892
2A605	1	27'-6"	2	13'-2"	1'-6"				41
2A606	10	22'-5"	2	10'-10"	1'-1"				337
* 2A607	18	7'-1"	19	9"	6"	8"	5'-8"		192
2A610	8	24'-9"	2	12'-0"	1'-1"				297
2A612	17	16'-11"	3	9'-4"	5'-4"	2'-7"			432
* 2A620	2	3'-11"	19	9"	6"	8"	2'-6"		12
* 2A621	2	3'-9"	19	8"	5"	8"	2'-6"		11
* 2A622	2	3'-9"	19	8"	4"	8"	2'-6"		11
* 2A623	2	3'-8"	19	7"	3"	8"	2'-6"		11
* 2A624	8	3'-7"	19	7"	2"	8"	2'-6"		43

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MARK	Nº REQ'D.	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
2A801	14	27'-3"	ST.						1019
2A802	31	4'-10"	38	2'-7"	1'-5"	1'-0"			400
2A803	2	18'-6"	ST.						99
2A804	4	15'-6"	ST.						166
2A805	2	15'-0"	ST.						80
2A806	4	12'-8"	ST.						135
NON EPOXY COATED = 8245									
EPOXY COATED = 880									
(*) DENOTES BARS TO BE EPOXY COATED									
PIER P-1									
IP501	8	24'-0"	ST.						200
IP502	24	6'-8"	2	2'-2"	2'-7"				167
IP503	24	8'-6"	2	3'-1"	2'-7"				213
IP504	16	7'-8"	2	2'-8"	2'-7"				128
IP601	8	7'-0"	12	3'-0"	4'-0"	6"			84
IP602	7	20'-10"	ST.						219
IP801	14	17'-11"	1	2'-7"	15'-6"				670
IP802	7	38'-2"	ST.						713
IP1001	9	15'-8"	ST.						607
IP1002	9	14'-10"	ST.						574
IP1003	9	14'-2"	ST.						549
IP1004	27	10'-1"	1	1'-10"	8'-6"				1171
IP1005	60	13'-4"	7	10'-6"					3442
NON EPOXY COATED = 8737									
EPOXY COATED = 0									
(*) DENOTES BARS TO BE EPOXY COATED									
TOTAL PIER P-1 = 8737									
PIER P-2									
2P501	8	24'-0"	ST.						200
2P502	24	6'-8"	2	2'-2"	2'-7"				167
2P503	24	8'-6"	2	3'-1"	2'-7"				213
2P504	16	7'-8"	2	2'-8"	2'-7"				128
2P601	8	7'-0"	12	3'-0"	4'-0"	6"			84
2P602	7	20'-10"	ST.						219

MARK	Nº REQ'D.	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
2P801	14	17'-11"	1	2'-7"	15'-6"				670
2P802	7	38'-2"	ST.						713
2P1001	9	18'-1"	ST.						700
2P1002	9	17'-4"	ST.						671
2P1003	9	16'-8"	ST.						645
2P1004	27	10'-1"	1	1'-10"	8'-6"				1171
2P1005	60	13'-4"	7	10'-6"					3442
NON EPOXY COATED = 9023									
EPOXY COATED = 0									
(*) DENOTES BARS TO BE EPOXY COATED									
TOTAL PIER P-2 = 9023									
PIER P-3									
3P501	8	24'-0"	ST.						200
3P502	24	6'-8"	2	2'-2"	2'-7"				167
3P503	24	8'-6"	2	3'-1"	2'-7"				213
3P504	16	7'-8"	2	2'-8"	2'-7"				128
3P601	8	7'-0"	12	3'-0"	4'-0"	6"			84
3P602	7	20'-10"	ST.						219
3P801	14	17'-11"	1	2'-7"	15'-6"				670
3P802	7	38'-2"	ST.						713
3P1001	9	22'-8"	ST.						878
3P1002	9	22'-1"	ST.						855
3P1003	9	21'-4"	ST.						826
3P1004	27	10'-1"	1	1'-10"	8'-6"				1171
3P1005	60	13'-4"	7	10'-6"					3442
NON EPOXY COATED = 9566									
EPOXY COATED = 0									
(*) DENOTES BARS TO BE EPOXY COATED									
TOTAL PIER P-3 = 9566									
PIER P-4									
4P501	20	25'-9"	ST.						537
4P502	48	7'-0"	2	2'-9"	1'-9"				350
4P503	48	7'-10"	2	3'-2"	1'-9"				392
4P504	10	9'-3"	2	2'-8"	4'-2"				96
4P505	28	10'-1"	2	3'-1"	4'-2"				294

