

DESIGN DESIGNATION

CURRENT A.D.T. (1972) 19,800
DESIGN YEAR A.D.T. (1990) 37,610
D.H.V. 3,385
D (DIRECTIONAL DISTRIBUTION) 40%-60%
T (PERCENT B+C TRUCKS) 30%
V (DESIGN SPEED) 70 MPH

MICROFILMED
OCT 13 1982

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
RIC-30-3.74 RIC-CH.135
VILLAGE OF ONTARIO
SPRINGFIELD TWP.
CITY OF MANSFIELD RICHLAND COUNTY

NOTE: Project designation RIC-30-3.92
appearing throughout this plan
shall be considered to read
RIC-30-3.74.

Table with 4 columns: FHWA REGION, STATE, PROJECT, SHEET NO. Values: 5, OHIO, RIC-30-3.74, 1/618

RIC-30-3.74
RIC-CH.135

RF-U-600 (19)
M-2N00 (1) & ISSUE NO. I

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC
AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY
ACTION OF THE DIRECTOR OF TRANSPORTATION IN ACCORDANCE WITH THE PRO-
VISIONS OF SECTION 5511.02 OF THE REVISED CODE OF OHIO.

1975 SPECIFICATIONS

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

THE RIGHT OF WAY FOR THIS IMPROVEMENT WILL BE PROVIDED FOR BY
THE STATE OF OHIO.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF
THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE
HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF
TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED: H.H. Reader
DATE: 3-3-75 DISTRICT DEPUTY DIRECTOR OF TRANSPORTATION

APPROVED: Robert B. ...
DATE: 4-9-76 ENGINEER, BUREAU OF BRIDGES

APPROVED: E.J. Schaefer
DATE: 4-8-76 ENGINEER, BUREAU OF ROADWAY DESIGN

APPROVED:
DATE: ASSISTANT DEPUTY DIRECTOR OF HIGHWAY DESIGN.

APPROVED: New Billingsley
DATE: 7/12/76 ASSISTANT DEPUTY DIRECTOR FOR REAL ESTATE

APPROVED: Howard E. ...
DATE: 4-12-76 ASSIST. DEP. DIRECTOR FOR PROGRAM DEVELOPMENT

APPROVED: R.E. Ballin
DATE: 4-12-76 CHIEF ENGINEER, DESIGN

APPROVED:
DATE: CHIEF ENGINEER, CONSTRUCTION

APPROVED: David L. ...
DATE: 4-12-76 ASSIST. DIRECTOR, DEPARTMENT OF TRANSPORTATION

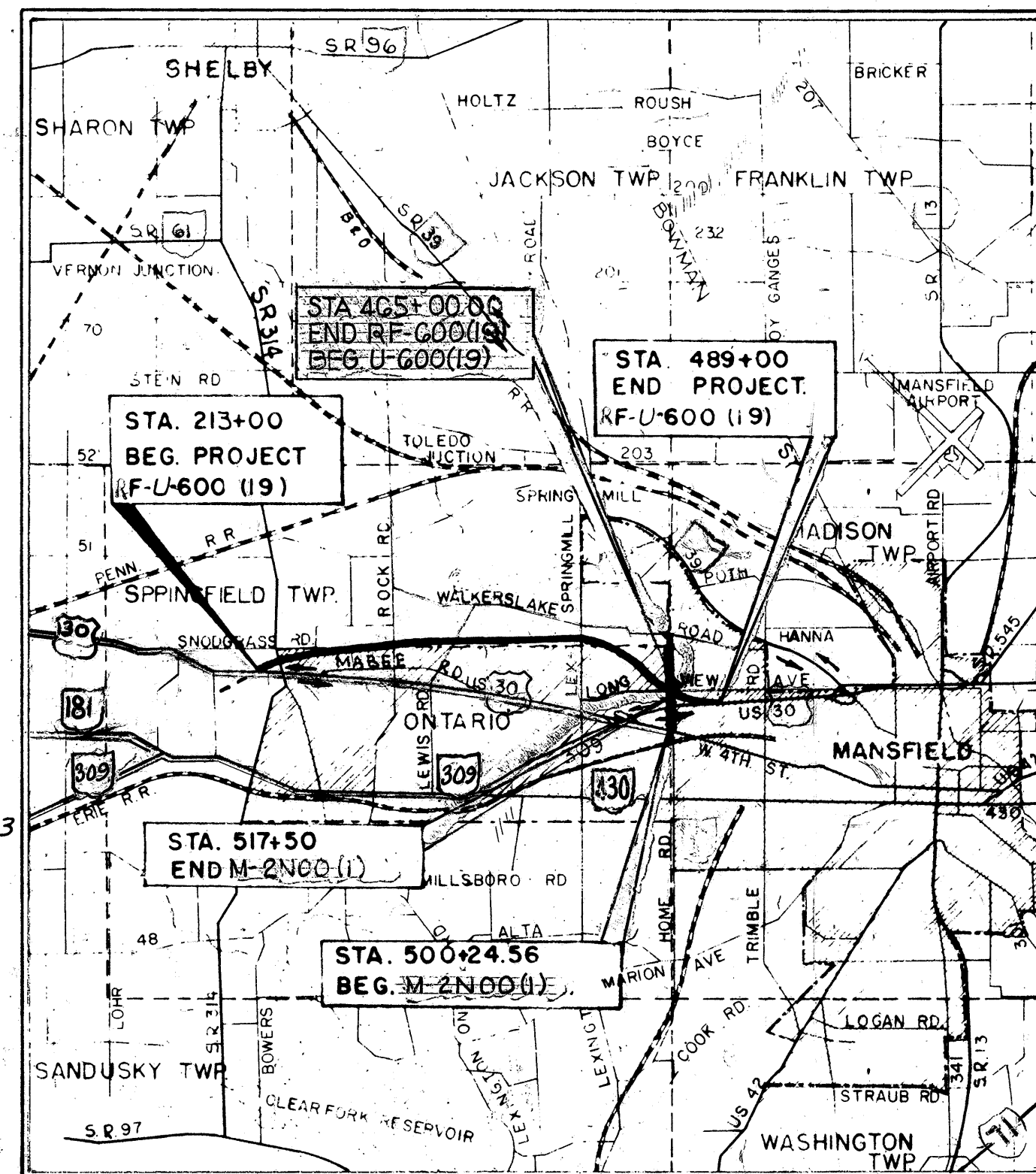
APPROVED: Richard D. Jackson
DATE: 4-12-76 DIRECTOR, DEPARTMENT OF TRANSPORTATION

CONVENTIONAL SIGNS

COUNTY LINE --- LIMITED ACCESS (ONLY) --- LA ---
TOWNSHIP LINE --- RIGHT OF WAY (ONLY) --- RW ---
SECTION LINE --- LIMITED ACCESS & RIGHT OF WAY --- LA&RW ---
CORPORATION LINE --- EXISTING RIGHT OF WAY ---
FENCE LINE (EXISTING) --- (PROPOSED) --- PROPERTY LINE --- P --- (IN EXISTING FENCE) --- P ---
CENTER LINE 210 RAILROAD --- GUARD RAIL (EXISTING) --- (PROPOSED) ---
TREES STUMPS & (TO BE REMOVED) X X UTILITY POLES: TELEPHONE P POWER P LIGHT P

INDEX OF SHEETS

Table listing sheet titles and numbers: TITLE SHEET, SCHEMATIC PLAN, GENERAL NOTES, CALCULATIONS, STRUCTURE TABLE 20' SPAN & UNDER, etc.



LOCATION MAP

SCALE OF MILES

PORTION TO BE IMPROVED
STATE HIGHWAY
OTHER STREETS
DETOUR (SR 314)

SCALES

PLAN 1" = 50'
PROFILE - HORIZONTAL 1" = 50'
PROFILE - VERTICAL 1" = 5'
CROSS SECTIONS 1" = 10'
RIGHT OF WAY 1" = 50'
OTHERS AS SHOWN

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

Table listing supplemental prints: BP-1, BP-2, BP-3, BP-4, BP-5, BP-6, BP-7, CB-2A&B, CB-3, CB-3A, CB-4, CB-5, CB-6, etc.

SUPPLEMENTAL SPECIFICATION

Table listing supplemental specifications: 808, 839, 814, 844, 856, 941, 948, 5625, 5713, 1001, etc.

LINE DATA table with columns for PROJECT and WORK for RF-600(19), U-600(19), and M-2N00(1).

PREPARED AND RECOMMENDED BY
PARRETT & MC CARTNEY
CONSULTING ENGINEERS

PROJECT RIC-30-3.74 RIC-CH.135

DATE OF LETTING 19 CONTRACT NO.

MANSFIELD OHIO

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED:
DIVISION ADMINISTRATOR DATE

Rev. 5-76

MICROFILMED
OCT 13 1982

FED. RD. DIVISION	STATE	PROJECT	28 618

RIC-30-392
RIC-CH-135

BEGIN WORK STA. 0+12

STANDER ACCESS DR
END WORK STA. 8+20

STA. 527+75 HOME RD. =
STA. 0+00 RELOC.
LONGVIEW AVE. (E.)
345° 07' 29" E

STANDARD U-TURN
STA. 450+50

STA. 464+36.00 US 30°
STA. 522+49.25 C.H. 135

BRIDGE NO.
RIC-30-0880

STA. 518+50 HOME RD. =
STA. 15+00 RELOC.
LONGVIEW AVE. (W.)

CURVE DATA
PI. STA. 416+11.25
Δ = 53° 11' 48" RT.
D = 1° 28'
T = 1956.10'
E = 462.37'
R = 3906.53'
L = 3627.045'
PC. STA. 396+55.15
PT. STA. 432+82.20

STA. 436+12.46 BACK =
STA. 434+97.89 AHEAD

PROJECT NO. END PROJECT
RIC-30-0894 STA. 517+50
M-2100 (1)

END RELOC. (19)
SECTION
STA. 465+00
BEGIN U-TURN (19)
SECTION

473+52.93 BEGIN
MEDIAN TRANSITION

484+25.92 END
MEDIAN TRANSITION

BRIDGE NO.
RIC-30-0894

DIRECTIONAL ROADWAY
(Prop. W.B. & R. 309)

PROJECT NO. END PROJECT
RIC-30-0877 STA. 517+50
M-2100 (1)

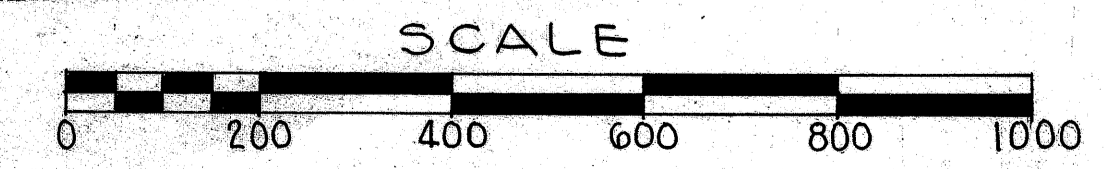
BRIDGE NO.
RIC-30-0877 (Exist.)
RIC-309-0872 (Prop.)

CURVE DATA
PI. STA. 474+33.66 = 161+81.90 Exist. 30 ENTRANCE TERMINAL
Δ = 48° 55' 10" LT.
D = 2°
T = 300'
E = 2864.789'
R = 1453.709'
L = 283.885'
PC = 2145.97'
PT = 1.30'
X = 149.99'
Y = 299.92'
Z = 5.24'
φ = 5°
L.T. = 200.03'
S.T. = 100.03'
P = 42° 55' 10"
T.S. STA. 459+79.95
S.C. STA. 462+79.95
C.S. STA. 484+25.92

END PROJECT
STA. 489+00
S.L.M = 9.17

RF-U-600 (19)

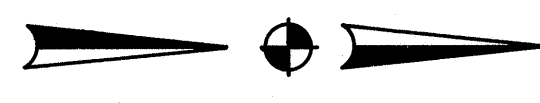
END WORK STA. 526+40.31 RIC-30-392 =
STA. 215+50 EXIST. 30.



