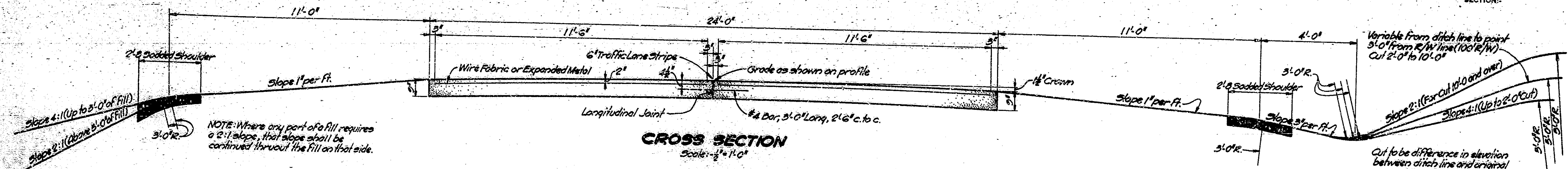
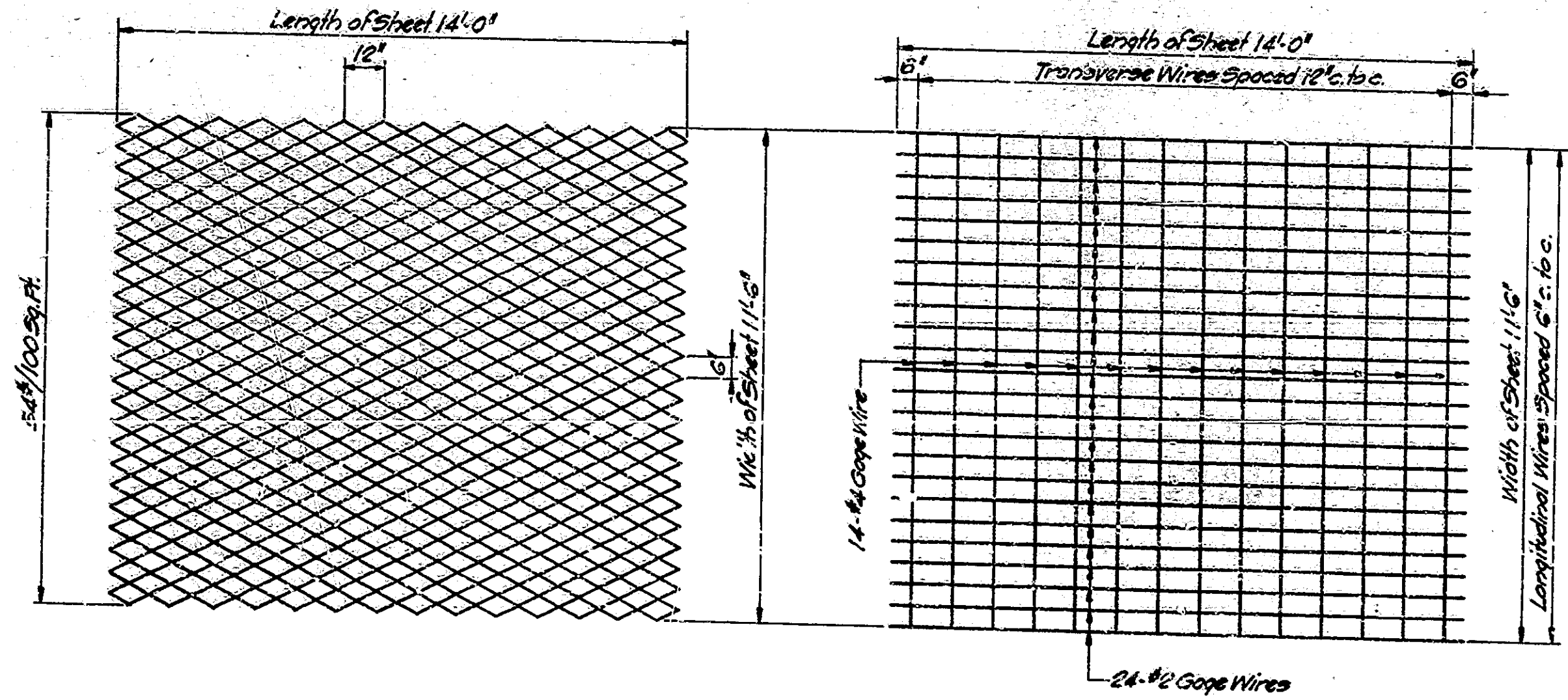


PUBLIC ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-1346	1960	2	26

SECTION:



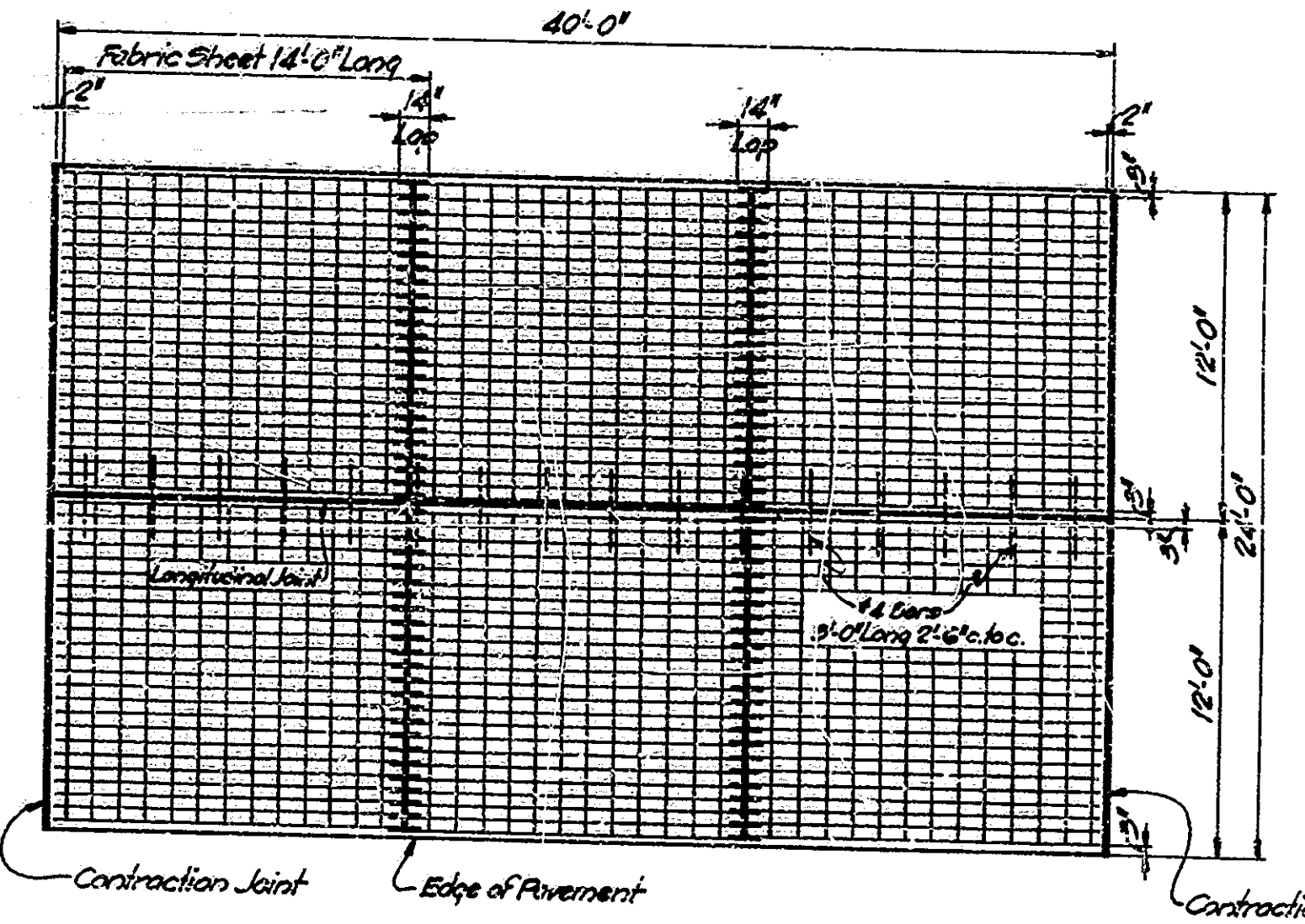
CROSS SECTION
Scale: 1/4" = 1'-0"



TYPICAL SHEET EXPANDED METAL FABRIC
Scale: 1/8" = 1'-0"

TYPICAL SHEET WIRE FABRIC
Scale: 1/8" = 1'-0"

REINFORCED CONCRETE PAVEMENT



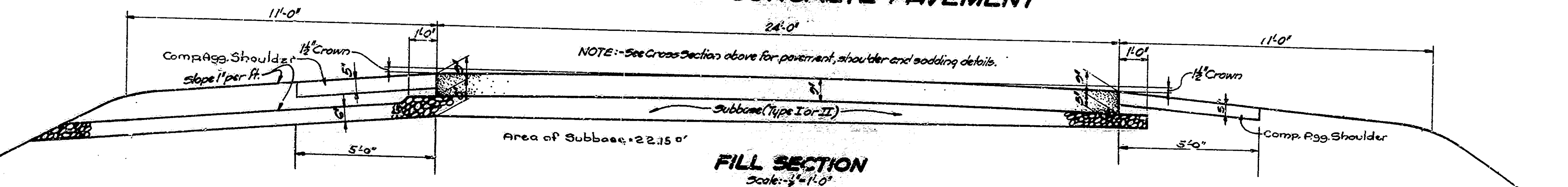
PLAN OF REINFORCED CONCRETE SLAB
Scale: 1/8" = 1'-0"