MARK	Nº REQ'D.	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
4P506	28	8'-3"	2	2'-2"	4'-2"				241
4P507	10	9'-5"	2	2'-9"	4'-2"				98
4P601	6	24'-11"	ST.						225
4P602	8	8'-0"	12	3'-6"	4'-6"	6"			96
4P901	14	20'-0"	1	2'-11"	17'-4"				952
4P902	7	22'-3"	ST.						530
4P903	7	38'-6"	ST.						916
4P904	14	22'-5"	ST.						1067
4P905	14	21'-11"	ST.						1043
4P906	14	21'-3"	ST.						1012
4P907	42	9'-9"	1	1'-7"	8'-5"				1392
4P1001	30	13'-4"	7	10'-6"					1721
4P1002	24	15'-4"	7	12'-6"					1584
NON EPOXY COATED = 12546									
EPOXY COATED = 0									
(*) DENOTES BARS TO BE EPOXY COATED									
TOTAL PIER P-4 = 12546									
PIER P-5									
5P501	12	24'-3"	ST.						304
5P502	6	9'-4"	2	3'-0"	3'-7"				58
5P503	24	9'-5"	2	3'-7"	2'-6"				236
5P504	24	6'-7"	2	2'-2"	2'-6"				165
5P505	14	10'-6"	2	3'-7"	3'-7"				153
5P506	14	7'-8"	2	2'-2"	3'-7"				112
5P507	6	9'-0"	2	2'-10"	3'-7"				56
5P601	8	7'-6"	12	3'-6"	4'-0"	6"			90
5P901	7	17'-0"	ST.						405
5P1101	14	23'-5"	1	3'-0"	20'-8"				1742
5P1102	7	38'-8"	ST.						1438
5P1103	10	17'-11"	ST.						952
5P1104	10	17'-6"	ST.						930
5P1105	10	16'-11"	ST.						899
5P1106	30	14'-9"	ST.						2351
5P1107	30	9'-9"	1	2'-0"	8'-0"				1554
5P1108	30	7'-9"	1	2'-0"	6'-0"				1235
5P1109	30	17'-8"	7	14'-6"					2816
5P1110	33	15'-8"	7	12'-6"					2747
NON EPOXY COATED = 18243									
EPOXY COATED = 0									
(*) DENOTES BARS TO BE EPOXY COATED									
TOTAL PIER P-5 = 18243									

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MARK	Nº REQ'D.	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
SUPERSTRUCTURE S - I									
15401	520	30'-0"	ST.						10421
15402	65	28'-8"	ST.						1245
15501	430	41'-4"	ST.						18538
15502	400	30'-0"	ST.						12516
15503	414	3'-1"	51	10"	1'-1"	6"	4"		1331
15504	416	5'-8"	23	2'-2"	2'-6"				2459
15505	414	2'-3"	1	10"	1'-6"				972
SERIES	1-SET	39'-6"							
OF	OF 38=	TO	ST.					11 1/16"	888
15506	38BAR	5'-4"							
15507	6	6'-6"	ST.						41
15508	64	30'-0"	ST.						2003
15509	50	31'-4"	ST.						1634
15510	8	32'-11"	ST.						275
15511	1	4'-10"	12	11"	4'-0"	2'-2"			5
15512	3	5'-0"	ST.						16
15513	1	4'-3"	12	1'-4"	3'-0"	1'-8"			4
SERIES	1-SET	40'-1"							
OF	OF 37=	TO	ST.					11 1/8"	902
15514	37BAR	6'-8"							
15515	64	32'-0"	ST.						2136
15516	64	45'-0"	ST.						3004
15517	64	48'-0"	ST.						3204
15518	4	3'-5"	51	10"	1'-5"	6"	4"		14
15519	4	2'-7"	1	10"	1'-10"				11
15522	56	14'-6"	ST.						847
15523	152	7'-0"	ST.						1110
15524	8	12'-0"	ST.						100
15540	52	5'-7"	3	3'-6"	1'-7"	9"			303
15541	52	6'-8"	9	3'-2"	7"				362
15542	52	3'-1"	2	1'-0"	1'-4"				167
15543	52	5'-7"	12	3'-2"	2'-6"	1'-7"			303
15544	32	10'-5"	ST.						348
15545	16	3'-2"	ST.						53
15546	4	25'-6"	ST.						106
15560	32	2'-7"	16	7"	1'-4"	8"	10"		86
15561	8	10'-4"	ST.						86
15570	5	6'-4"	4	11"	2'-0"	1'-6"			33
15601	430	41'-4"	ST.						26696
SERIES	1-SET	39'-6"							
OF	OF 38=	TO	ST.					11 1/16"	1279
15602	38BAR	5'-4"							
15603	6	6'-6"	ST.						59
15604	1	4'-10"	12	11"	4'-0"	2'-2"			7
15605	3	5'-0"	ST.						23
15606	1	4'-10"	12	11"	4'-0"	2'-2"			7
SERIES	1-SET	40'-1"							
OF	OF 37=	TO	ST.					11 1/8"	1299
15607	37BAR	6'-8"							