QUANTITY	INIT.	DATE
CALCULATED	AW	8/70
CHECKED	JH	10/70
REVISED		

BM - RR Spike in 8" Cherry
SE Corner Home & Longview
El. 1327.16

MICROFILMED
OCT 14 1982

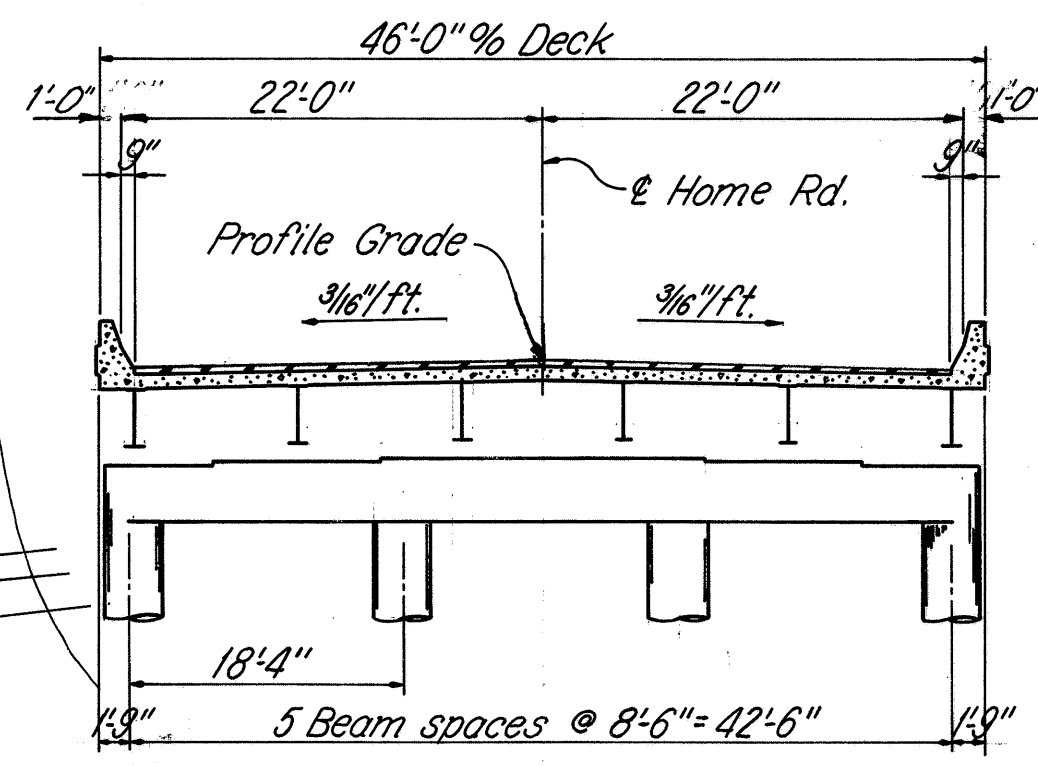


CURVE DATA - U.S.R. 30

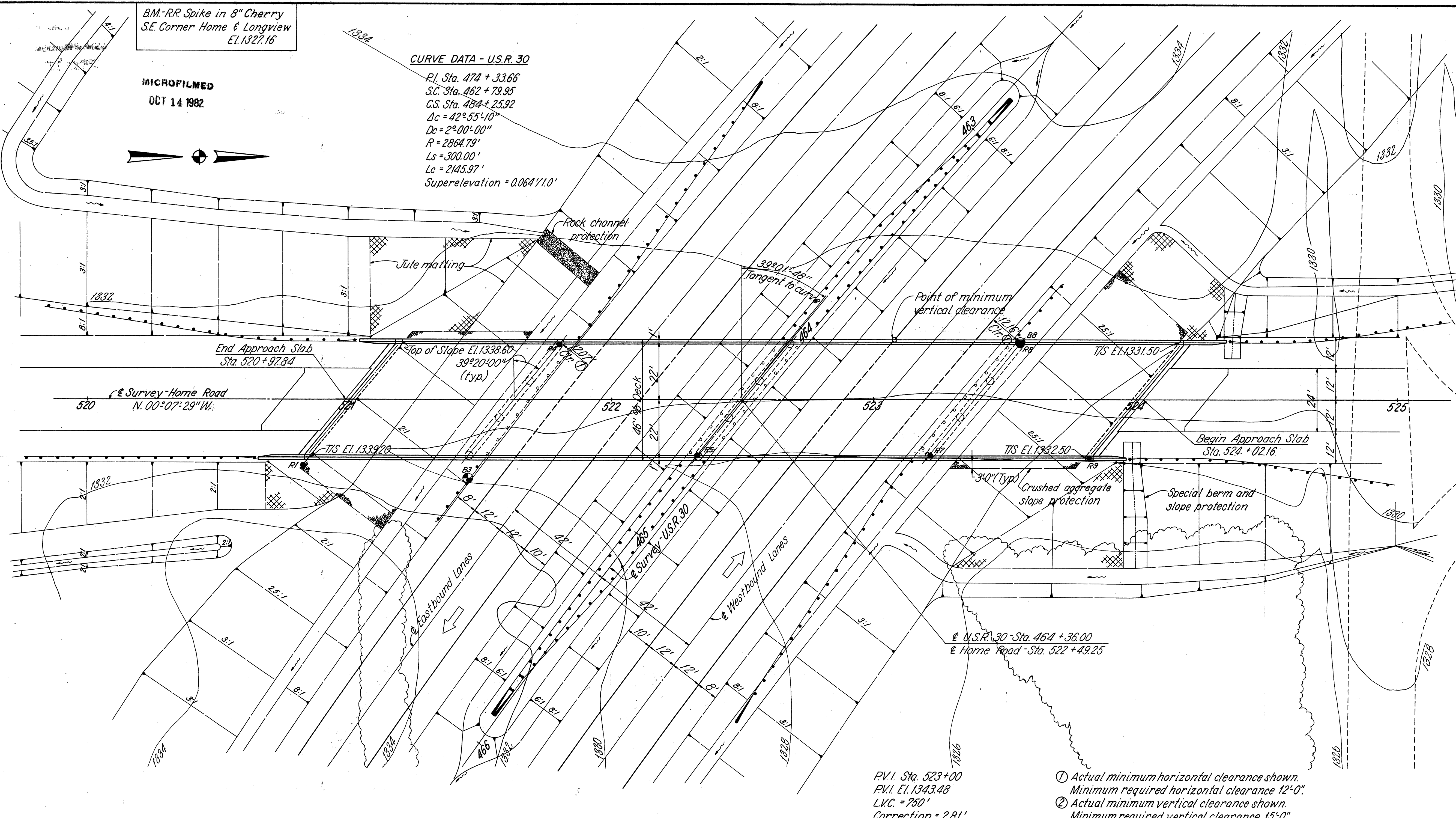
PI Sta. 474 + 33.66
SC Sta. 462 + 79.95
CS Sta. 484 + 25.92
Dc = 42° 55' 10"
R = 2864.79'
Ls = 300.00'
Lc = 2145.97'
Superelevation = 0.064' / 11.0'

FED. RD. DIVISION	STATE	PROJECT	489 618
2	OHIO		

RIC-30-3.92
RIC. C.H. 135



TRANSVERSE SECTION



EARTHWORK limits shown are schematic. Actual slopes shall conform to plan cross-sections.

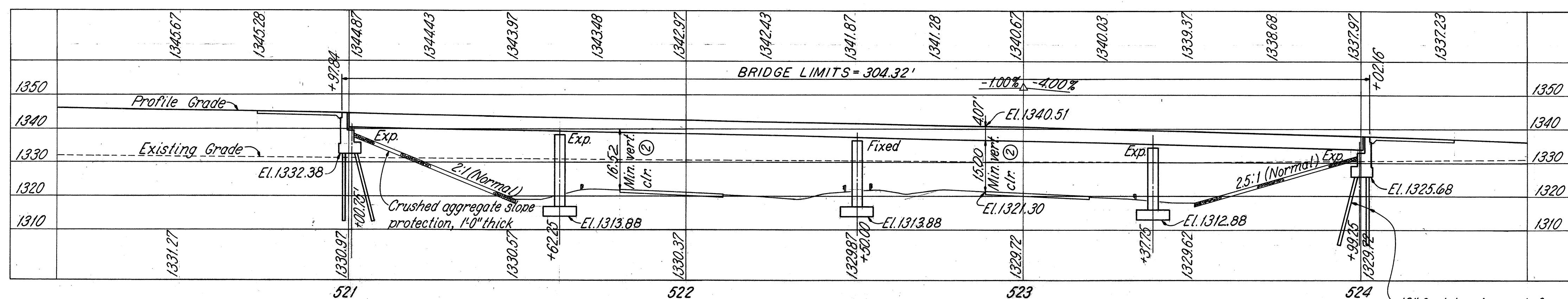
PROPOSED STRUCTURE
 TYPE: Continuous steel beam bridge with reinforced concrete deck and substructure.
 SPANS: 61'-6"; 87'-9"; 87'-9"; 61'-6" % Bearings
 ROADWAY: 44'-0" Parapets
 LOADING: HS 20-44
 SKEW: 39° 20' 00" L.F.
 SURFACE COURSE: 1 1/2" Asphalt concrete
 APPROACH SLABS: AS-1-72 (25'-0" long) Modified
 ALIGNMENT: Tangent
 AVERAGE DAILY TRAFFIC: 3294 (1990)

FOUNDATION INVESTIGATION LEGEND
 ⊕ Indicates core boring location.
 ● Indicates rod sounding location.

PARRETT & MCCARTNEY CONSULTING ENGINEERS		1 / 9	
MANSFIELD		OHIO	
SITE PLAN			
BRIDGE No. RIC - 30 - 0880			
UNDER HOME ROAD			
RICHLAND COUNTY		U.S.R. 30	
STA 464 + 41.56			
DESIGNED	DRAWN	TRACED	CHECKED
D.H.T.	J.S.	J.S.	G.S.B.
REVIEWED	DATE	REVISED	
D.H.T.	4/14/71		

PVI Sta. 523+00
PVI. El. 1343.48
L.V.C. = 750'
Correction = 2.81'

① Actual minimum horizontal clearance shown.
Minimum required horizontal clearance 12'-0".
② Actual minimum vertical clearance shown.
Minimum required vertical clearance 15'-0".



12" Cast-in-place reinforced concrete piles. The estimated average pay length for the Abutments is 20 ft.

MICROFILMED
OCT 14 1982

RIC-30-3.92
RIC. C.H. 135

GENERAL NOTES

REFERENCE shall be made to Standard Drawings AS-1-72 dated 6-30-72 ; SD-1-69, sheets 1 thru 4 (dated 6-12-69); BR-1-67, sheet 1 of 3 (revised 1-15-71); RB-1-55 (revised 2-2-59); and to Supplemental Specifications 808 (revised 1-1-71) and 836 (revised 3-12-75).

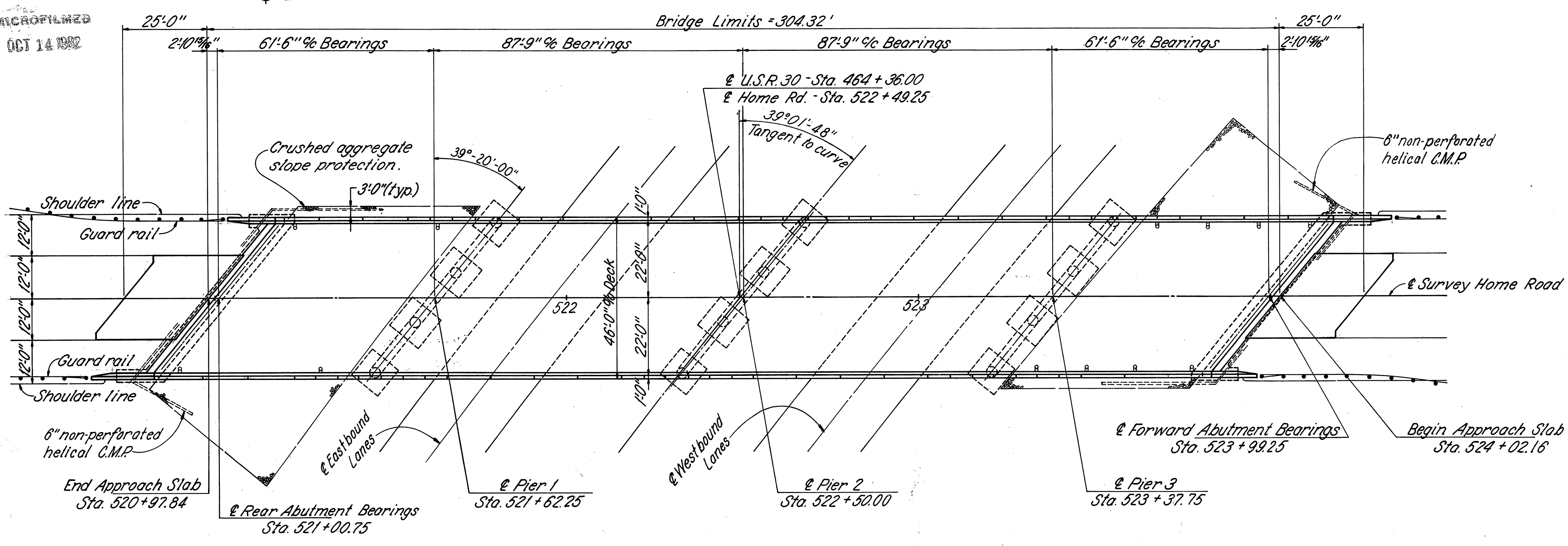
DESIGN SPECIFICATIONS: This structure conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway Officials, 1969, including the Ohio "Supplement" to these specifications.

DESIGN DATA:
 Design Loading - HS20-44
 Concrete Class C - unit stress 1200 p.s.i. for superstructure
 unit stress 1333 p.s.i. for substructure
 Structural Steel - ASTM A36 - unit stress 20,000 p.s.i.
 Reinforcing Steel - ASTM A615, A616 or A617 - unit stress 20,000 p.s.i.
 Spiral reinforcement may be plain bars ASTM A82 or A615.

EMBANKMENT CONSTRUCTION: The embankments shall be constructed to the level of the subgrade for a minimum distance of 200 feet back of the abutments. Excavation shall then be made for the abutments and piles driven.