Variable from ditch line to point 3'-0" from R/W line (100% R/W) Cut 2'-0" to 10'-0"

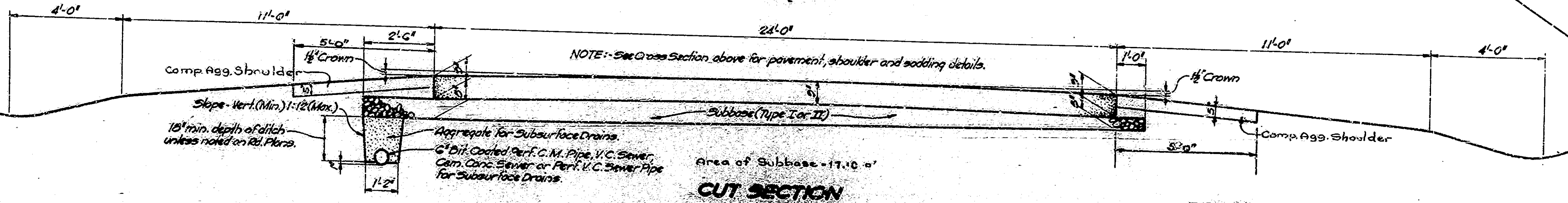
Cut to be difference in elevation between ditch line and original ground line at a point 3'-0" from R/W line (100% R/W)

NOTE:-- If the contractor elects, he will be permitted to use fabric sheets 10'-5" long with a 12" transverse lap instead of length of sheets and lap as shown.

NOTE:-- Where it becomes necessary to make a longitudinal lap of fabric sheet due to widened pavement, the mesh shall be lapped not less than 6"



FILL SECTION
Scale: 1/4" = 1'-0"



CUT SECTION
Scale: 1/4" = 1'-0"

TYPICAL SUBBASE SECTIONS

NOTE:-- A grade post (Type 'A') is to be set at outlet of subsurface drain at exact location as directed by the engineer in order to preserve the location of the subsurface drain.

TYPICAL CROSS SECTIONS

SCALE:-- AS NOTED

RECOMMENDED FOR APPROVAL

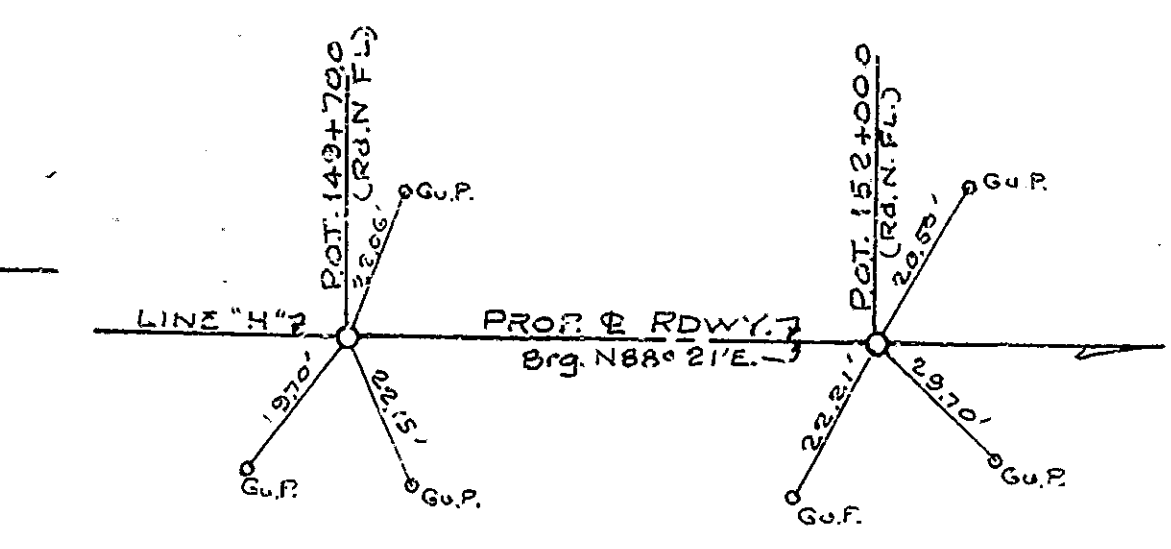
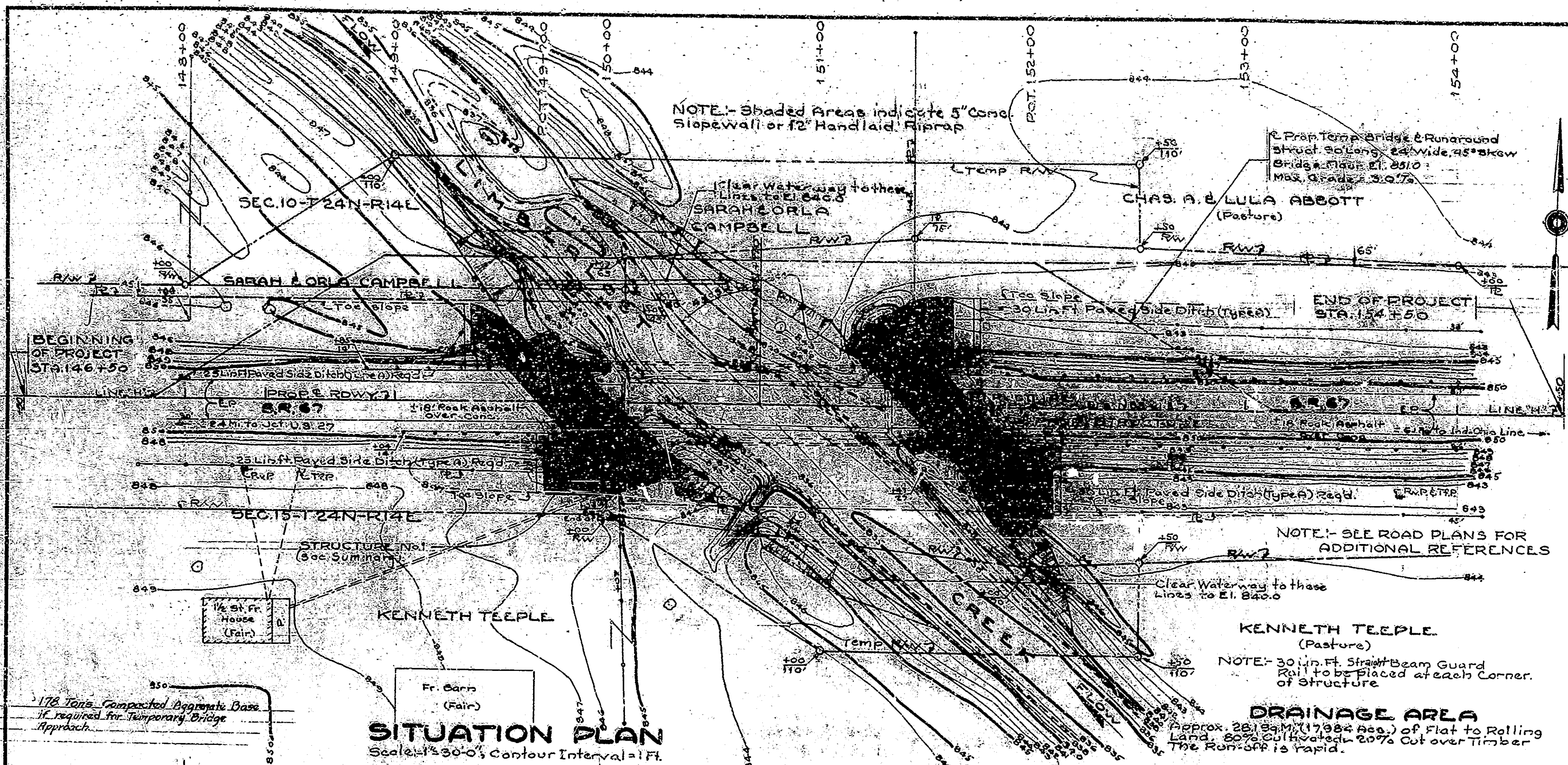
BRIDGE CONTRACT:-- 5495