MARK	Nº REQ'D.	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
* 15670	4	6'-0"	ST.						36
15671	4	6'-0"	ST.						36
* 15672	4	6'-8"	60						40
* 15673	4	2'-2"	1	10"	1'-6"				13
* 15674	4	3'-1"	51	10"	1'-1"	6"	4"		19
NON EPOXY COATED = 36394									
EPOXY COATED = 58643									
(*) DENOTES BARS TO BE EPOXY COATED									
SUPERSTRUCTURE S - 2									
* 25401	845	30'-0"	ST.						16934
SERIES 1-SET 28'-0"									
OF	OF 32=	TO	ST.					8 7/8"	353
25402	32BAR	5'-0"							
* 25403	33	25'-0"	ST.						551
SERIES 1-SET 28'-0"									
OF	OF 33=	TO	ST.					8 5/8"	364
25404	33BAR	5'-0"							
25501	650	30'-0"	ST.						20338
SERIES 1-SET 31'-0"									
OF	OF 25=	TO	ST.					11 1/2"	508
25502	25BAR	8'-0"							
* 25503	640	3'-1"	51	10"	1'-1"	6"	4"		2058
* 25504	645	5'-8"	23	2'-2"	2'-6"				3812
* 25505	640	2'-3"	1	10"	1'-6"				1502
SERIES 1-SET 39'-6"									
OF	OF 36=	TO	ST.					11 3/16"	870
25506	36BAR	6'-10"							
SERIES 1-SET 39'-6"									
OF	OF 37=	TO	ST.					11 3/16"	878
25507	37BAR	6'-0"							
* 25508	108	30'-0"	ST.						3379
* 25509	4	11'-4"	ST.						47
* 25511	4	30'-6"	ST.						127
25512	25	25'-0"	ST.						652
SERIES 1-SET 32'-0"									
OF	OF 25=	TO	ST.					1'-0"	521
25513	25BAR	8'-0"							
25514	693	41'-4"	ST.						29876
25515	4	5'-6"	ST.						23
25516	2	4'-6"	12	1'-4"	3'-3"	1'-8"			9
25517	5	6'-4"	ST.						33
* 25518	192	34'-6"	ST.						6909
* 25519	192	31'-6"	ST.						6308
* 25520	8	3'-5"	51	10"	1'-5"	6"	4"		29
* 25521	8	2'-7"	1	10"	1'-10"				22
* 25522	104	14'-6"	ST.						1573
* 25523	208	7'-0"	ST.						1519

MARK	Nº REQ'D.	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
* 25524	4	10'-2"	ST.						42
* 25525	4	14'-10"	ST.						62
25540	104	5'-7"	3	3'-6"	1'-7"	9"			606
25541	104	6'-9"	9	3'-2"	8"				732
25542	104	3'-1"	2	1'-0"	1'-4"				334
25543	104	5'-7"	12	3'-2"	2'-6"	1'-7"			606
25544	32	10'-4"	ST.						345
25545	16	3'-2"	ST.						53
25546	8	25'-6"	ST.						213
25554	32	10'-3"	ST.						342
25555	16	2'-10"	ST.						47
* 25570	10	6'-4"	4	11"	2'-0"	1'-6"			66
* 25601	693	41'-4"	ST.						43023
SERIES 1-SET 39'-6"									
OF	OF 36=	TO	ST.					11 1/16"	1253
25602	36BAR	6'-10"							
SERIES 1-SET 39'-6"									
OF	OF 37=	TO	ST.					11 3/16"	1264
25603	37BAR	6'-0"							
* 25604	4	5'-6"	ST.						33
* 25605	2	4'-6"	12	1'-4"	3'-3"	1'-8"			14
* 25606	5	6'-4"	ST.						48
* 25670	8	6'-0"	ST.						72
25671	8	6'-0"	ST.						72
* 25672	8	6'-8"	60						80
* 25673	8	2'-2"	1	10"	1'-6"				26
* 25674	8	3'-1"	51	10"	1'-1"	6"	4"		37
NON EPOXY COATED = 57058									
EPOXY COATED = 91507									
(*) DENOTES BARS TO BE EPOXY COATED									
SUPERSTRUCTURE S - 3									
* 35401	1235	30'-0"	ST.						24749
SERIES 1-SET 7'-0"									
OF	OF 65=	TO	ST.					6 3/8"	1042
35402	65BAR	41'-0"							
* 35403	65	18'-6"	ST.						803
35501	1000	30'-0"	ST.						31290
SERIES 1-SET 5'-0"									
OF	OF 50=	TO	ST.					7 1/16"	1069
35502	50BAR	36'-0"							
* 35503	937	3'-1"	51	10"	1'-1"	6"	4"		3013
* 35504	943	5'-8"	23	2'-2"	2'-6"				5573
* 35505	937	2'-1"	1	8"	1'-6"				2036
35506	1044	41'-4"	ST.						45008