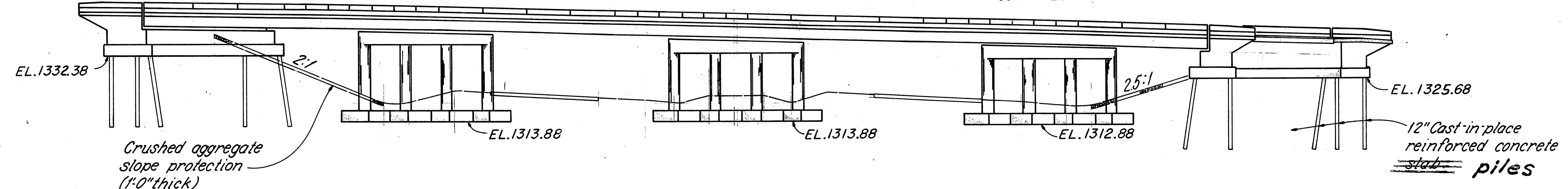
PILES shall be driven to a minimum bearing capacity of 35 tons per pile for abutments.

FOUNDATION BEARING PRESSURE: Pier footings are designed for a maximum bearing pressure of 2.5 tons per square foot.



GENERAL PLAN

P.V.I. Sta. 523+00
 P.V.I. EL. 1343.48
 L.V.C. = 780'
 Corr. = 2.81'



GENERAL ELEVATION

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUTS.	PIERS	GEN'L
503	729	Cu. Yds.	Unclassified excavation		324	405	
503	Lump	Sum	Cofferdams, cribs and sheeting				Lump
404	40	Cu. Yds.	Asphalt concrete, AC-20	40			
505	Lump	Sum	Test pile				Lump
507	640	Lin. ft.	12" Cast-in-place reinforced concrete piles		640		
509	183,381	Lbs.	Reinforcing steel	119,193	16,546	47,642	
511	449	Cu. Yds.	Class "C" concrete superstructure (See Prop. Note)	449			
511	125	Cu. Yds.	Class "C" concrete, pier caps and columns			125	
511	128	Cu. Yds.	Class "C" concrete, abutments above footings		128		
511	227	Cu. Yds.	Class "C" concrete, footings		97	130	
513	440,750	Lbs.	Structural steel	440,750			
514	440,750	Lbs.	Field painting of structural steel	440,750			
518	12	Each	Scupper, including supports	12			
518	72	Cu. Yds.	Porous backfill		72		
518	100	Lin. ft.	6" Perforated helical CMP, 707.01		100		
518	105	Lin. ft.	6" Non-perforated helical CMP, including specials, 707.01		105		
518	56	Each	Subdrainage for wearing course, as per plan	56			
Special	20	Cu. Yds.	Asphaltic protective course (See Proposal Note)	20			
601	746	Sq. Yds.	Crushed aggregate slope protection		746		
Special	1417	Sq. Yds.	Membrane Waterproofing, Cold applied liquid (See Proposal Note)	1417			
808	449	Units	Chemical admixture for concrete, type A, Bor D	449			

QUANTITIES	INIT.	DATE
CALCULATED	BAR	11-16-70
CHECKED	GGB	12-4-70
REVISED	WTF	1-2-75

2 / 9

PARRETT & McCARTNEY
 CONSULTING ENGINEERS
 OHIO

**GENERAL PLAN, GENERAL NOTES
 AND ESTIMATED QUANTITIES**
 BRIDGE NO. RIC - 30 - 0880
 UNDER HOME ROAD

RICHLAND COUNTY U.S.R. 30
 STA. 464 + 41.56

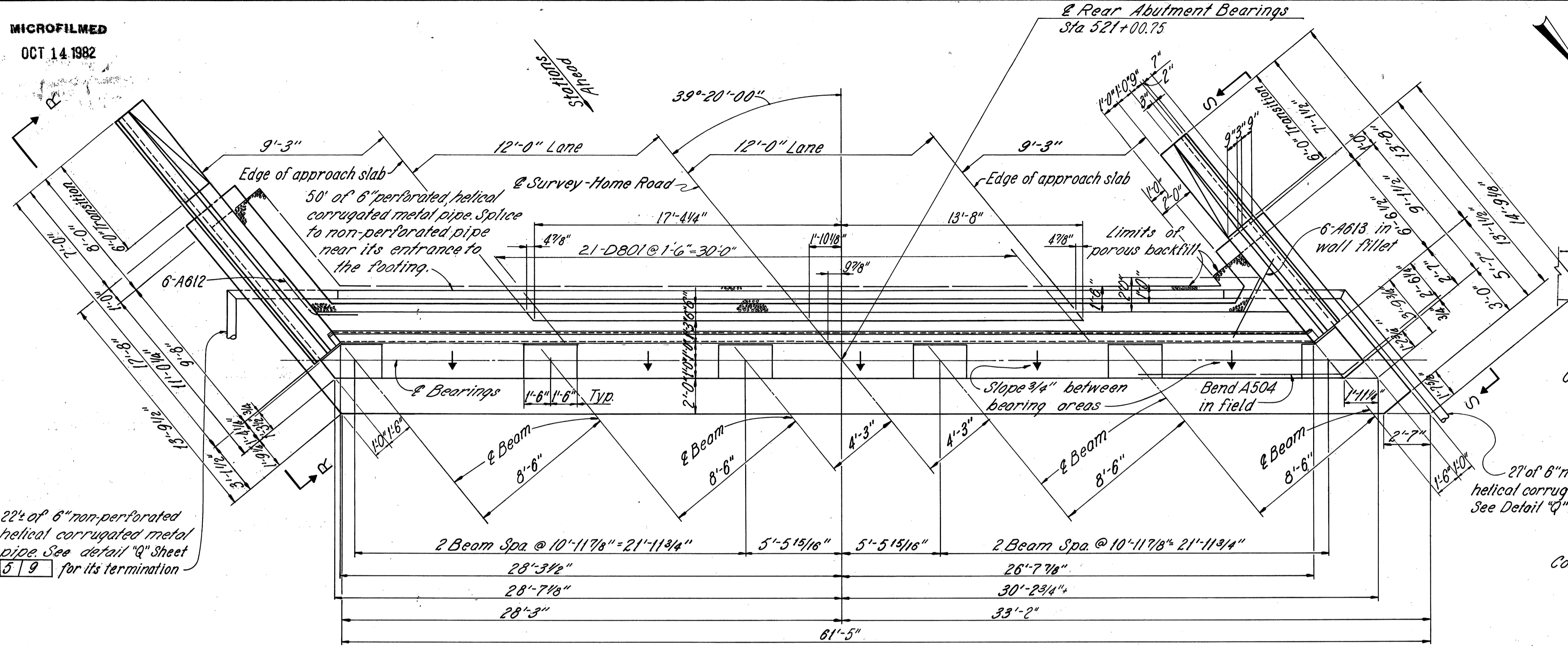
DESIGNED	D.H.T.	DRAWN	U.S.	TRACED	H.V.	CHECKED	G.S.B.	REVIEWED	D.H.T.	DATE	4/14/71	REVISED	1-14-72
----------	--------	-------	------	--------	------	---------	--------	----------	--------	------	---------	---------	---------

9-976

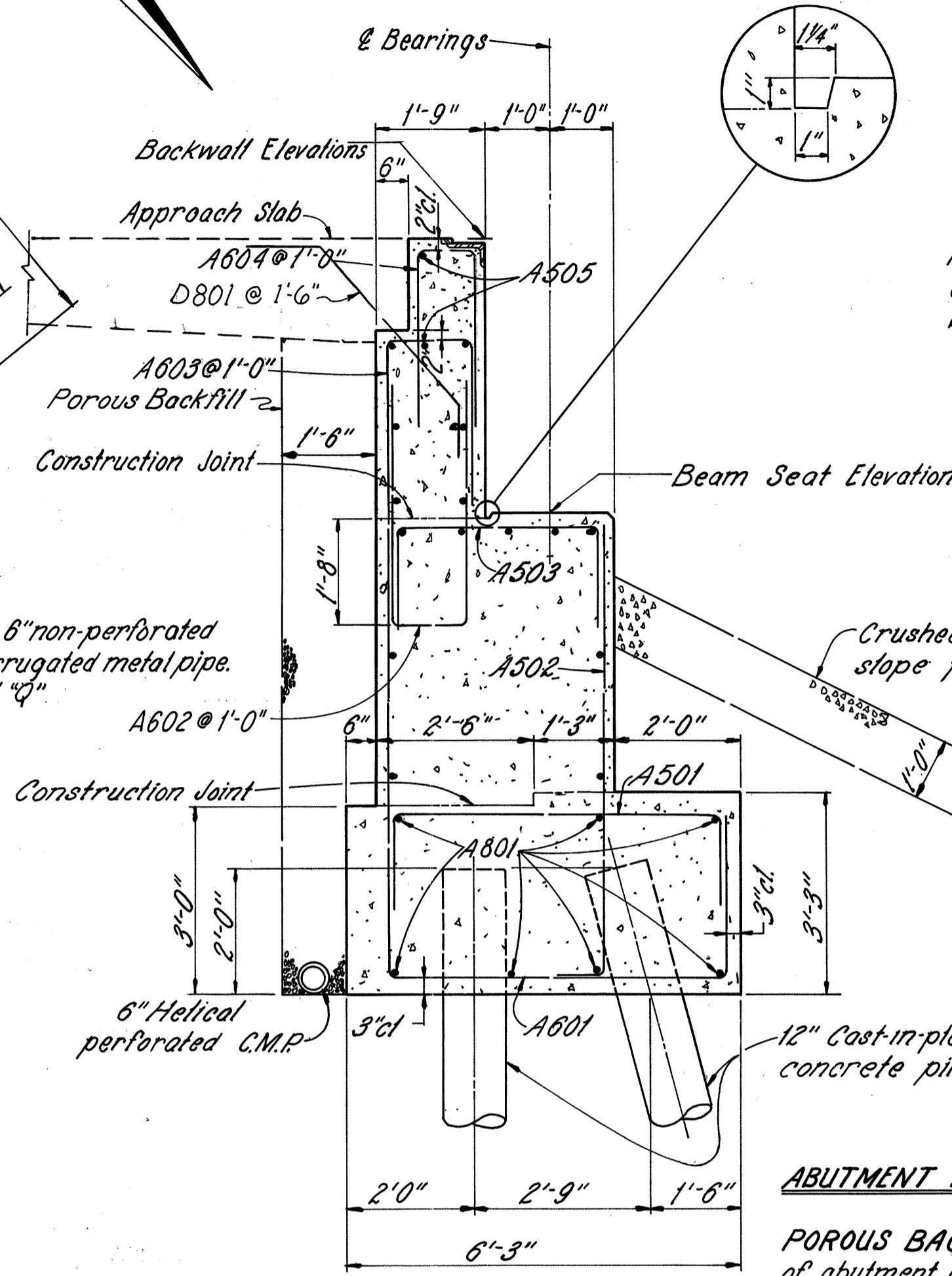
MICROFILMED
OCT 14 1982

FED. RD. DIVISION	STATE	PROJECT	491 618
2	OHIO		

RIC-30-392
RIC. C.H.135



22'± of 6" non-perforated helical corrugated metal pipe. See detail "Q" sheet 519 for its termination



Note: All longitudinal bars above footing are A504 bars except as noted.

ABUTMENT NOTES

POROUS BACKFILL, 1'-6" thick for full length of abutment and 2'-0" thick for wings, shall extend up to the approach slab, subgrade and finished ground surface.

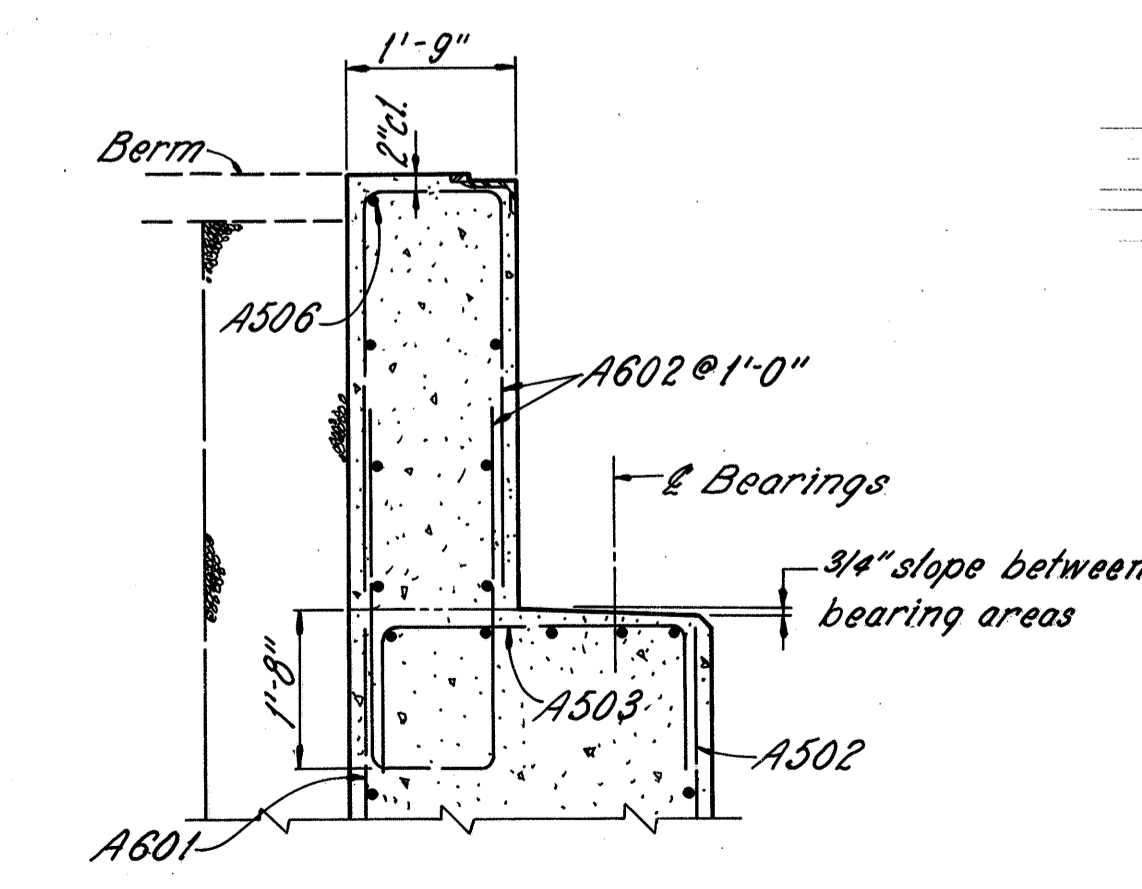
NOTATION: E.F.-each face, R.F.-rear face, F.F.-front face, R.A.-rear abutment, F.A.-forward abutment.