BRIDGE FILE:-- 67-5-4233

JANUARY 14 1962
C. B. Rummel
ENGINEER OF BRIDGE DESIGN

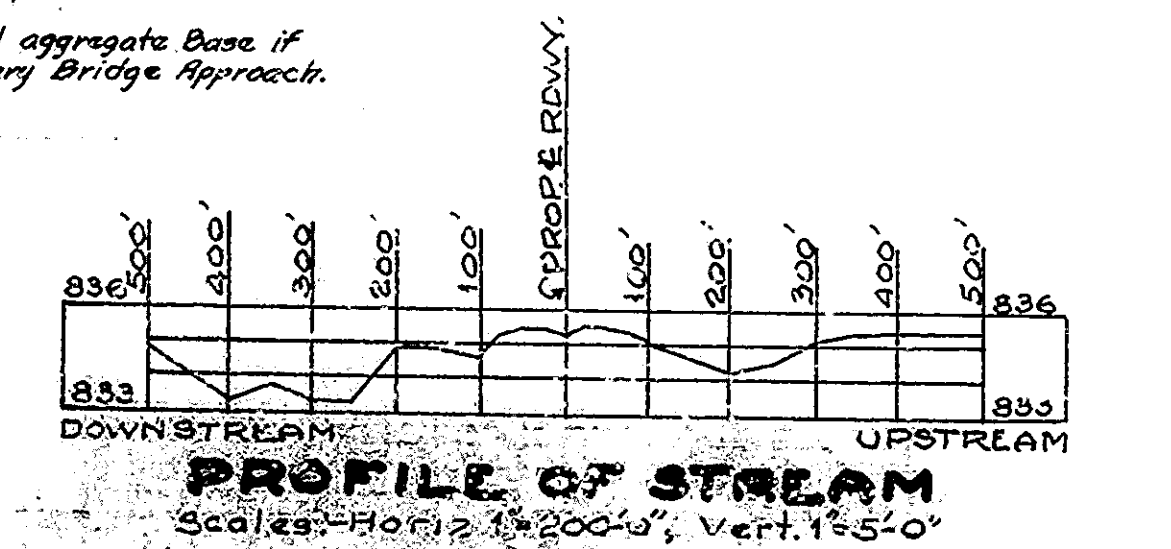
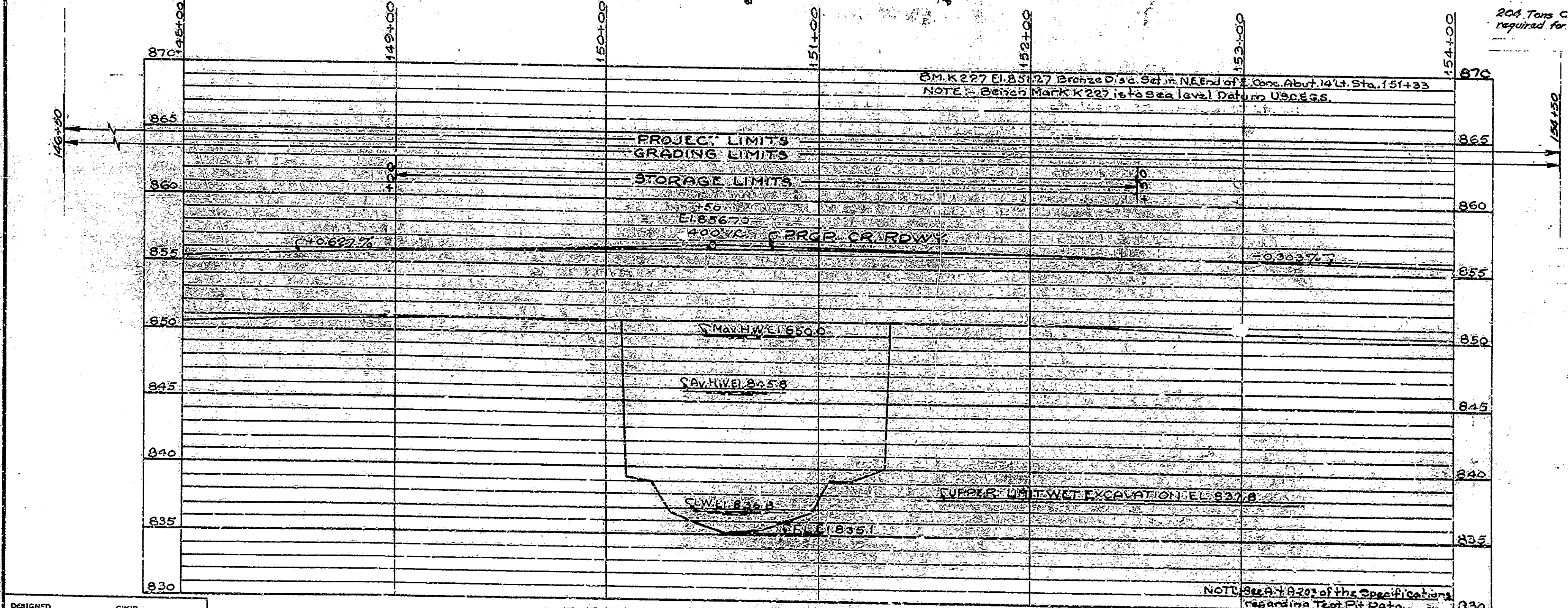
BRIDGES OVER 20' SPAN				
NO. ROAD	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	F136	1960	26

UTILITY OWNERS	
Pw. Lines - Ind. Mich.	Ft. Wayne Ind.
T.F. Lines - Citizens Tel. Co. Desatur, Ind.	



REFERENCES
Set by Bridge Dept.
Not to Scale

PRESENT STRUCTURE
Built in 1928 by STATE HIGHWAY DEPARTMENT OF INDIANA as 67-3-785, Contract No. 217, Steel Truss, 13 span of 124'0", 19'2" Roadway, Square. Plans on file in Bridge Design Office.
STRUCTURAL STEEL WGT. = 61.75 TONS



FILL @ 20%	10,380 CU.YDS.
SURPLUS EXCAVATION	3,900 CU.YDS.
SPECIAL BORROW	3,480 CU.YDS.

LAYOUT
CONTINUOUS REIN. CONC. GIRDER BRIDGE
5 SPANS - SEE GEN'L. PLAN, 45' SK. LT., 2 W.LKS. 30' RDWY.
OVER LIMBERLOST CREEK ON STATE ROAD 67-S
STATE HIGHWAY DEPARTMENT OF INDIANA
JAY COUNTY

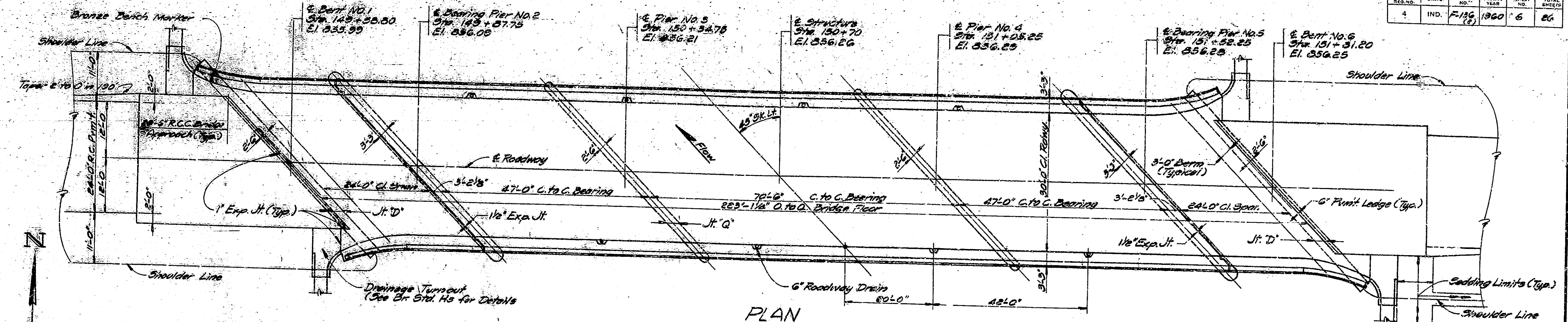
SCALE: AS NOTED JANUARY 11, 1960.
RECOMMENDED FOR APPROVAL: *C.R. Rimmer*
DRAWING: C1 of 10
PROJECT: F-1360 STATION: 150+70
BRIDGE CONTRACT NO. 5495
BRIDGE FILE: 67-3-4833

DESIGNED: C.W.D.
DRAWN: J.L.T. - S.D.C. 100697-52
TRACED: W.F.B. 2-21-52 C.W.D. E.W.K. 10-6-52

PROFILE ON PROPOSED ROADWAY
Scale: - Horiz. 1"=20'0", Vert. 1"=5'0"

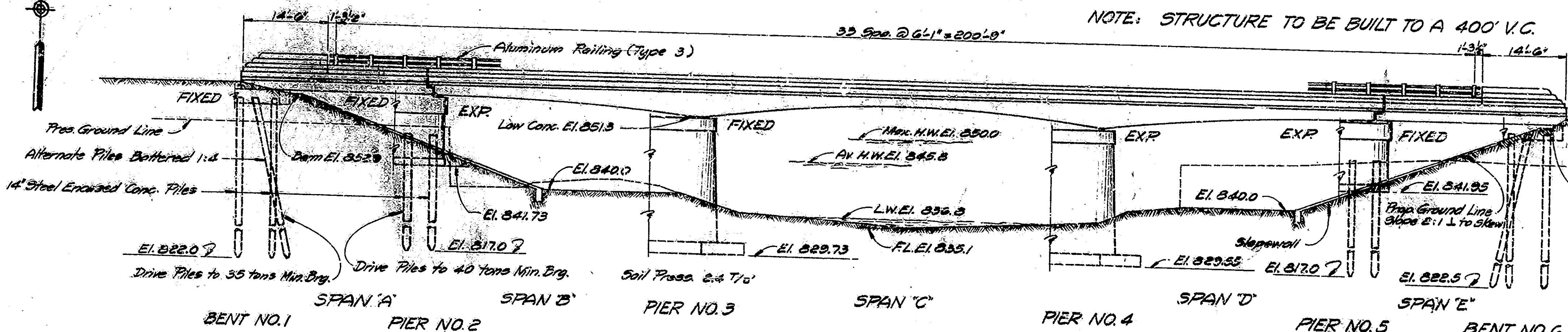
NOTE: - FIELD NOTE 3, BOOK BR. 1589, Pages 25 to 55
Rev. 1-8-62 - El. Temp. Br. Adj. Limb. Earthwork
Rev. 12-26-61 Beam Gu. Rail

BRIDGES OVER 20' SPAN					
RIS. ROAD NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-136 (2)	1960	6	26



PLAN

NOTE: STRUCTURE TO BE BUILT TO A 400' V.C.