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MARK	Nº REQ'D.	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
SERIES	1-SET	39'-6"							
OF	OF 49=	TO	ST.					8 7/16"	1156
35507	49BAR	5'-9"							
* 35508	160	30'-0"	ST.						5006
* 35509	4	40'-0"	ST.						167
* 35510	4	6'-6"	ST.						27
SERIES	1-SET	39'-4"							
OF	OF 37=	TO	ST.					11 1/4"	868
35511	37BAR	5'-8"							
35512	5	5'-3"	ST.						27
35513	1	4'-6"	12	1'-4"	3'-3"	1'-10"			5
35514	4	5'-0"	ST.						21
35515	1	4'-10"	12	1'-4"	3'-6"	1'-9"			5
* 35516	320	32'-11"	ST.						10986
* 35517	320	32'-6"	ST.						10847
* 35518	8	3'-5"	51	10"	1'-5"	6"	4"		29
* 35519	8	2'-7"	1	10"	1'-10"				22
* 35522	160	14'-6"	ST.						2420
* 35523	296	7'-0"	ST.						2161
* 35524	4	9'-4"	ST.						39
* 35525	4	13'-3"	ST.						55
35540	104	5'-7"	3	3'-6"	1'-7"	9"			606
35541	52	6'-9"	9	3'-2"	8"				366
35542	104	3'-1"	2	1'-0"	1'-4"				334
35543	104	5'-6"	12	3'-2"	2'-5"	1'-7"			597
35544	32	10'-2"	ST.						339
35545	16	2'-10"	ST.						47
35546	4	25'-6"	ST.						106
35551	52	7'-1"	9	3'-4"	8"				384
35554	32	10'-10"	ST.						362
35555	16	3'-6"	ST.						58
35556	4	26'-10"	ST.						112
* 35570	20	6'-4"	4	11"	2'-0"	1'-6"			132
* 35601	1044	41'-4"	ST.						64814
* SERIES	1-SET	39'-6"							
OF	OF 49=	TO	ST.					8 7/16"	1665
35602	49BAR	5'-9"							
* SERIES	1-SET	39'-4"							
OF	OF 37=	TO	ST.					11 1/4"	1250
35603	37BAR	5'-8"							
* 35604	5	5'-3"	ST.						39
* 35605	1	4'-9"	12	1'-4"	3'-6"	2'-1"			7
* 35606	4	5'-0"	ST.						30
* 35607	1	4'-9"	12	1'-4"	3'-6"	1'-9"			7
* 35670	16	6'-0"	ST.						144
35671	16	6'-0"	ST.						144
* 35672	16	6'-8"	60						160
* 35673	16	2'-2"	1	10"	1'-6"				52
* 35674	16	3'-1"	51	10"	1'-1"	6"	4"		74