GENERAL NOTES: see sheet 2/9

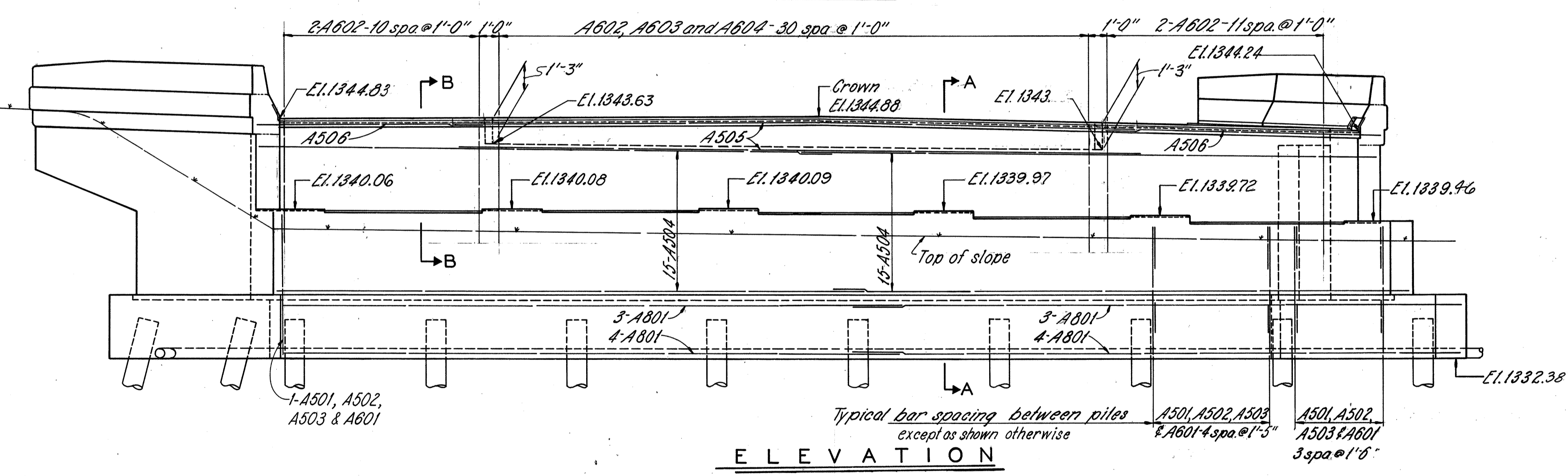
ABUTMENT DETAILS: see sheet 5/9

Backwall Concrete: In addition to the provisions of 511.08, backwall concrete shall not be placed until after the deck concrete in the span adjacent to the backwall has been placed.

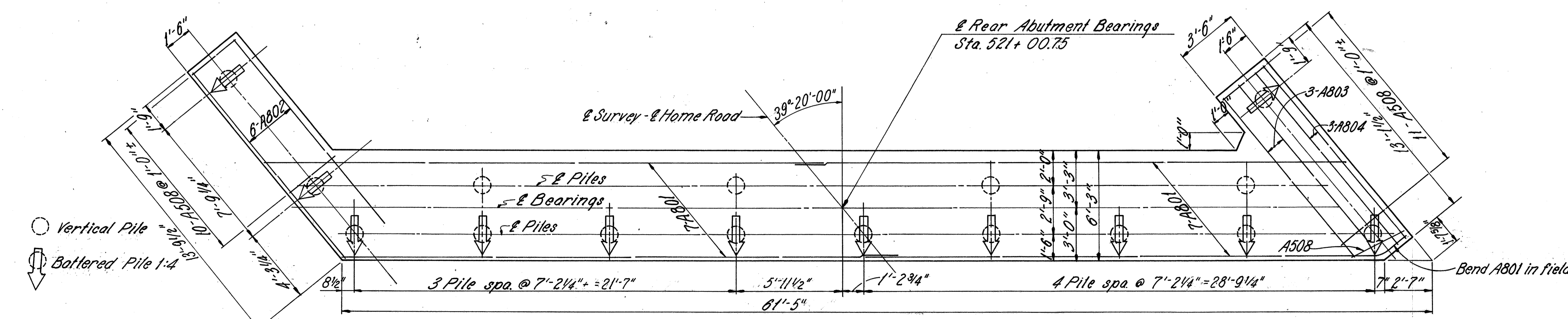
Standard Drawing AS-1-72 modified as follows:
1.) Dimension W = 24'-0"
2.) Change 2" clearance to 3" clearance for top reinforcing steel.