ELEVATION

JOINT LEGEND

Jt. D indicates 1/2 inch preformed joint filler under front 6 inches of girder bearing area.
 Jt. Q See cap detail pier #3 for detail.
 Expansion Joint see Bridge Standard C.

DESIGN DATA

Designed for HS-20 loading in accordance with 1957 A.A.S.H.O. Specifications, except floor slab designed for 16000 lbs. wheel load.

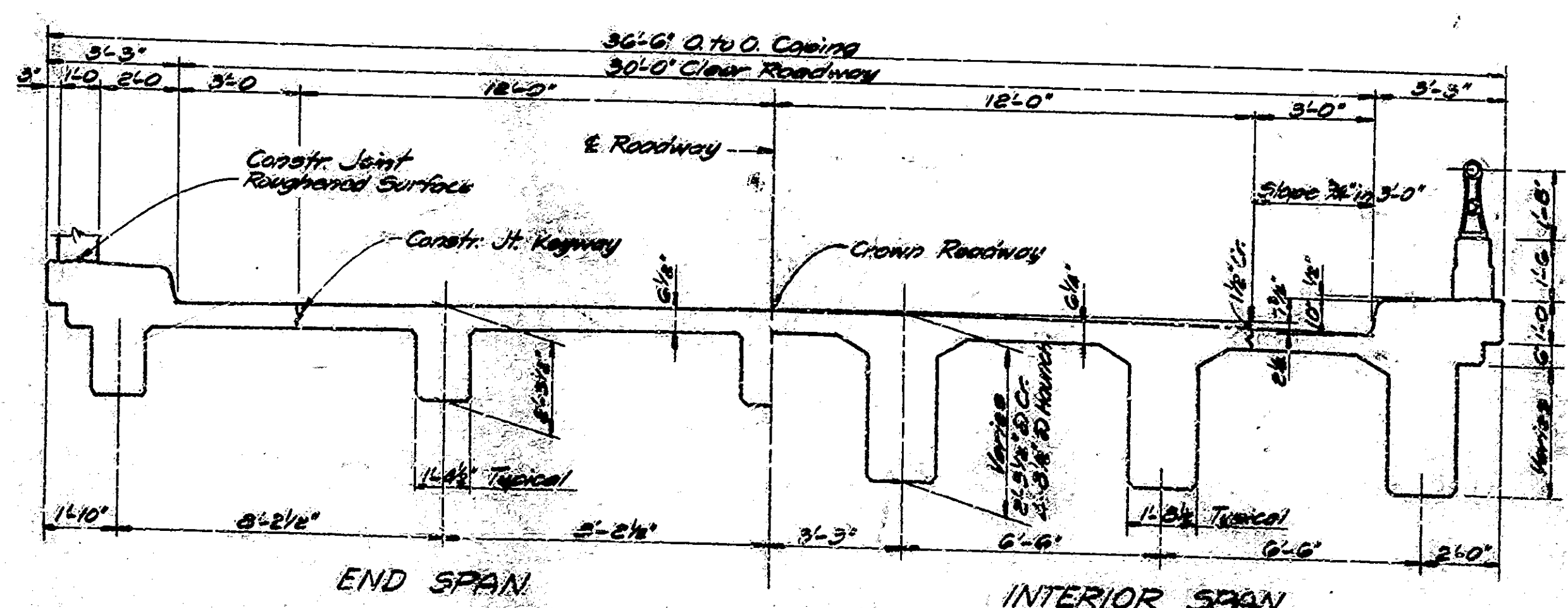
TYPICAL CROSS SECTION See Sheet No. 2

GENERAL NOTES

Depth of footings to be extended if found necessary. See Art. 840.2(c) of Specifications.
 Piles shall have minimum bearing value shown on detail drawings. Determine pile lengths by Art. 850.3 of Specifications.
 For details of steel and cast concrete piles see Bridge Standard C. and applicable articles in the Specifications.
 Piles shall be driven to elevations shown on plans or below if necessary to obtain desired bearing.
 Riving steel sheet piling shall be 1 inch in floor slabs, 3 inches in footings, except bottom steel which shall be 4 inches, and 2 inches in all other parts unless noted.
 Concrete in footings and pier stems to be class "E".
 Concrete in superstructure, including railing, bent caps and top piers shall be class "A" construction and to be class "E".
 Cast-in-place concrete piles, concrete slopewall and paved bridge deck to be class "D".
 Continuous concrete shall be required between construction joints as shown on detail drawings.
 Welding shall be in accordance with Specifications.
 Bent caps to be cast in place, and shall be spaced at least 1 inch from piles.
 A bearing surface of 1/2 inch to be placed as shown on this drawing.
 Concrete shall be placed or alternate 15' headlead slopewalls shall be placed as shown on layout.
 All materials to be constructed in accordance with Specs.
 Traffic expansion joints with lead transfer to be placed as shown on Br. Std. M5.
 See special provisions for items included in this contract.

STANDARD DRAWINGS

BR STD	RD STD	PURPOSE
C		Pile sheet piling, Reinforcing Bar Notes
G	3-8	Permanent Construction Joints
M		Drainage Pipes and Details 1/2"
M		Drainage Pipe Details
M		Slopewall Top Reinforcement
M		Concrete Slopewall
R-1		Reinforcing Bar Details
T-1		Top of Deck
T-2		Top of Deck
M		Detail of Deck



HALF SECTIONS

Scale: 3/8" = 1'-0"

GENERAL PLAN
 CONTINUOUS REINFORCED CONCRETE GIRDER BRIDGE
 5 SPANS: SEE PLAN 3K.45' LT. 30' ROADWAY & 2' WALKS
 OVER LIMBERLOST CREEK ON STATE ROAD 67-S
 STATE HIGHWAY DEPARTMENT OF INDIANA