MARK	Nº REQ'D.	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
	NON EPOXY COATED = 82904								
	EPOXY COATED = 137349								
(*) DENOTES BARS TO BE EPOXY COATED									
SUPERSTRUCTURE S-4									
*	45401	455	30'-0"	ST.					9118
*	SERIES 1-SET 15'-6"								
	OF	OF 65=	TO	ST.				1 5/16"	825
	45402	65BAR	22'-6"						
	45501	350	30'-0"	ST.					10951
	SERIES 1-SET 18'-6"								
	OF	OF 50=	TO	ST.				1 1/2"	1121
	45502	50BAR	24'-6"						
*	45503	349	3'-1"	51	10"	1'-1"	6"	4"	1122
*	45504	353	5'-8"	23	2'-2"	2'-6"			2086
*	45505	349	2'-1"	1	8"	1'-6"			758
	45506	360	41'-4"	ST.					15520
	SERIES 1-SET 39'-10"								
	OF	OF 38=	TO	ST.				10 3/16"	918
	45507	38BAR	6'-6"						
*	45508	56	30'-0"	ST.					1752
*	45509	4	24'-0"	ST.					100
*	45510	4	18'-0"	ST.					75
	SERIES 1-SET 39'-5"								
	OF	OF 47=	TO	ST.				8 11/16"	1113
	45511	47BAR	6'-0"						
	45512	11	6'-0"	ST.					69
	45513	1	4'-9"	12	9"	4'-0"	2'-0"		5
	45514	1	5'-3"	12	1'-4"	4'-0"	2'-5"		5
*	45515	192	29'-5"	ST.					5891
*	45516	4	3'-5"	51	10"	1'-5"	6"	4"	14
*	45517	4	2'-7"	1	10"	1'-10"			11
*	45522	72	14'-6"	ST.					1089
*	45523	76	7'-0"	ST.					555
*	45524	4	14'-5"	ST.					60
*	45525	4	13'-3"	ST.					55
	45540	52	5'-7"	3	3'-6"	1'-7"	9"		303
	45541	52	7'-1"	9	3'-4"	8"			384
	45542	52	3'-0"	2	1'-0"	1'-3"			163
	45543	52	5'-8"	12	3'-3"	2'-6"	1'-7"		307
	45544	32	10'-10"	ST.					362
	45545	16	3'-2"	ST.					53
	45546	4	26'-10"	ST.					112
	45560	32	2'-7"	16	7"	1'-4"	8"	10"	86
	45561	8	10'-0"	ST.					83
*	45570	5	6'-4"	4	11"	2'-0"	1'-6"		33
*	45601	357	41'-4"	ST.					22164
*	SERIES 1-SET 39'-10"								
	OF	OF 38=	TO	ST.				10 13/16"	1322
	45602	38BAR	6'-6"						

MARK	N ^o REQ'D.	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
* SERIES	1-SET	39'-5"							
OF	OF 47=	TO	ST.					8 11/16"	1603
45603	47BAR	6'-0"							
* 45604	11	6'-0"	ST.						99
* 45605	1	4'-8"	12	9"	4'-0"	2'-0"			7
* 45606	1	5'-3"	12	1'-4"	4'-0"	2'-5"			8
* 45670	4	6'-0"	ST.						36
45671	4	6'-0"	ST.						36
* 45672	4	6'-8"	60						40
* 45673	4	2'-2"	1	10"	1'-6"				13
* 45674	4	3'-1"	51	10"	1'-1"	6"	4"		19
	NON EPOXY COATED =					31384			
	EPOXY COATED =					48609			
(*) DENOTES BARS TO BE EXPOXY COATED									

AKRON INNERBELT
SUM - 59 - 0.00

NOTES

① FOR SPIRAL REINFORCING OVER 15'-0".
FOUR ANGLE SPACERS WEIGHING
APPROX. 1.01 LBS. PER LINEAL FT. OF
SPACER SHALL BE PROVIDED FOR
EACH SPIRAL UNIT LISTED ABOVE.
THEY SHALL BE EQUALLY SPACED
ALONG THE PERIPHERY OF EACH
COIL. THE NUMBER OF POUNDS OF
THESE SPACERS WILL BE PAID FOR
AS REINFORCING STEEL AND IS
INCLUDED IN THE TABULATED
SPIRAL WEIGHT.

② FOR SPIRAL REINFORCING UNDER 15'-0".
FOUR ANGLE SPACERS WEIGHING
APPROX. .80 LBS. PER LINEAL FT. OF
SPACER SHALL BE PROVIDED FOR
EACH SPIRAL UNIT LISTED ABOVE.
THEY SHALL BE EQUALLY SPACED
ALONG THE PERIPHERY OF EACH
COIL. THE NUMBER OF POUNDS
OF THESE SPACERS WILL BE PAID
FOR AS REINFORCING STEEL AND
IS INCLUDED IN THE TABULATED
SPIRAL WEIGHT.