SECTION B-B



ELEVATION

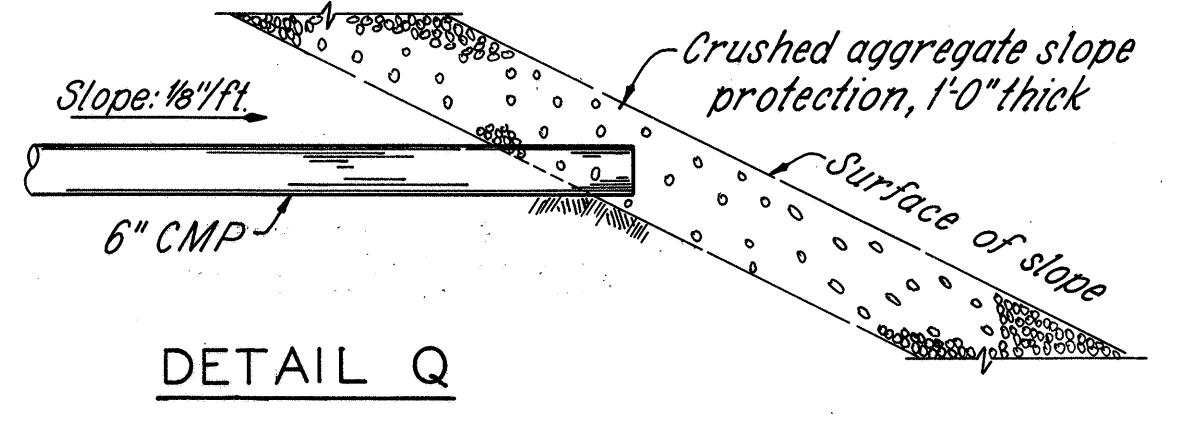
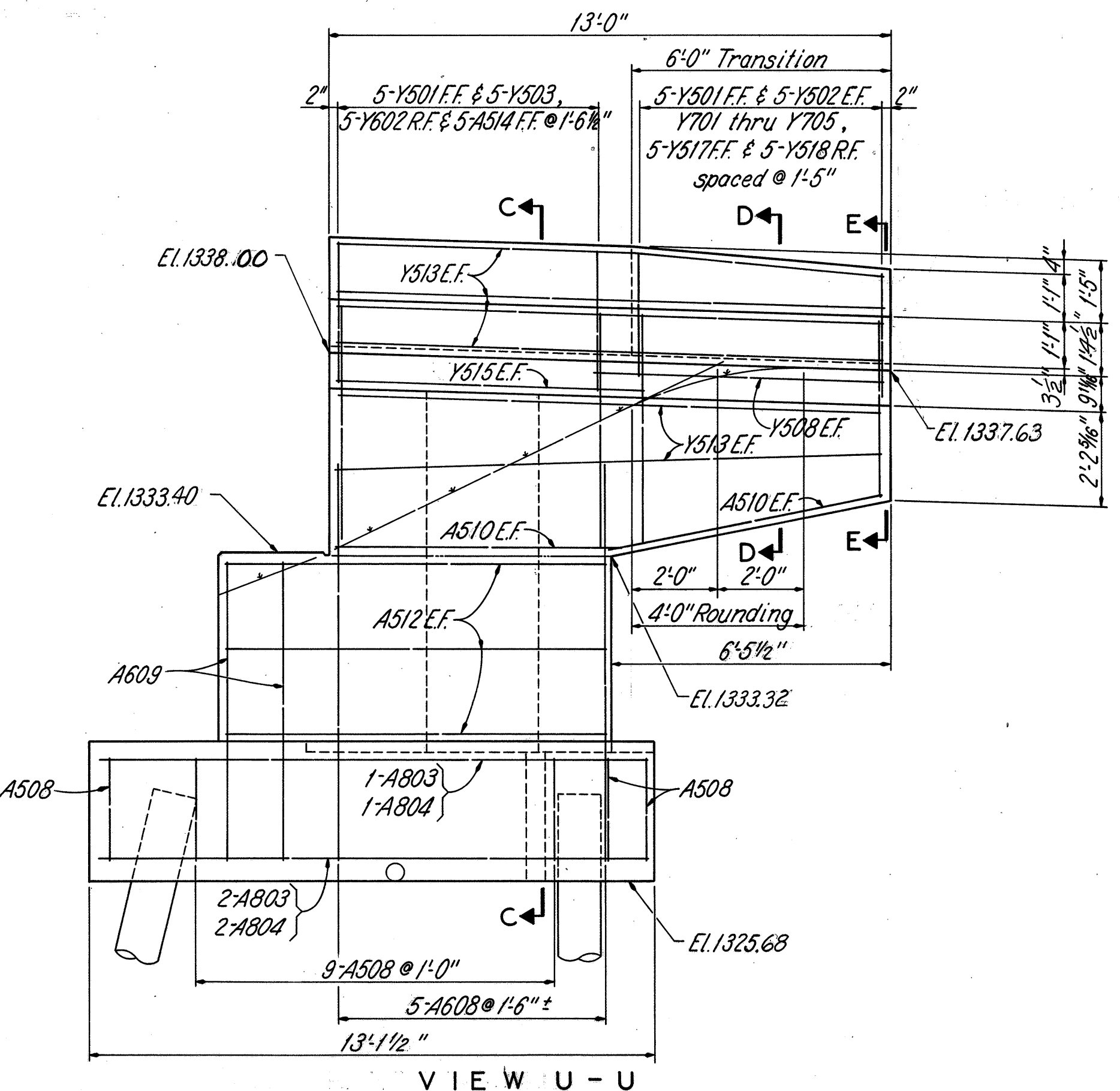
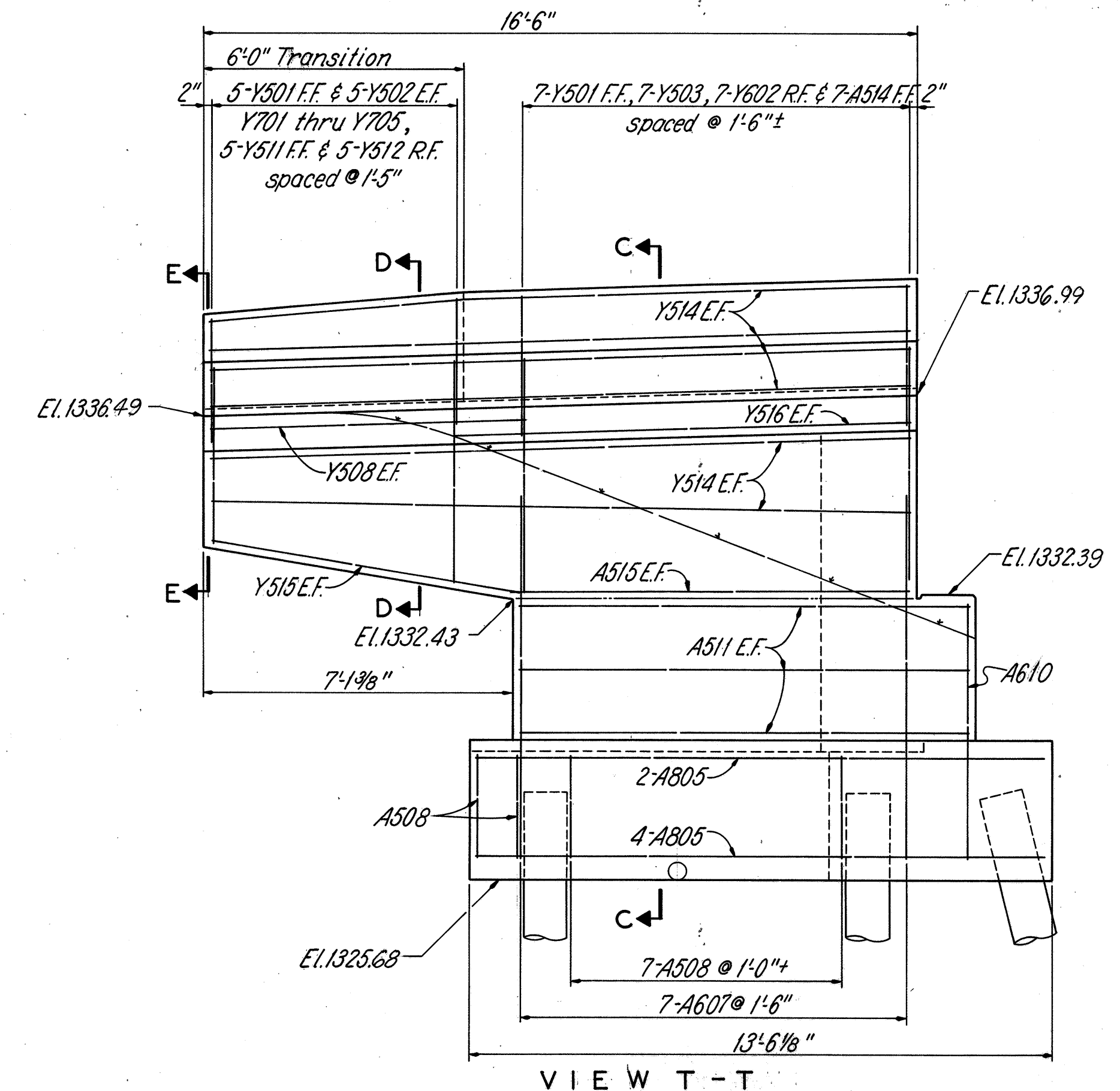
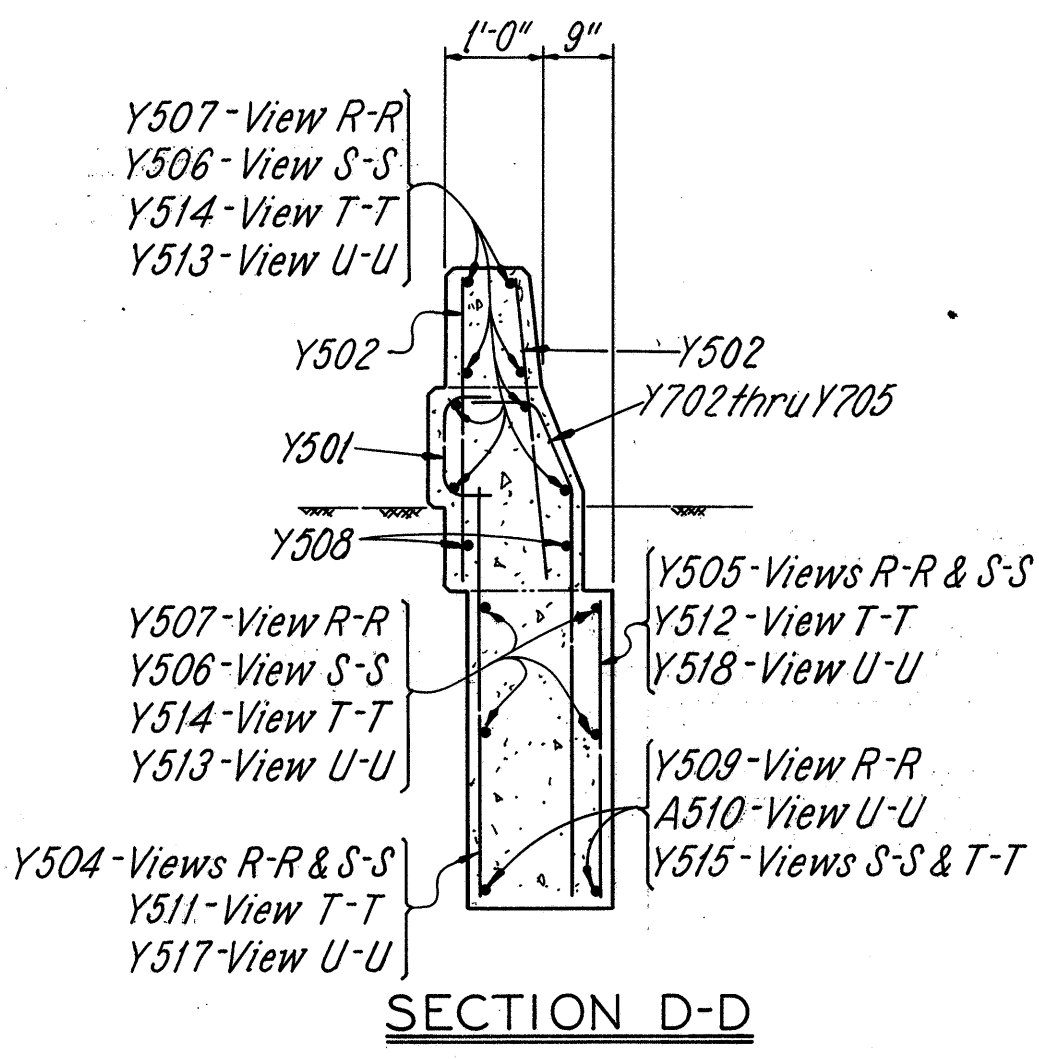
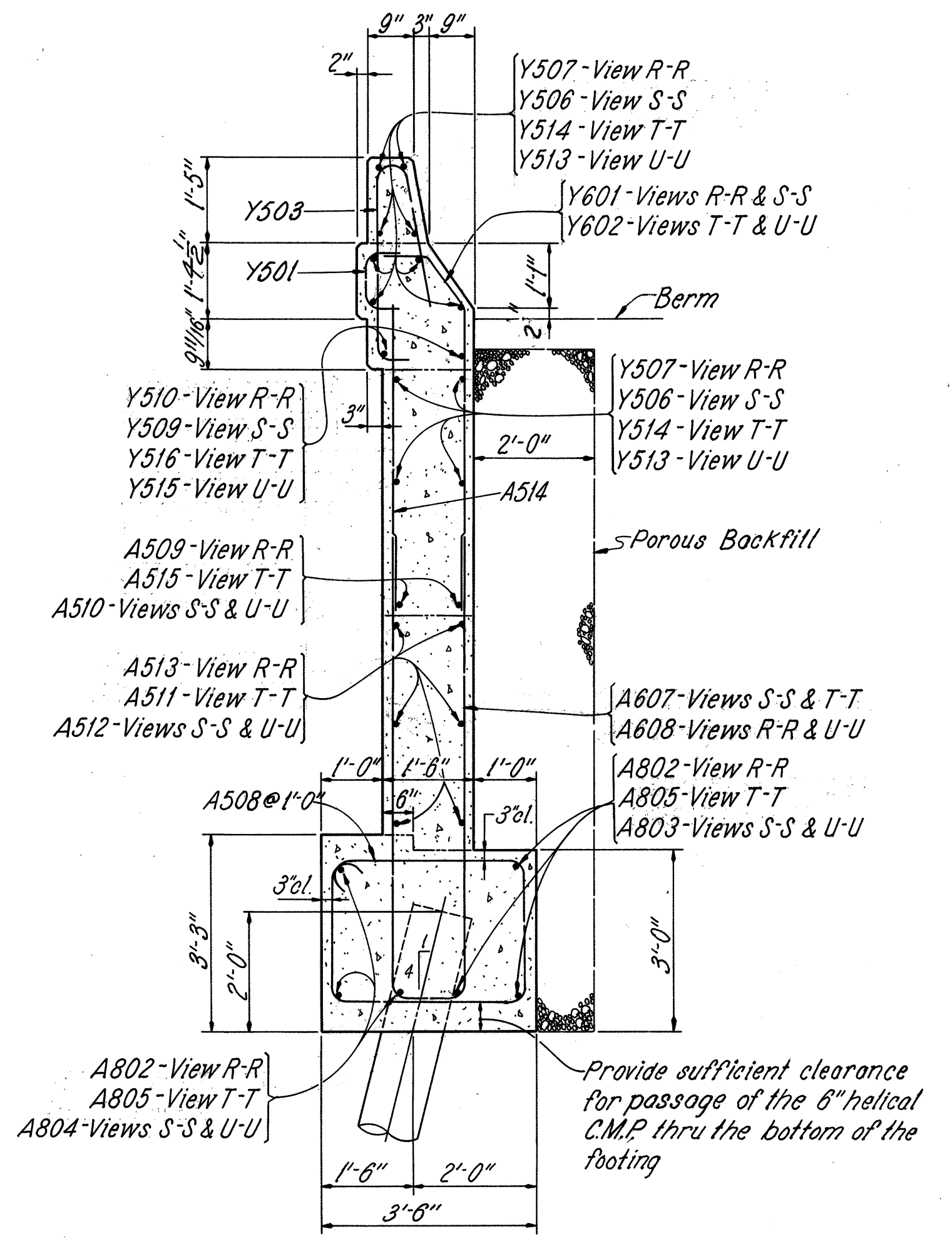
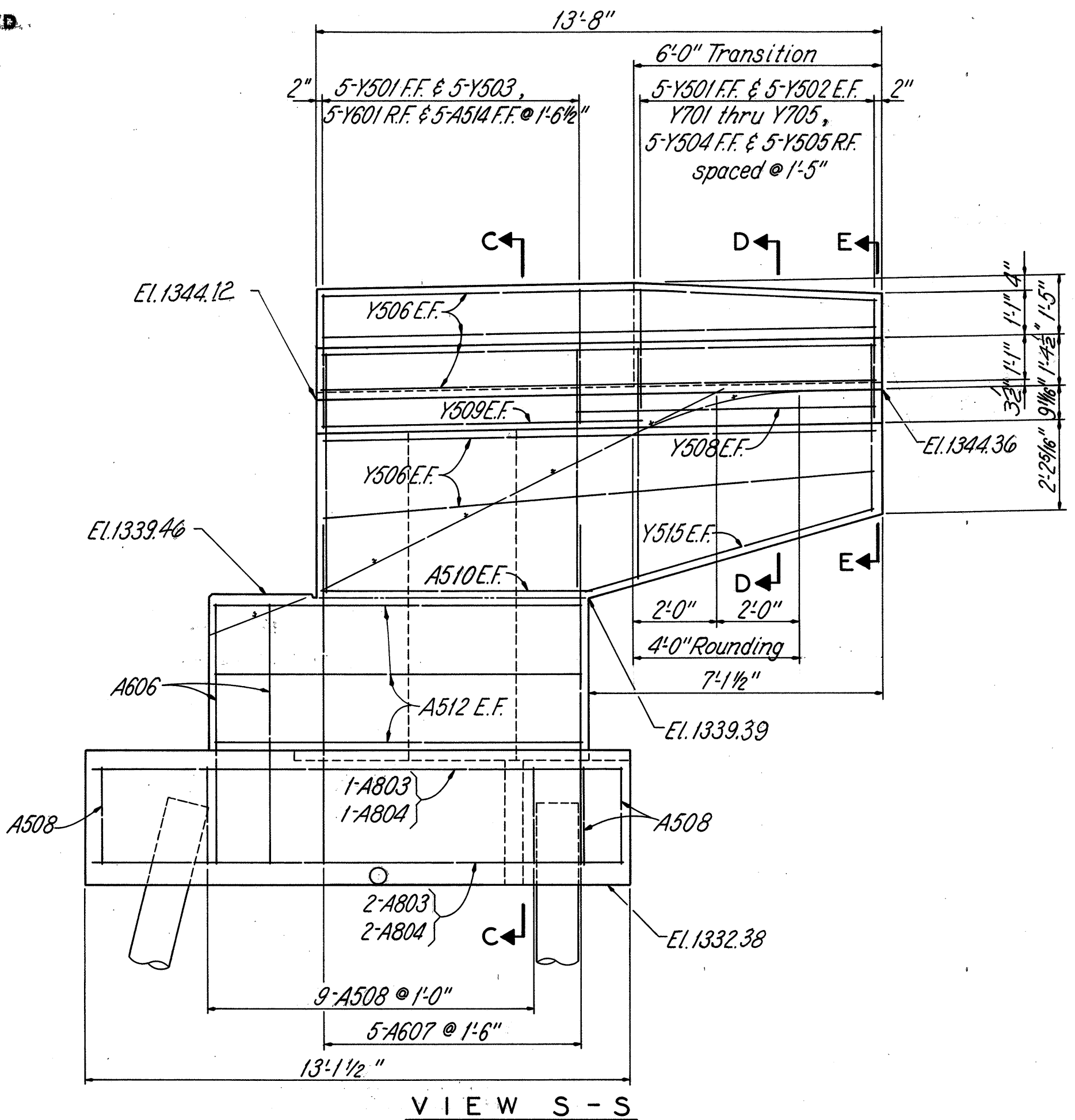
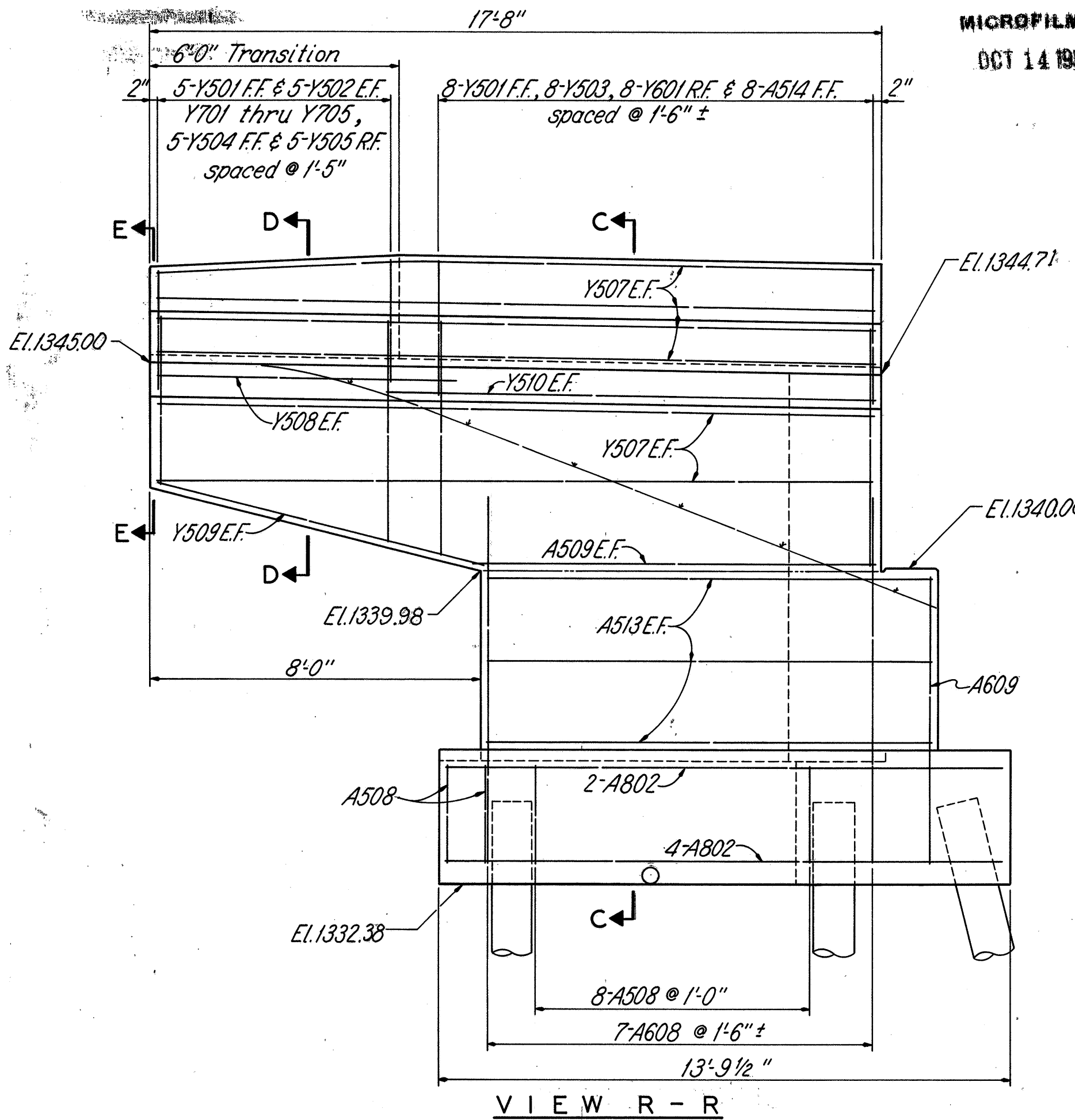