JAY COUNTY
 SCALE: 3/8" = 1'-0" UNLESS NOTED JANUARY 4, 1960

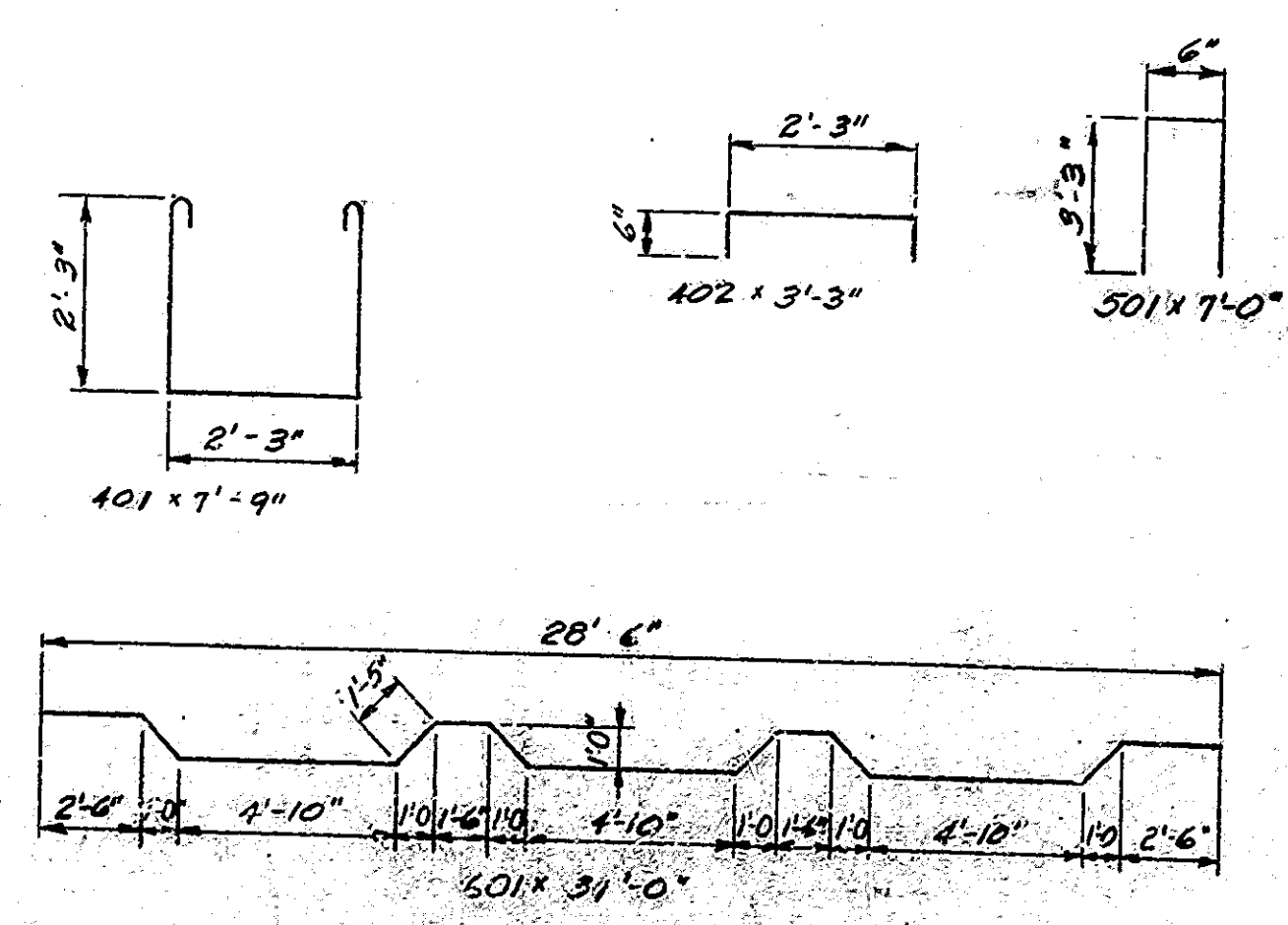
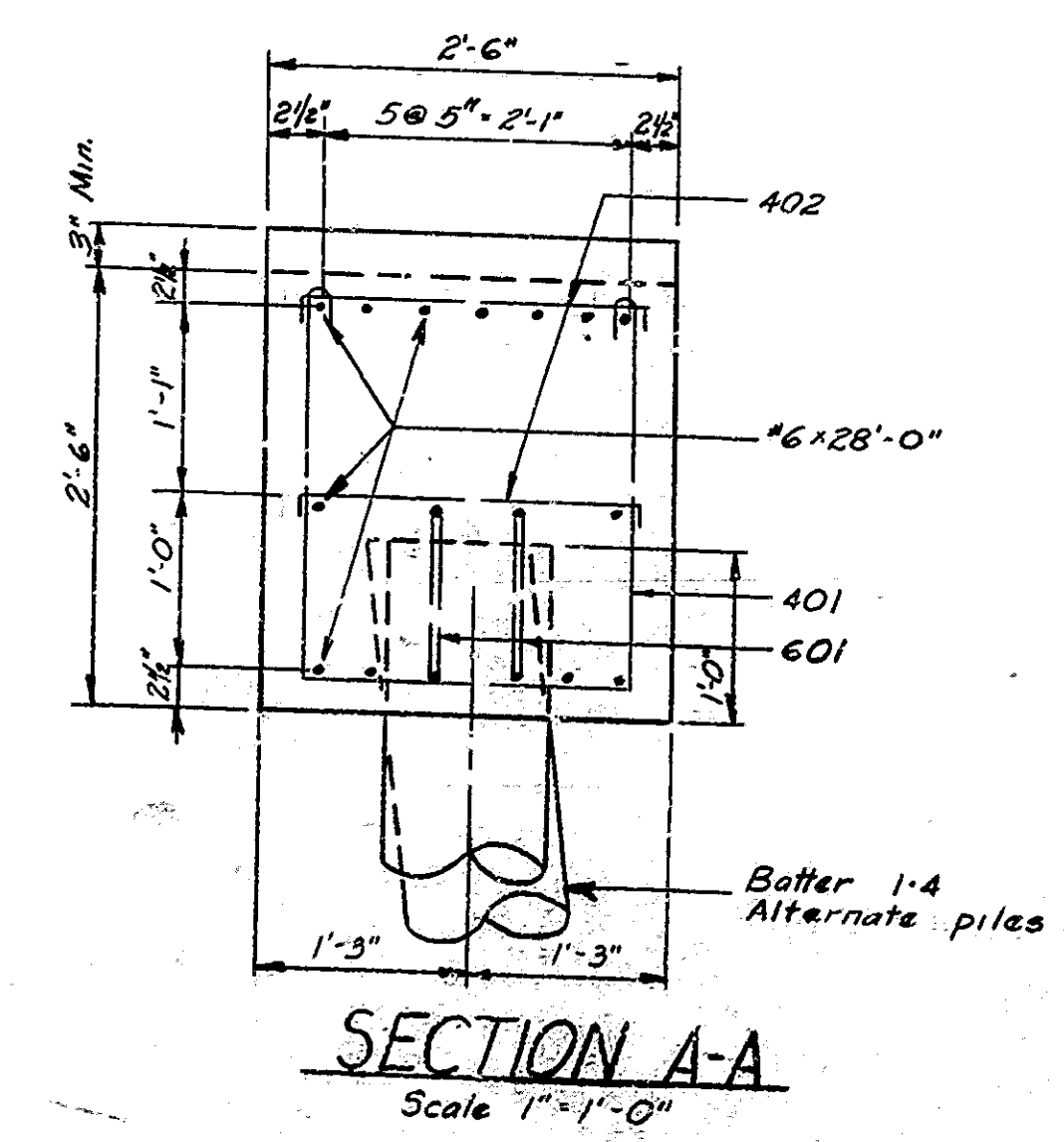
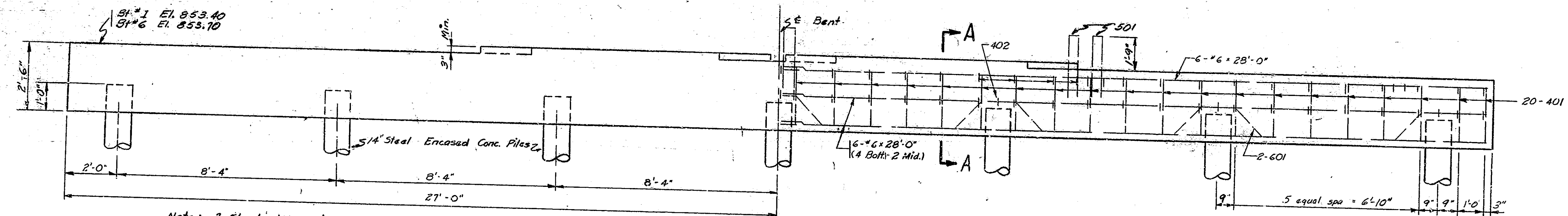
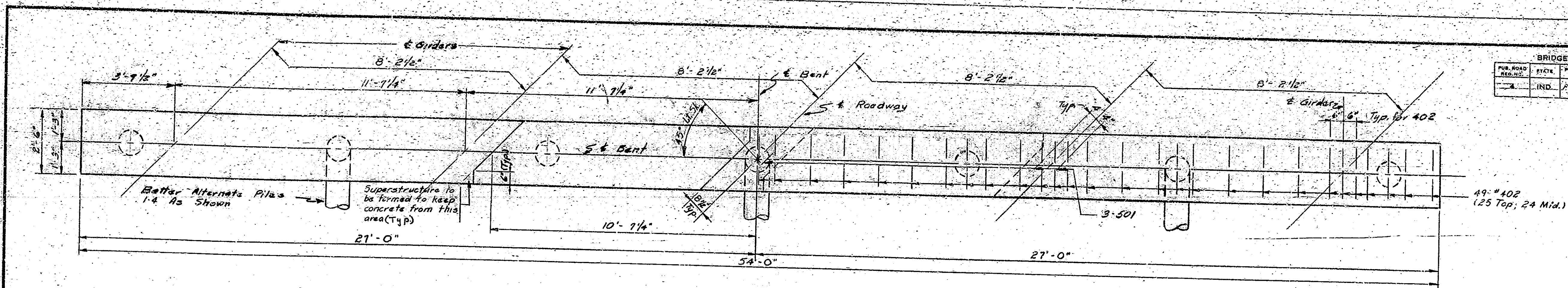
RECOMMENDED FOR APPROVAL: *C.R. Reimer*

DRAWING: G-2 OF 10
 PROJECT: F-136 (2) STA 150+70
 BRIDGE CONTRACT NO. 5495
 BRIDGE FILE: 67-5-40.23

Rev. 12-26-61 Traffic Strip, Std. Dates
 Rev. 1-5-62 Typical Cross Section
 Rev. 1-14-62 Typical Cross Section, Pmt. Jt.

DESIGNED: CKD
 DRAWN: M.P. (1/15/60) CKD
 TRACED: CKD

BRIDGES OVER 20' SPAN					
FOR ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
REQUIRE		NO.	YEAR	NO.	SHEETS
IND.		F-136	1960	7	26



BILL OF MATERIALS
BENT NO. 1 (NO. 6 SAME)

REINFORCING STEEL			
Size & Mark	No.	Length	Weight (Lbs)
601	4	31'-0"	
6	24	28'-0"	1196#
Total Steel 1196#			
501	6	7'-0"	44#
401	40	7'-9"	
402	96	3'-3"	415#
Total Steel 1655#			
CONCRETE			
Class	F-136	CP	1300ys
MISCELLANEOUS			
7 Steel encased Concrete Piles			
18' x 130' 1 1/2" dia			210 WIR.