③ THE LENGTH SHOWN IN THE STEEL
SCHEDULE FOR THE SPIRAL BARS
IS THE DISTANCE FROM THE TOP
OF THE FOOTING TO THE TOP OF
THE COLUMN INCLUDING THREE
(3) CLOSED COILS (ONE AND ONE
HALF CLOSED COILS AT THE
ENDS OF EACH SPIRAL UNIT.)

④ REFER TO CMS SECTIONS 106.03,
700, 709.01 THROUGH 709.05 AND
709.08. SUFFICIENT ADDITIONAL
REINFORCING STEEL SHALL BE
PROVIDED FOR SAMPLING.
RANDOM SAMPLES SHALL BE
REPLACED IN THE STRUCTURES
BY THE ADDITIONAL STEEL,
SPliced IN ACCORDANCE WITH
509.08.

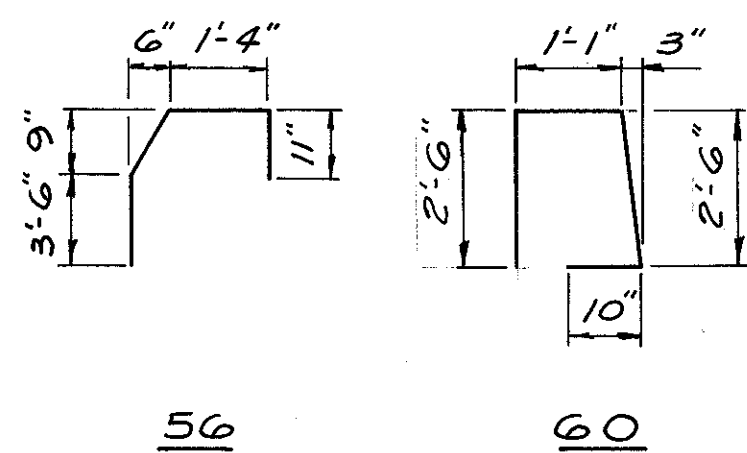
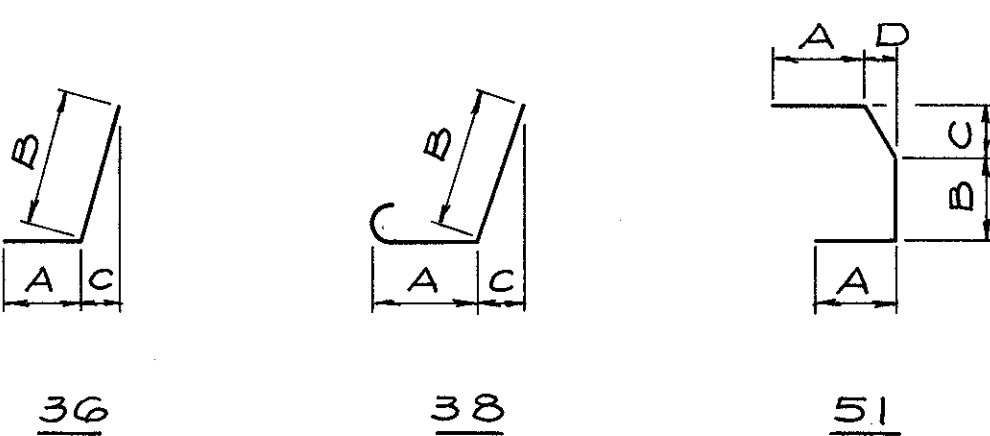
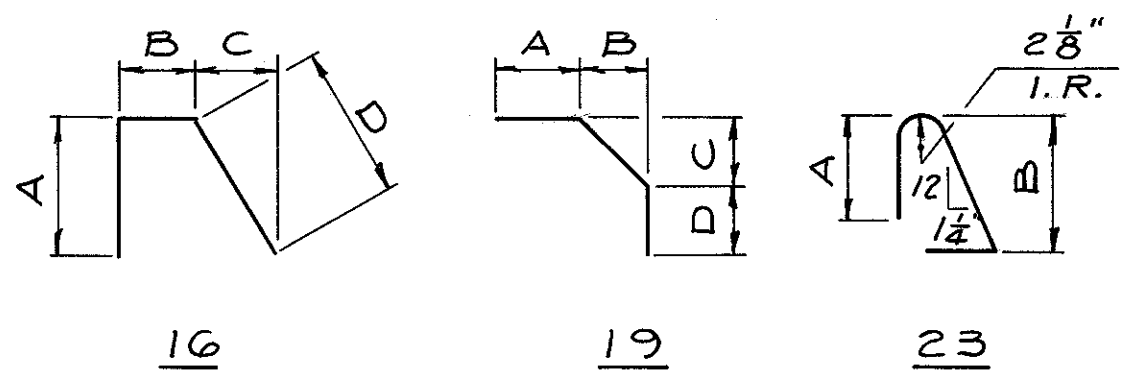
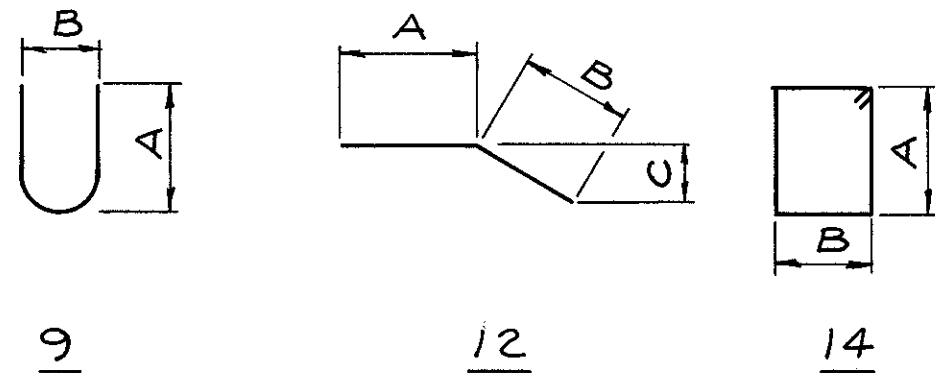
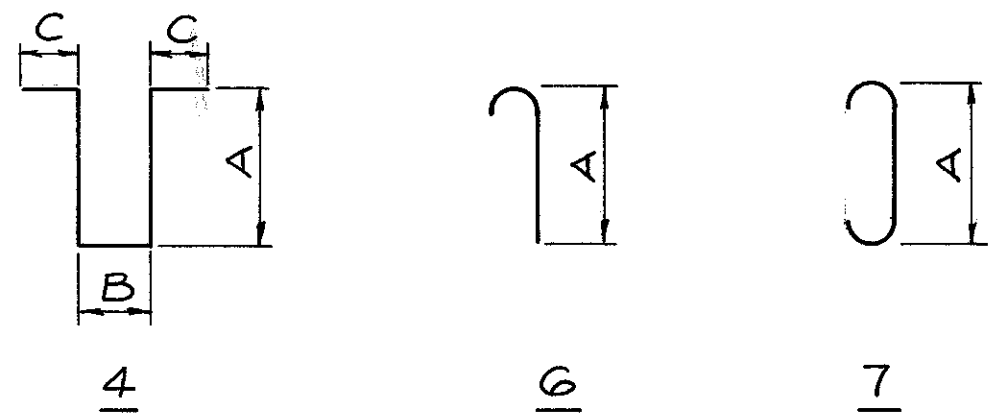
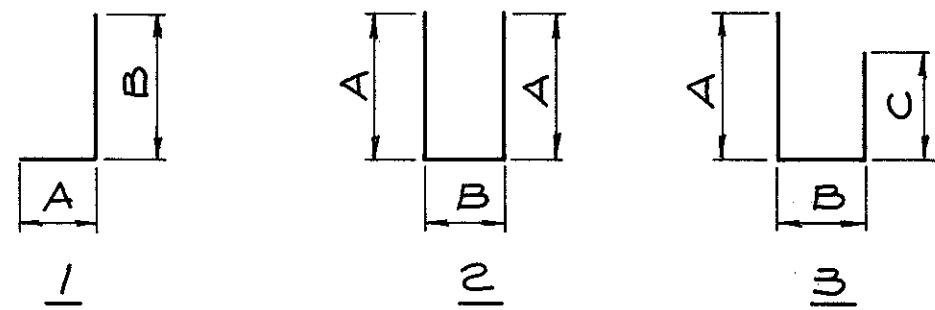
* SPIRAL LENGTHS FOR PIERS 8 & 9
HAVE BEEN ESTIMATED. ACTUAL
LENGTHS CAN BE DETERMINED
DURING CONSTRUCTION.