FOOTING PLAN

PARRETT & McCARTNEY CONSULTING ENGINEERS						3/9
MANSFIELD						OHIO
REAR ABUTMENT						
BRIDGE NO. RIC-30-0880						
UNDER HOME ROAD						
RICHLAND COUNTY						U.S.R. 30
STA. 464 + 41.56						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
D.H.T.	U.S.	H.V.	G.S.B.	D.H.T.	4/14/71	

RIC - 30 - 3.92
RIC. C.H. 135

MICROFILMED
OCT 14 1982



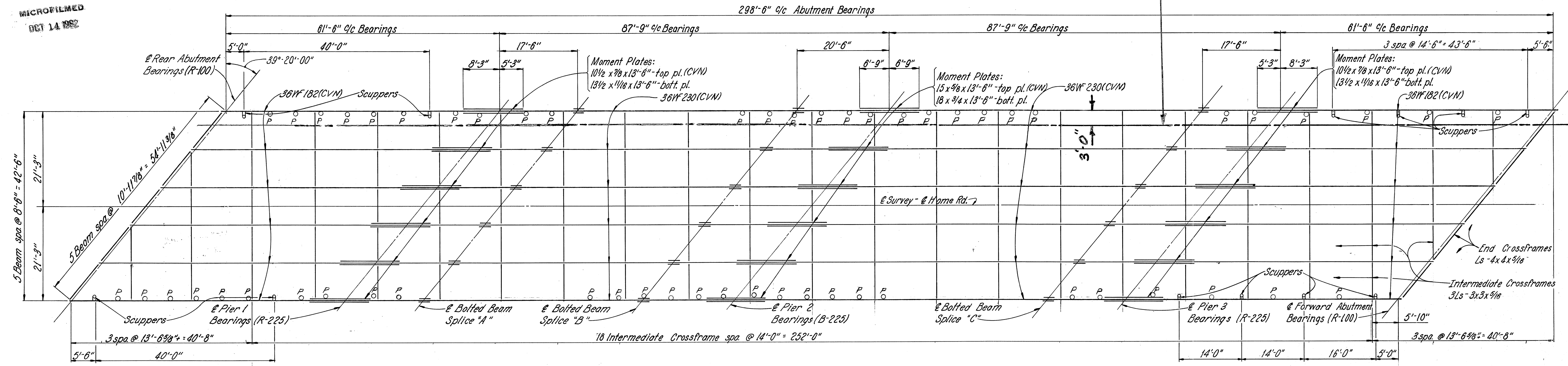
PARRETT & MCCARTNEY		5 / 9	
CONSULTING ENGINEERS		OHIO	
ABUTMENT DETAILS			
BRIDGE NO. RIC - 30 - 0880			
UNDER HOME ROAD			
RICHLAND COUNTY		U.S.R. 30	
STA. 464 + 41.56			
DESIGNED	DRAWN	TRACED	CHECKED
J.S.	J.S.	A.M.	G.S.B.
REVIEWED	DATE	REVISED	
DHT	4/14/71		

MICROFILMED
OCT 14 1982

of 2-4" conduits
Materials and labor to be
supplied by United Telephone
Company of Ohio

FED. RD. DIVISION	STATE	PROJECT	495 618
2	OHIO		

RIC-30-3.92
RIC. C.H.135



STEEL ERECTION: During the erection of end dams and crossframes care shall be taken to insure that stringers, bearing parts and bridge seats remain in bearing contact.

Where "(CVN)" follows a shape or plate size designation, the material shall meet specified minimum notch toughness requirements. The fabricator shall submit to the Director a procedure designed for positive identification of material through all phases of fabrication. No material shall be fabricated until the Director has approved the procedure.

END CROSSFRAMES, END DAMS, SCUPPERS, CURB PLATES, MOMENT PLATE WELDING AND BOLTED BEAM SPLICE: See Standard Drawing SD-1-69, Sheets 1 thru 4 of 4.

PARAPET: See Standard Drawing BR-1-67, Sheet 1 of 3.

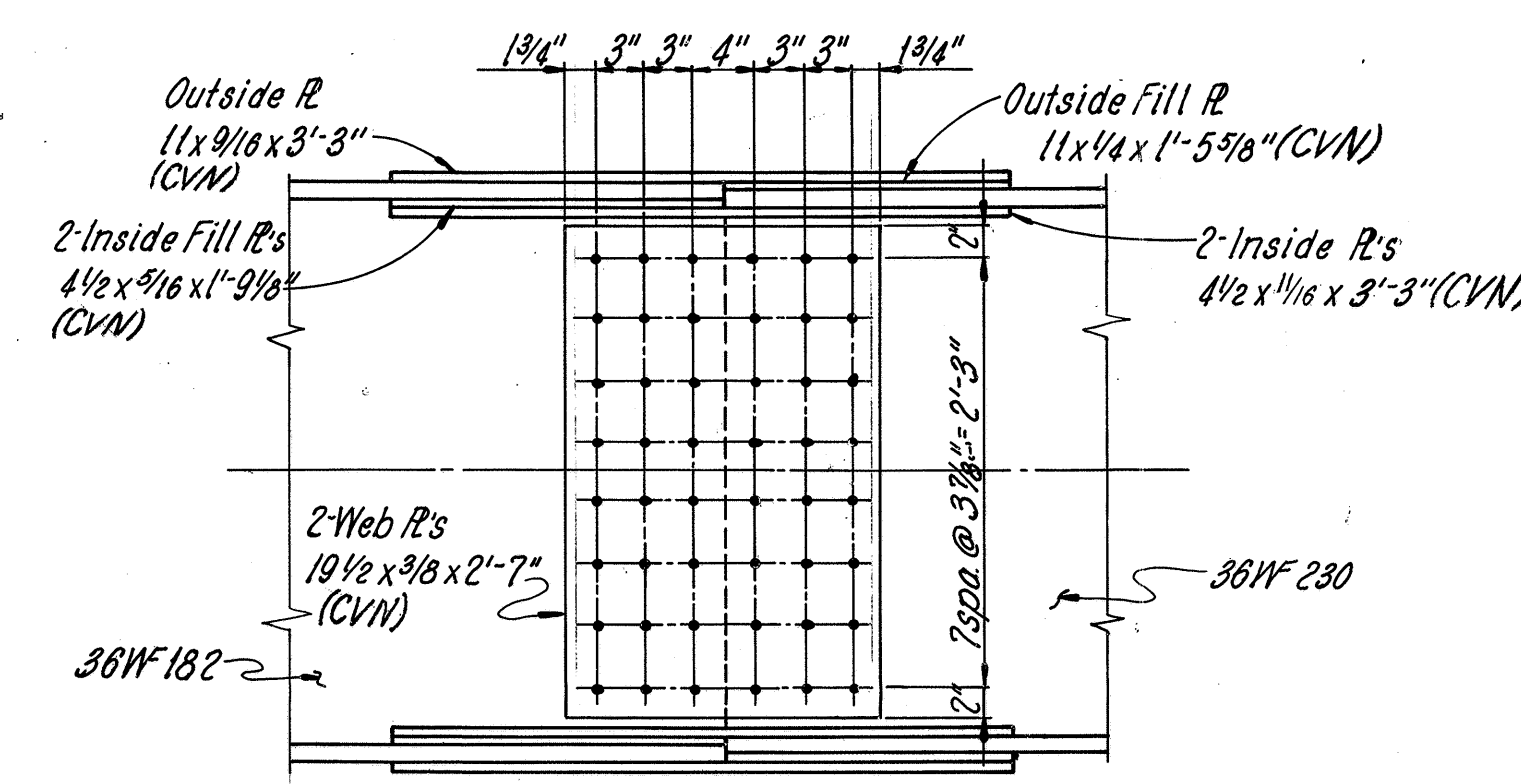
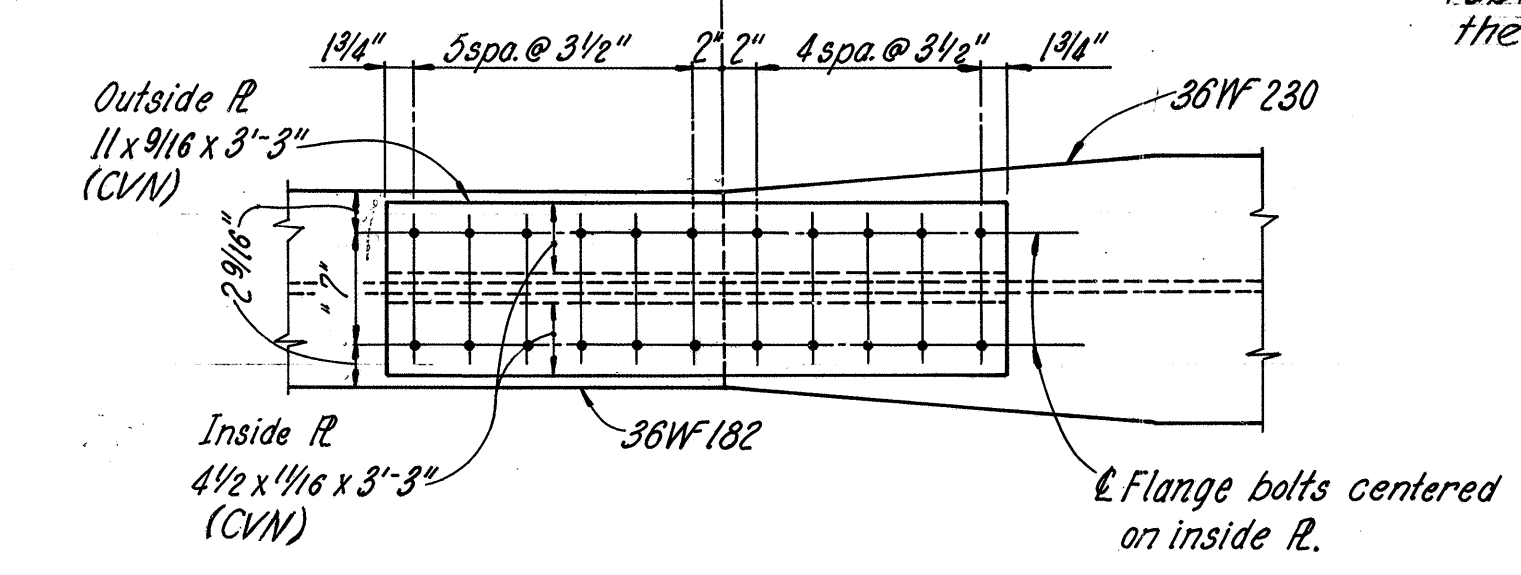
BEARINGS: See Standard Drawing RB-1-55 for the following: R-100 for Abutments, R-225 for Pier 1 & 3 and B-225 for Pier 2.