DETAILS ~ BENT NO. 1 & NO. 6
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: 1/2" = 1'-0" Unless Noted
JANUARY 12, 1960

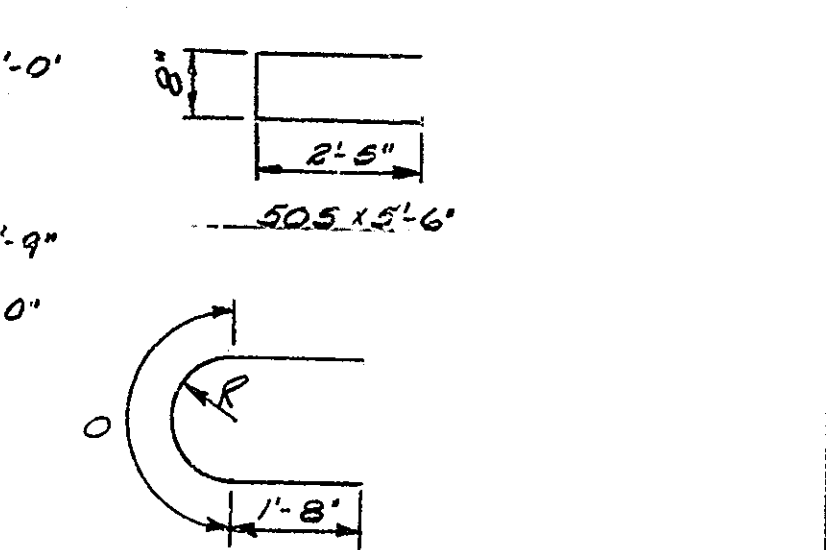
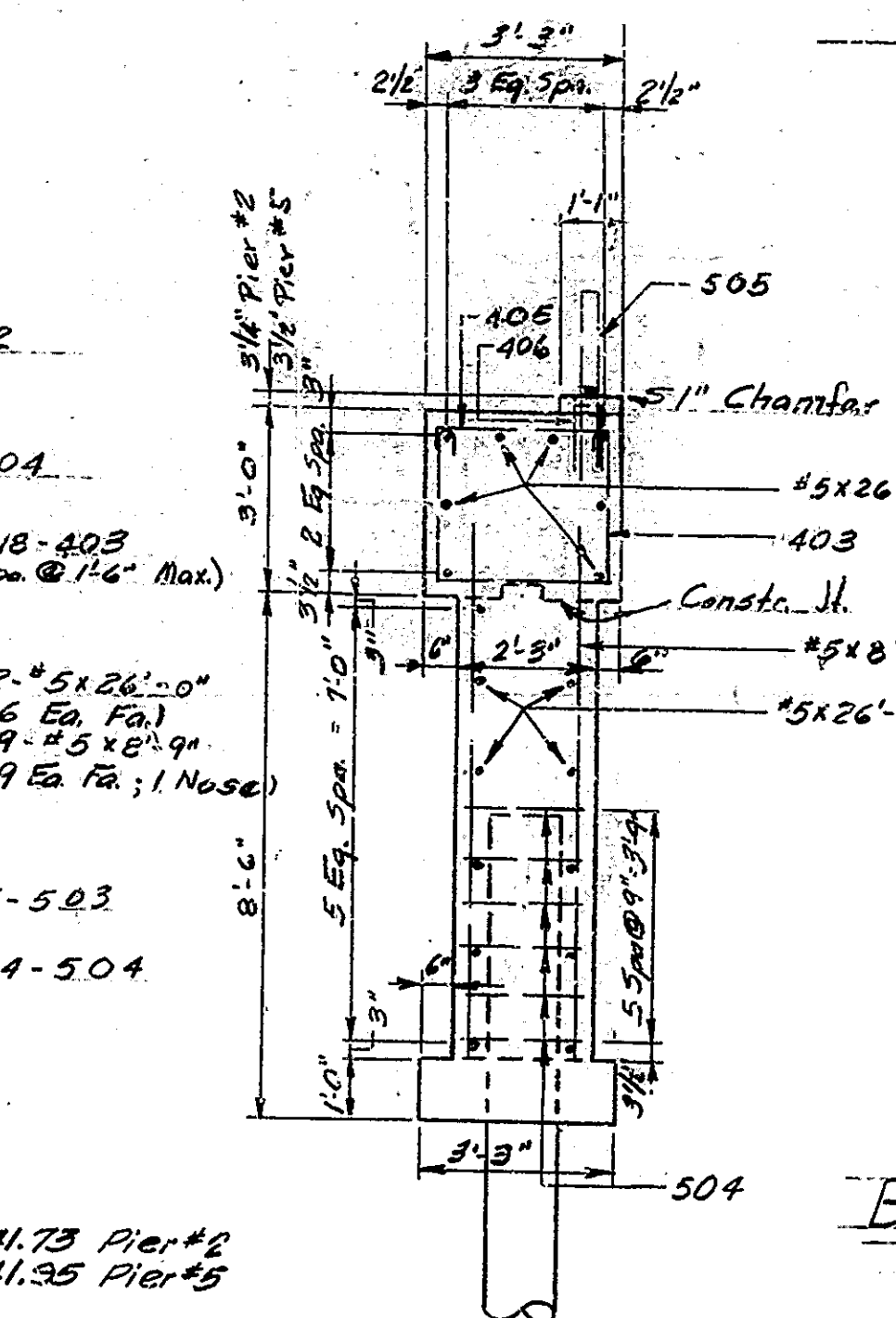
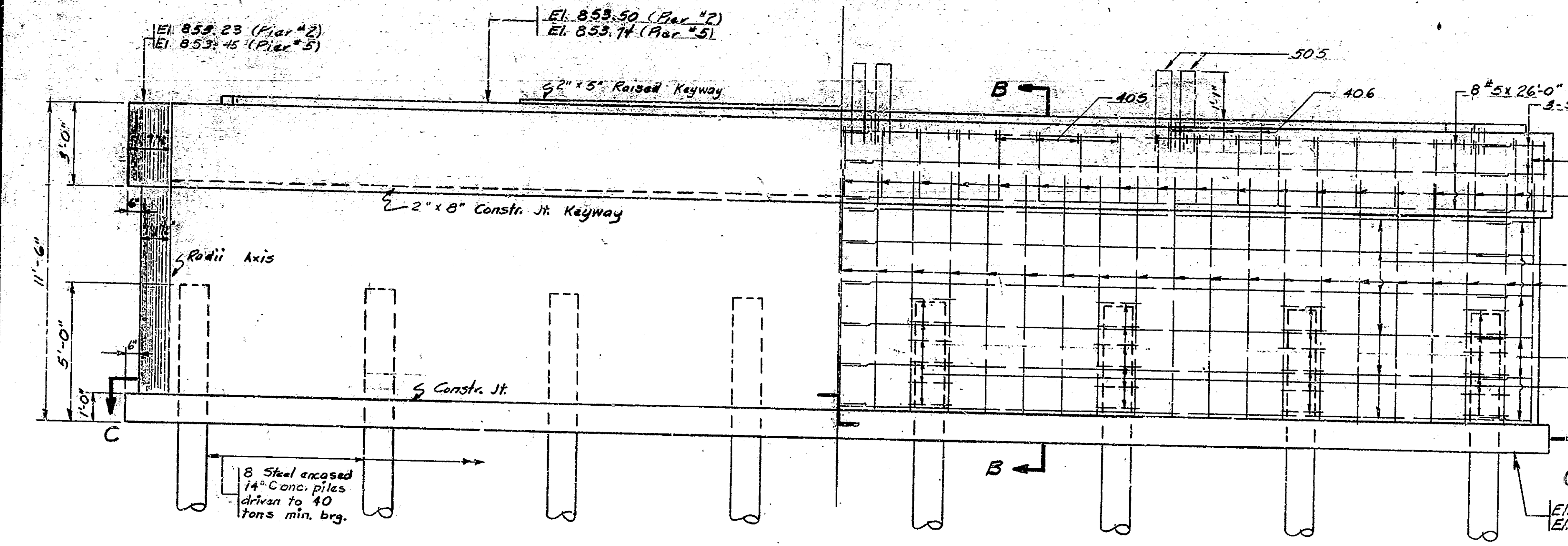
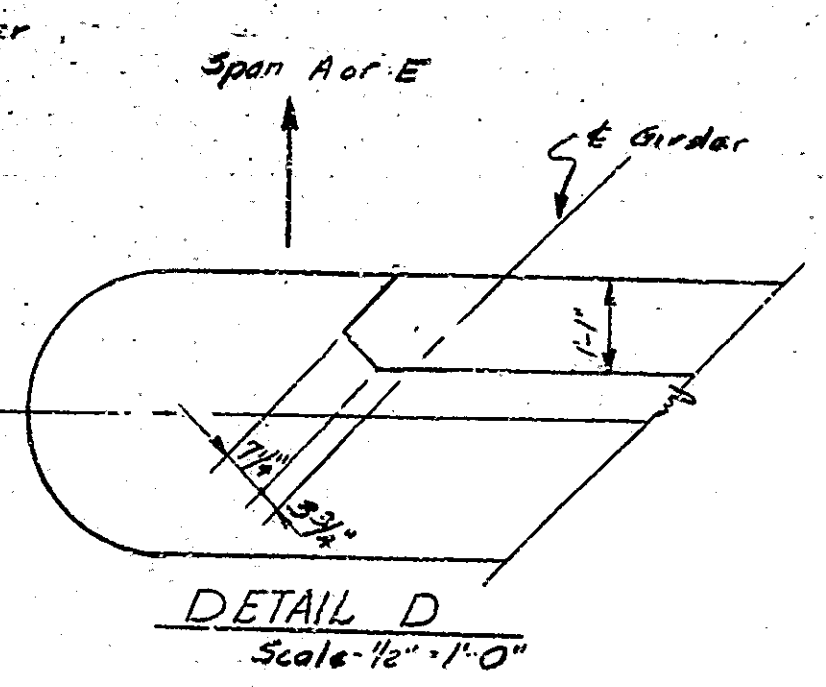
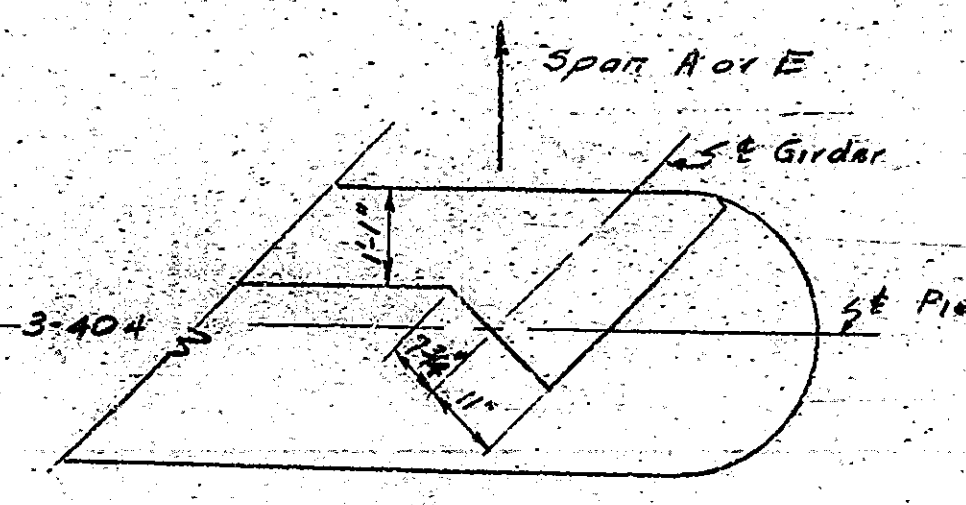
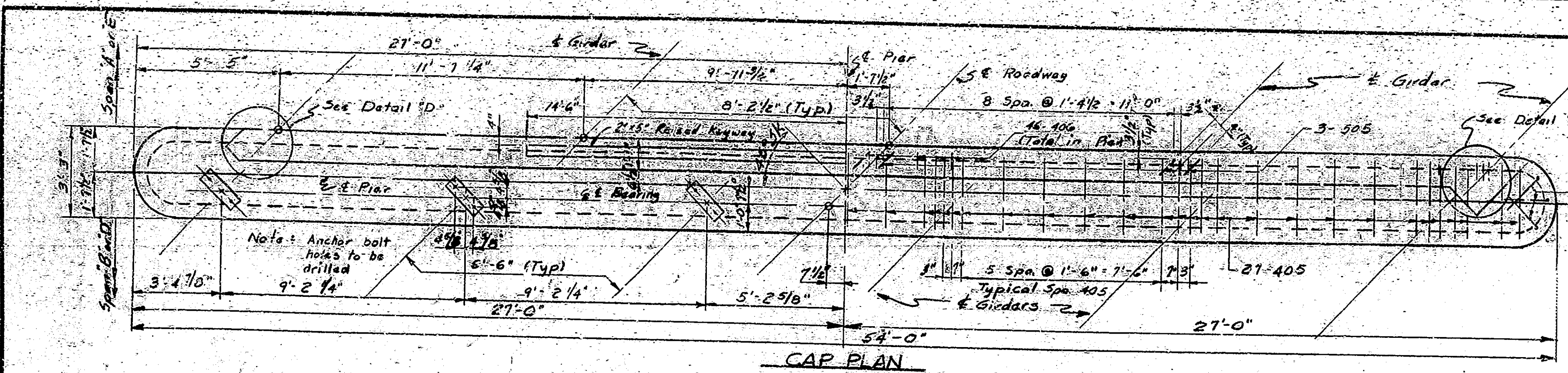
RECOMMENDED FOR APPROVAL: *C. R. Rimmer*
ENGINEER OF BRIDGE DESIGN