NON EPOXY COATED REINFORCING STEEL

ABUTMENT	TOTAL = 20,935 LBS
PIER	TOTAL = 241,828 LBS
SUPERSTRUCTURE	TOTAL = 207,947 LBS
GRAND TOTAL	= 470,710 LBS

EPOXY COATED REINFORCING STEEL

ABUTMENT	TOTAL = 2,610 LBS
PIER	TOTAL = 0 LBS
SUPERSTRUCTURE	TOTAL = 336,540 LBS
GRAND TOTAL	= 339,150 LBS



SPIRAL REINFORCING SCHEDULE					
MARK	Nº REQ'D.	CORE DIA. OF SPIRAL	LENGTH OF SPIRAL	PITCH INS.	WEIGHT LBS.
SPIRALS - PIER P-1					
1P-SP505	1	2'-7"	12'-7"	3.50	423
1P-SP506	1	2'-7"	11'-10"	3.50	399
1P-SP507	1	2'-7"	11'-2"	3.50	378
TOTAL SPIRALS PIER P-1 = 1200					
SPIRALS - PIER P-2					
2P-SP505	1	2'-7"	15'-1"	3.50	515
2P-SP506	1	2'-7"	14'-4"	3.50	479
2P-SP507	1	2'-7"	13'-8"	3.50	458
TOTAL SPIRALS PIER P-2 = 1452					
SPIRALS - PIER P-3					
3P-SP505	1	2'-7"	19'-8"	3.50	664
3P-SP506	1	2'-7"	19'-0"	3.50	642
3P-SP507	1	2'-7"	18'-4"	3.50	621
TOTAL SPIRALS PIER P-3 = 1927					
SPIRALS - PIER P-4					
4P-SP508	1	3'-1"	19'-5"	3.50	770
4P-SP509	1	3'-1"	18'-11"	3.50	751
4P-SP510	1	3'-1"	18'-3"	3.50	725
TOTAL SPIRALS PIER P-4 = 2246					
SPIRALS - PIER P-5					
5P-SP508	1	3'-1"	19'-5"	3.50	770
5P-SP509	1	3'-1"	19'-1"	3.50	757
5P-SP510	1	3'-1"	18'-5"	3.50	732
TOTAL SPIRALS PIER P-5 = 2259					

SPIRAL REINFORCING SCHEDULE					
MARK	Nº REQ'D.	CORE DIA. OF SPIRAL	LENGTH OF SPIRAL	PITCH INS.	WEIGHT LBS.
SPIRALS - PIER P-6					
6P-SP508	3	3'-1"	25'-9"	3.50	3033
TOTAL SPIRALS PIER P-6 = 3033					
SPIRALS - PIER P-7					
7P-SP508	1	3'-7"	29'-6"	3.50	1325
7P-SP509	1	3'-7"	30'-2"	3.50	1354
7P-SP510	1	3'-7"	31'-1"	3.50	1394
TOTAL SPIRALS PIER P-7 = 4073					
SPIRALS - PIER P-10					
10P-SP508	1	3'-7"	31'-2"	3.50	1397
10P-SP509	1	3'-7"	31'-10"	3.50	1427
10P-SP510	1	3'-7"	32'-9"	3.50	1467
TOTAL SPIRALS PIER P-10 = 4291					
SPIRALS - PIER P-11					
11P-SP507	1	3'-7"	31'-11"	3.50	1430
11P-SP508	1	3'-7"	31'-6"	3.50	1412
11P-SP509	1	3'-7"	31'-3"	3.50	1401
TOTAL SPIRALS PIER P-11 = 4243					
SPIRALS - PIER 8 & 9 *					
8P-SP501	2	4'-6"	22'-0"	3	2831
8P-SP502	1	4'-6"	16'-0"	3	1041
8P-SP503	1	4'-6"	18'-0"	3	1166
8P-SP504	1	4'-6"	20'-0"	3	1291
9P-SP501	2	4'-6"	15'-6"	3	2020
9P-SP502	1	4'-6"	13'-6"	3	885
9P-SP503	1	4'-6"	14'-0"	3	917
9P-SP504	1	4'-6"	15'-0"	3	979
TOTAL SPIRALS PIER 8 & 9 = 11130					

DALTON • DALTON • NEWPORT
CLEVELAND, OHIO AKRON, OHIO

REINFORCING SCHEDULE
AKRON INNERBELT OVER BOWERY STREET,
OHIO CANAL, WEST EXPRESSWAY
AND RUSSELL AVENUE
BR. NO. SUM-59-0000
AKRON OHIO SUMMIT COUNTY
STA. 114 + 52.10 TO STA. 129 + 52.60

DESIGNED D.T. COG	DRAWN F.F.	TRACED	CHECKED A.H.	REVIEWED J.P.	DATE 12-2-8	REVISED
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