GENERAL NOTES: See Sheet 2 / 8

PREFORMED EXPANSION JOINT FILLER: See Standard Drawing BR-1-67, Sheet 1 of 3.

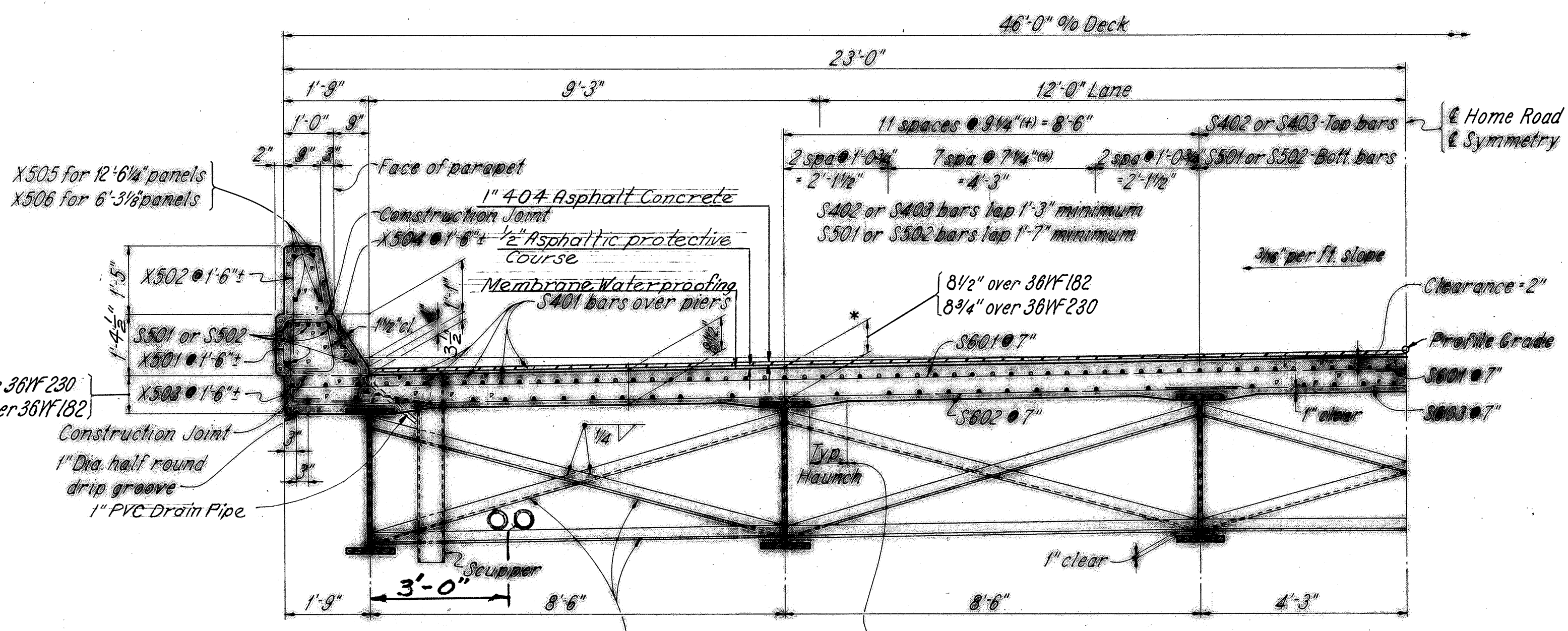
For Subdrainage Details, Scuppers box dimensions and vertical location of Scuppers with respect to the top of asphalt, see sheet 506A, Deck Drainage Details.

SUBDRAINAGE PIPE locations are indicated on sheet 506A for additional location restrictions.



Notes: For additional details, notes and for Bolted Beam Splice "B", see Standard Drawings SD-1-69, Sheet 4 of 4.

Scuppers shall be in accordance with Standard Drawing SD-1-69 except that scupper pipes shall extend 8" below the bottom of the beams instead of 2".



Intermediate crossframe angles 3x3x 9/16. Weld both sides of vertical leg and top side of horizontal leg to beam with 1/4" continuous fillet weld.

A typical 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 be not more than 1:4 for a haunch less than 9" in width.

* 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.

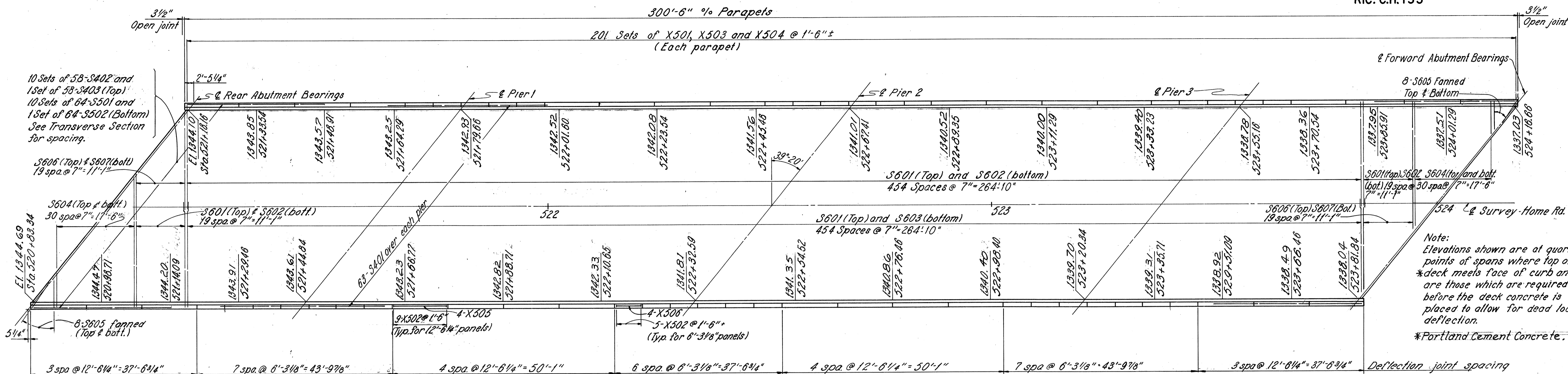
PARRETT & McCARTNEY		7 / 9	
MANSFIELD CONSULTING ENGINEERS		OHIO	
SUPERSTRUCTURE-1			
BRIDGE NO. RIC-30-0880			
UNDER HOME ROAD			
RICHLAND COUNTY		U.S.R. 30	
STA. 464 + 41.56			
DESIGNED	DRAWN	TRACED	CHECKED
DHT	H.A.V.	H.V.	G.S.B.
REVIEWED	DATE	REVISED	
DHT	4/14/71	9-20-76	

MICROFILMED
OCT 14 1982

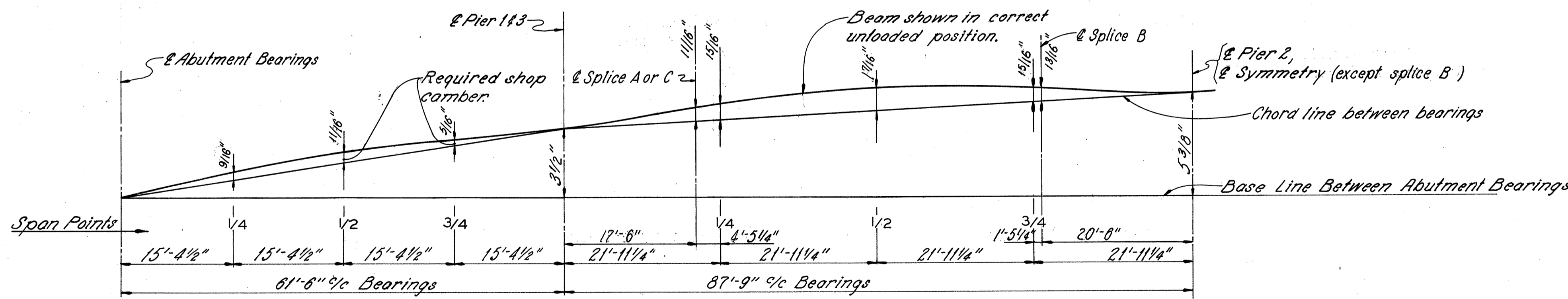


FED. RD. DIVISION	STATE	PROJECT	496 618
2	OHIO		

RIC-30-3.92
RIC. C.H. 135



SLAB PLAN

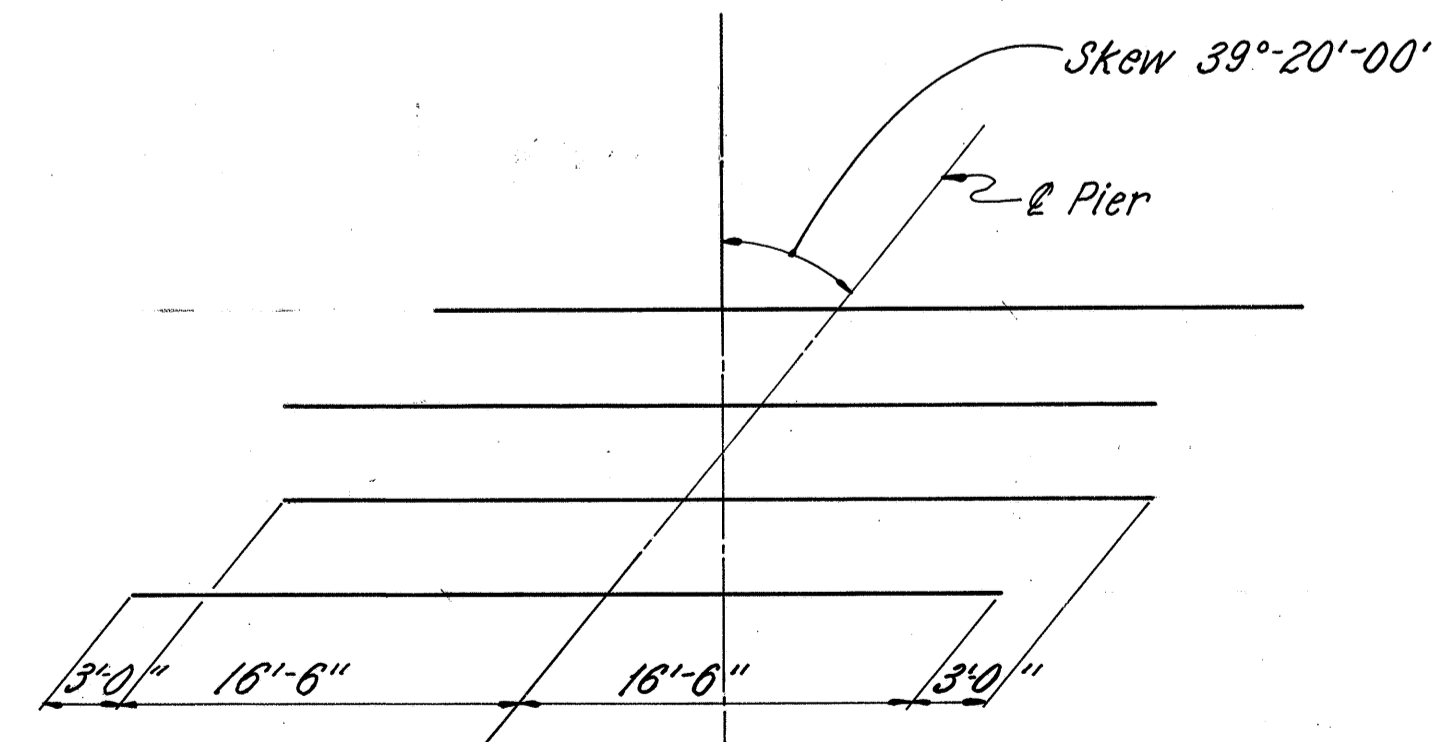


HALF BEAM LAYOUT DIAGRAM

CAMBERING of beams is required in accordance with the following table:

	SPAN 1 OR 4				SPAN 2 OR 3				
	SPAN POINTS	1/4	1/2	3/4	SPLICE A OR C	1/4	1/2	3/4	SPLICE B
Deflection due to weight of steel	1/16"	1/16"	0	1/16"	1/16"	1/8"	1/16"	1/16"	1/16"
Deflection due to remaining dead load	5/16"	3/8"	1/8"	3/8"	1/2"	7/8"	1/2"	7/16"	1/16"
Adjustment required for vertical curve	3/16"	1/4"	3/16"	1/4"	3/8"	7/16"	3/8"	3/16"	1/16"
Required shop camber	3/16"	1/16"	3/16"	1/16"	13/16"	1 1/16"	13/16"	13/16"	13/16"