DRAWING: 6 OF 10
PROJECT: F-136
BRIDGE CONTRACT NO. 5495
BRIDGE FILE: 67-3-4833

DESIGNED: E. W. ...
DRAWN: ...
TRACED: ...

Note: See Br. ... for reinforcing bar notes.

BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-136(2)	1960	8	26

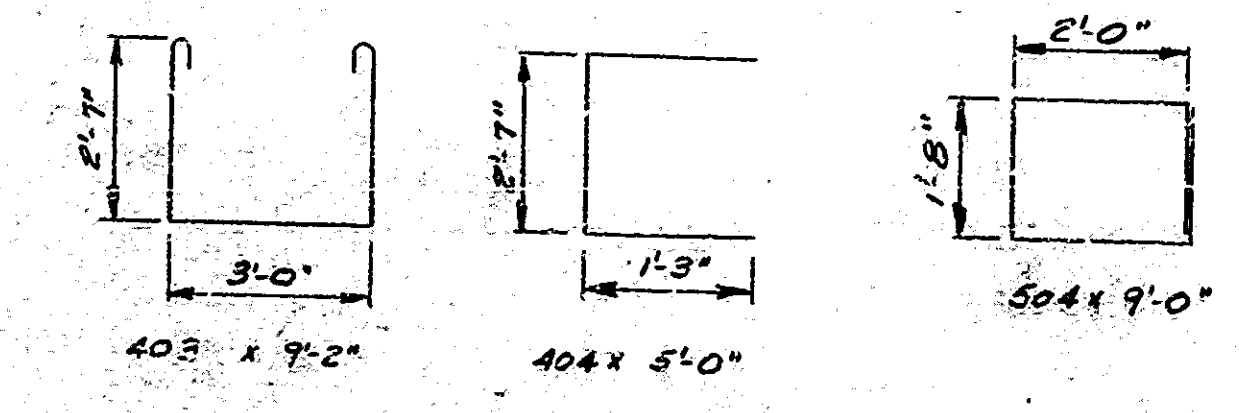
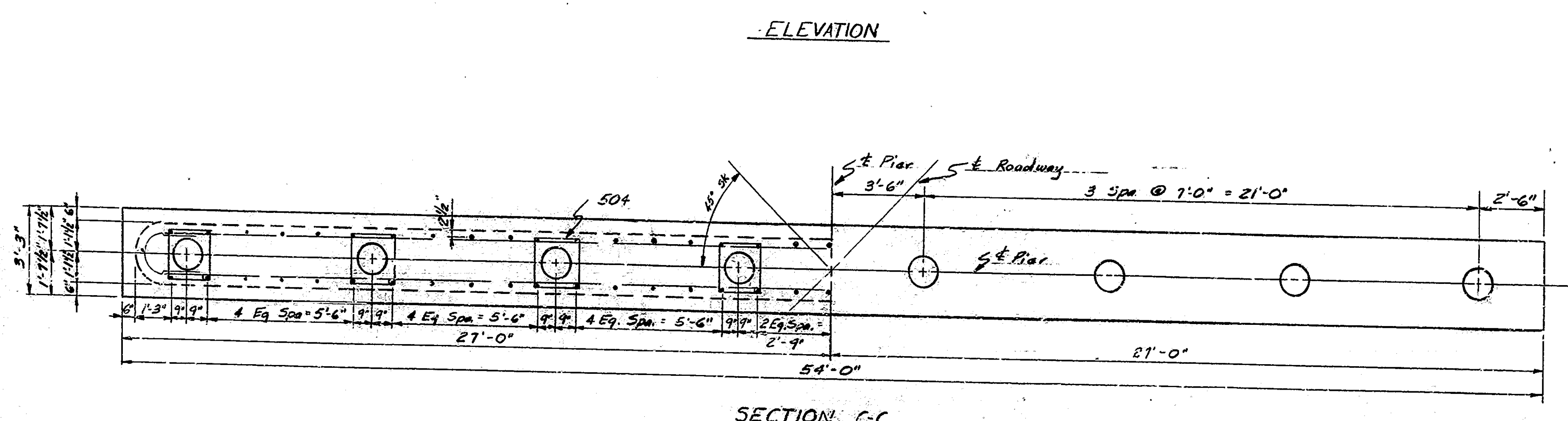


Size & Mark	R	O	Length
503	1'-9"	2'-9"	6'-1"
502	2'-10"	4'-5"	7'-9"

BILL OF MATERIALS
PIER NO. 2 (NO. 5 SAME)

SIZE	NO	LENGTH	WEIGHT
502	6	7'-0"	
503	12	6'-1"	
504	48	9'-0"	
505	6	5'-6"	
#5	40	26'-0"	
#5	76	8'-8"	
Total	#5		2388#
403	35	9'-2"	
404	6	5'-0"	
405	54	4'-0"	
406	46	3'-1"	
Total	#4		417#
Total Steel			2805#