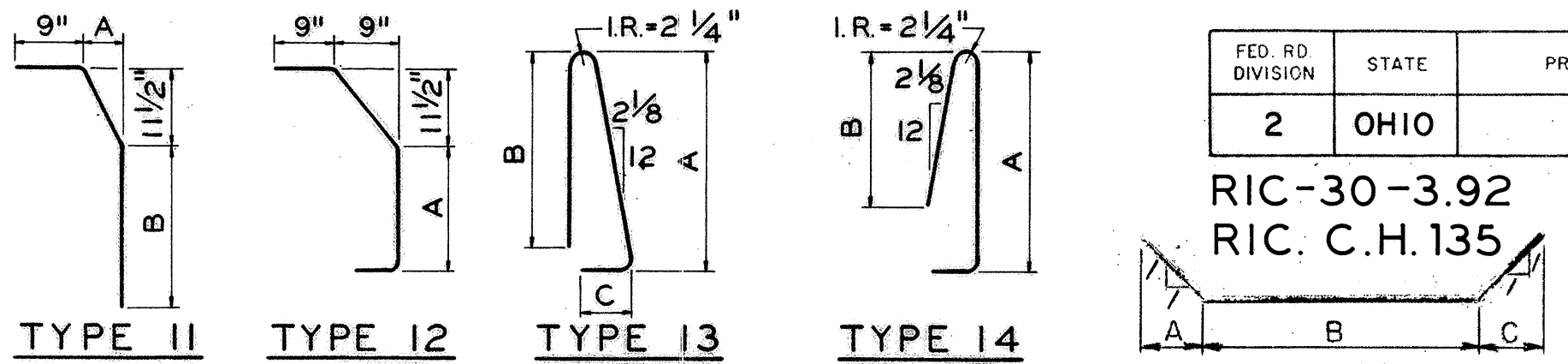
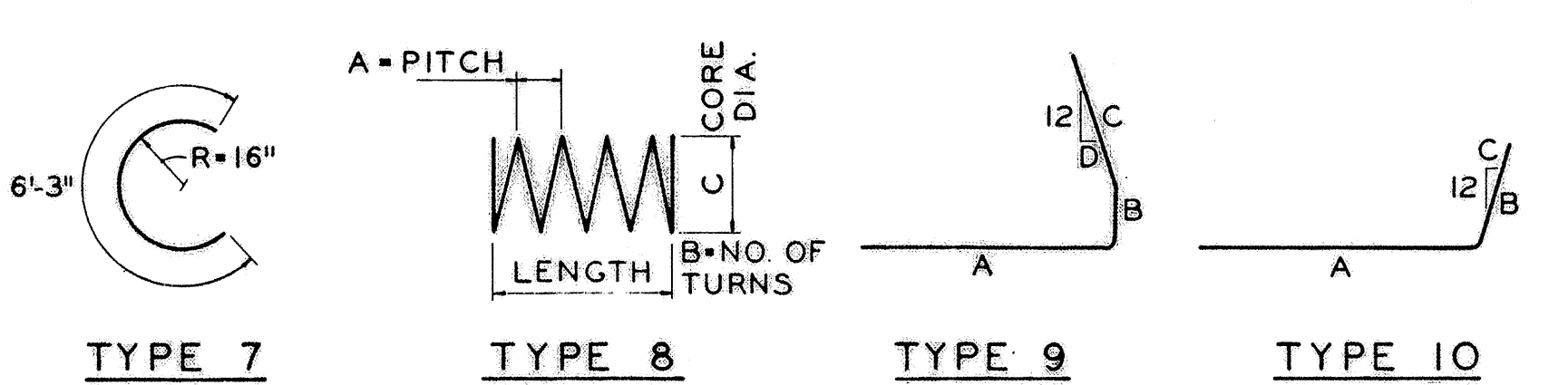
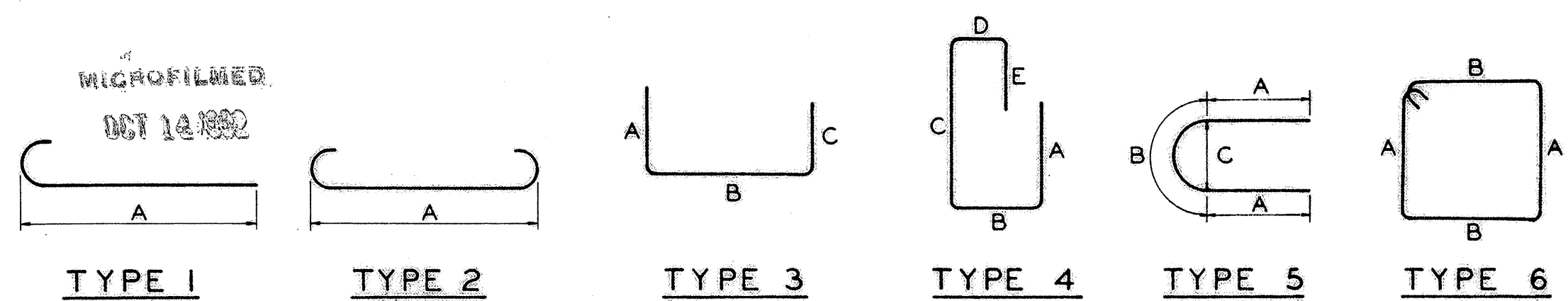
Note: Deflection and Camber symmetrical about @ Pier 2 except bolted field splice "B"



STAGGER OF S401 BARS OVER PIERS

PARRETT & McCARTNEY		8/9
CONSULTING ENGINEERS		OHIO
SUPERSTRUCTURE-2		
BRIDGE NO. RIC-30-0880		
UNDER HOME ROAD		
RICHLAND COUNTY		U.S.R. 30
STA. 464 + 41.56		
DESIGNED	DRAWN	TRACED
D.H.T.	H.A.V.	H.A.V.
CHECKED	REVIEWED	DATE
G.S.B.	D.H.T.	4/14/71

MICROFILMED
OCT 14 1982



FED. RD. DIVISION 2 STATE OHIO PROJECT RIC-30-3.92 RIC. C.H.135

497
618

ABUTMENTS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A501	80	8'-5"	3	1'-8"	3'-4"	1'-8"			702
A502	64	7'-4"	3	6'-8"	10"	0			490
A503	80	7'-6"	3	2'-2"	3'-5"	2'-2"			626
A504	60	30'-0"	Str.						1,877
A505	4	35'-0"	Str.						146
A506	4	12'-6"	Str.						52
A507	16	7'-0"	3	6'-3"	10"	0			117
A508	43	10'-11"	6	2'-2"	3'-0"				490
A509	2	9'-9"	Str.						20
A510	6	6'-8"	Str.						41
A511	6	10'-4"	Str.						65
A512	12	8'-9"	Str.						110
A513	6	10'-8"	Str.						67
A514	25	5'-3"	Str.						137
A515	2	9'-0"	Str.						19
A601	64	14'-3"	3	6'-8"	5'-4"	2'-7"			1,370
A602	154	9'-2"	3	4'-0"	1'-5"	4'-0"			2,120
A603	62	6'-5"	3	2'-8"	1'-5"	2'-8"			598
A604	62	6'-11"	3	3'-2"	11"	3'-2"			644
A605	16	13'-10"	3	6'-3"	5'-4"	2'-7"			332
A606	2	6'-3"	Str.						19
A607	12	17'-6"	3	8'-4"	1'-2"	8'-4"			315
A608	12	18'-10"	3	9'-0"	1'-2"	9'-0"			339
A609	3	6'-10"	Str.						31
A610	1	5'-11"	Str.						9
A801	28	31'-10"	Str.						2,380
A802	6	13'-5"	Str.						215
A803	6	11'-6"	Str.						184
A804	6	12'-9"	Str.						204
A805	6	13'-2"	Str.						211
Y501	45	2'-0"	3	7/8"	1'-0"	7/8"			94
Y502	40	2'-10"	Str.						118
Y503	25	6'-6"	14	3'-1"	2'-10"				169
Y504	10	Varies	Str.	1'-10" to 3'-3"		2sets of 5	Varies each		27
Y505	10	Varies	Str.	3'-1" to 4'-6"		2sets of 5	by 4 1/4"		40
Y506	12	13'-4"	Str.						167
Y507	12	17'-4"	Str.						217
Y508	8	7'-3"	Str.						60
Y509	4	7'-8"	Str.						32
Y510	2	11'-8"	Str.						24
Y511	5	Varies	Str.	1'-10" to 2'-11"		1set of 5	Varies each by		12
Y512	5	Varies	Str.	3'-1" to 4'-2"		1set of 5	3 1/4"		19
Y513	12	12'-8"	Str.						139
Y514	12	16'-2"	Str.						202
Y515	6	7'-3"	Str.						45
Y516	2	10'-6"	Str.						22
Y517	5	Varies	Str.	1'-10" to 3'-1"		1set of 5	Varies each		13
Y518	5	Varies	Str.	3'-1" to 4'-4"		1set of 5	by 3 3/4"		19
Y601	13	6'-8"	11	9"	4'-10"				130
Y602	12	6'-4"	11	9"	4'-6"				114
D801	42	6'-7"	15	1'-1"	4'-6"	6"			738
Y701	4	4'-4"	1	3'-6"					35
Y702	4	4'-9"	11	2 1/4"	3'-2"				39
Y703	4	4'-10"	11	4"	3'-2"				40
Y704	4	4'-11"	11	6"	3'-2"				40
Y705	4	5'-0"	11	9"	3'-2"				41

Total Weight 16,546

PIERS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
SP401	4	17'-4"	8	4 1/2"	44	2'-8"			1,307
SP402	4	15'-5"	8	4 1/2"	40	2'-8"			1,170
SP403	4	14'-2"	8	4 1/2"	41	2'-8"			1,081
P501	264	8'-9"	3	3'-2"	2'-8"	3'-2"			2,409
P502	192	7'-11"	3	3'-2"	1'-10"	3'-2"			1,585
P503	12	28'-4"	Str.						355
P504	12	7'-8"	5	1'-8"	4'-2"	2'-8"			94
P701	120	10'-8"	2	9'-0"					2,616
P801	120	11'-11"	2	9'-9"					3,818
P1101	120	7'-11"	3	6'-3"	2'-0"	0			5,047
P1102	27	36'-0"	Str.						5,164
P1103	30	17'-0"	3	14'-4"	3'-0"	0			2,710
P1104	10	22'-2"	3	20'-6"	2'-0"	0			1,178
P1105	30	20'-4"	Str.						3,241
P1106	10	20'-3"	3	18'-7"	2'-0"	0			1,076
P1107	30	18'-5"	Str.						2,935
P1108	10	19'-0"	3	17'-4"	2'-0"	0			1,009
P1109	78	17'-3"	Str.						7,149
P1110	24	29'-0"	Str.						3,698

Total Weight 47,642

SUPERSTRUCTURE

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
X501	402	2'-0"	3	7/8"	1'-0"	7/8"			839
X502	452	5'-4"	13		2'-2"				2,514
X503	402	2'-1"	3	0	1'-7"	7/8"			873
X504	402	3'-1"	12	9"					1,293
X505	112	12'-2"	Str.						1,421
X506	160	5'-11"	Str.						987
S401	189	36'-0"	Str.						4,545
S402	380	30'-0"	Str.						11,623
S403	58	12'-0"	Str.						465
S501	640	30'-0"	Str.						20,026
S502	64	15'-4"	Str.						1,024
S601	950	23'-10"	Str.						34,008
S602	495	19'-7"	Str.						14,360
S603	455	28'-0"	Str.						19,135
S604	124	Varies	Str.	8'-0" to 29'-3"	4sets of 31'	vary each by 8 1/2"			3,469
S605	32	7'-3"	Str.						348
S606	40	Varies	Str.	8'-4" to 21'-9 1/2"	2sets of 20'	vary each by 8 1/2"			905
S607	40	Varies	Str.	12'-6 1/2" to 26'-0"	2sets of 20'	vary each by 8 1/2"			1,158

Total Weight 119,193

NOTES:

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "NO. of Turns" shown is the "Length" divided by the pitch, plus three turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformation but shall in other respects conform to Item 509. 1/2 closed coils shall be provided at the ends of each spiral unit. Four steel channels, tee or angle spacers, weighing approximately 0.80 lbs. per lin. ft. of spacers, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.80 lbs. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

Refer to GMS Sections 106.03, 700, 709.01 thru 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.

PARRETT & McCARTNEY
CONSULTING ENGINEERS
MANSFIELD, OHIO 9/9

REINFORCING STEEL
BRIDGE NO. RIC-30-0880
UNDER HOME ROAD
RICHLAND COUNTY U.S.R. 30

STA. 464 + 41.56

DESIGNED G.S.B.	DRAWN H.A.V.	TRACED H.V.	CHECKED D.H.T.	REVIEWED U.	DATE 4/14/77
--------------------	-----------------	----------------	-------------------	----------------	-----------------