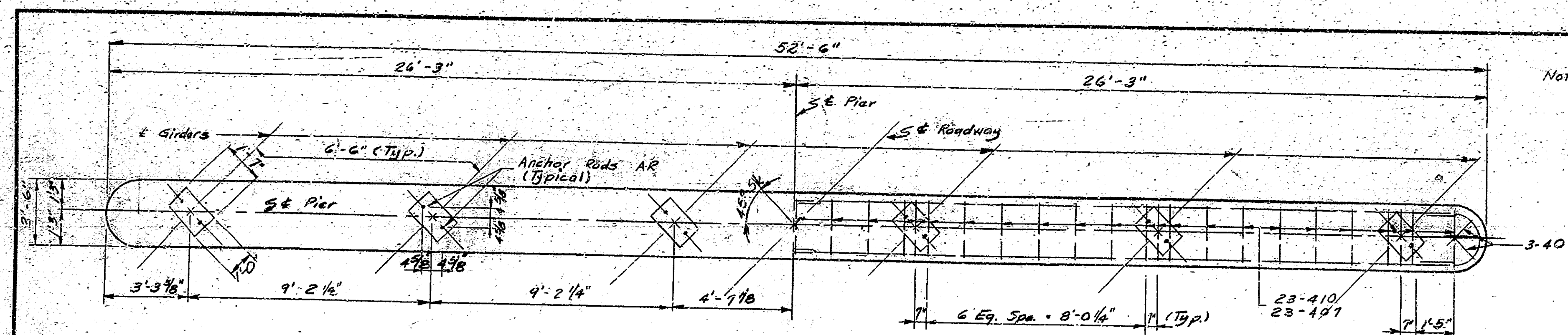
CONCRETE	
Class "E" - Footings	6.5 Cys
Class "E" - Above Footings	132.8 Cys
Class "F" - Cap	20.0 Cys
MISCELLANEOUS	
8 Steel Encased Conc. Piles - 14" x 130'-0" dia	600 Lins



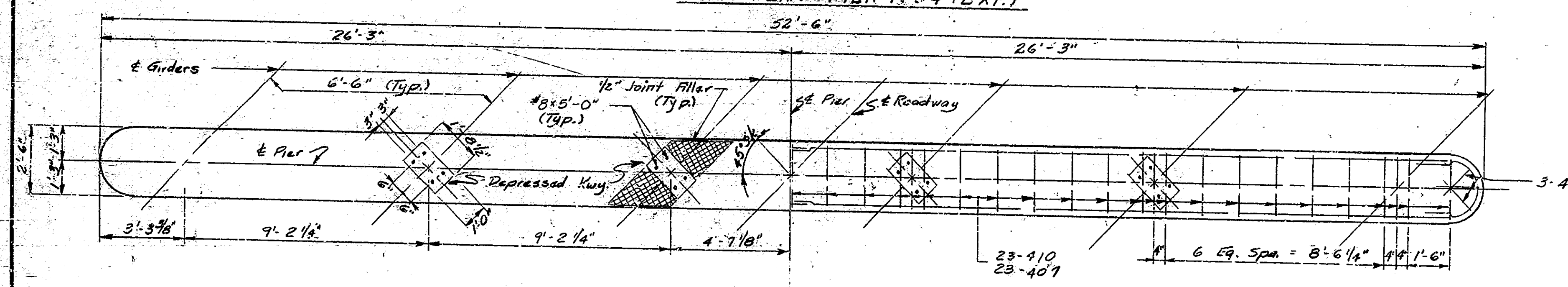
STATE HIGHWAY DEPARTMENT OF INDIANA
SCALE: 3/8" = 1'-0" Unless Noted
RECOMMENDED FOR APPROVAL: [Signature]
DRAWING: C₁ OF 10
PROJECT: F-136(2)
BRIDGE CONTRACT NO. 5495
BRIDGE FILE: 675-4893

DESIGNED: [Signature]
DRAWN: [Signature]
TRACED: [Signature]

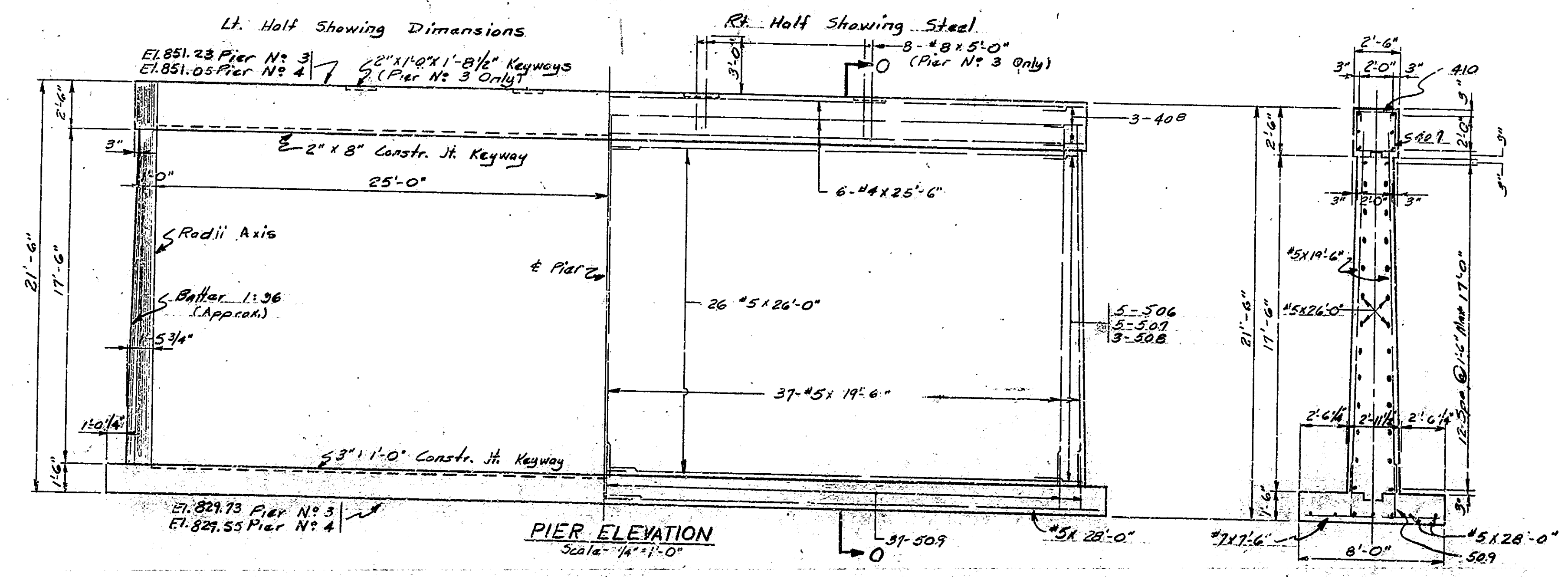
Note: See Br. Std. C₁ for Reinforcing Bar Notes.



CAP PLAN PIER NO. 4 (EXP.)

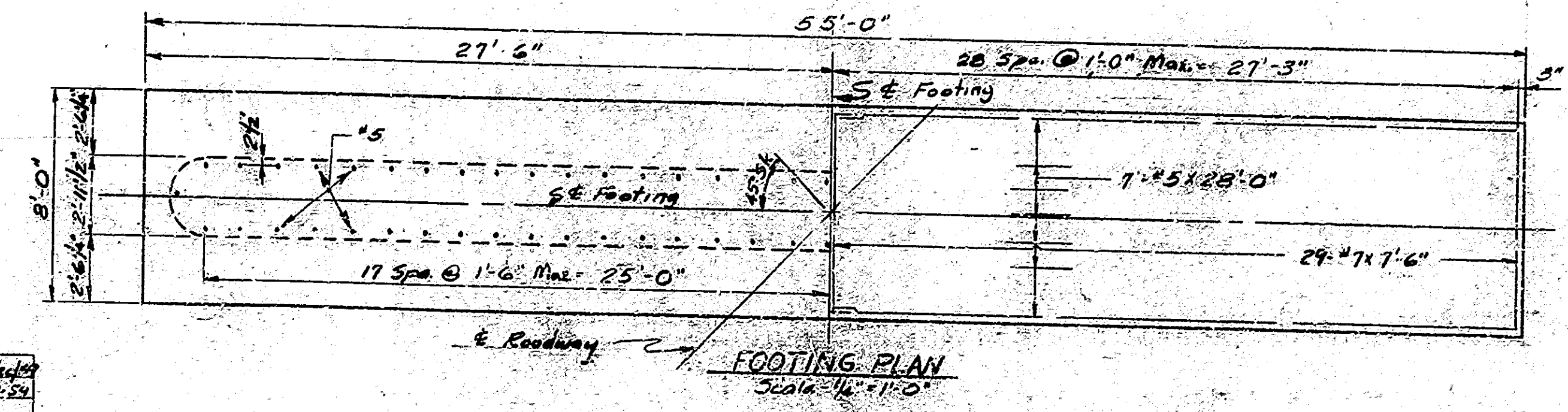


CAP PLAN PIER NO. 3 (FIXED)



PIER ELEVATION Scale = 1/4" = 1'-0"

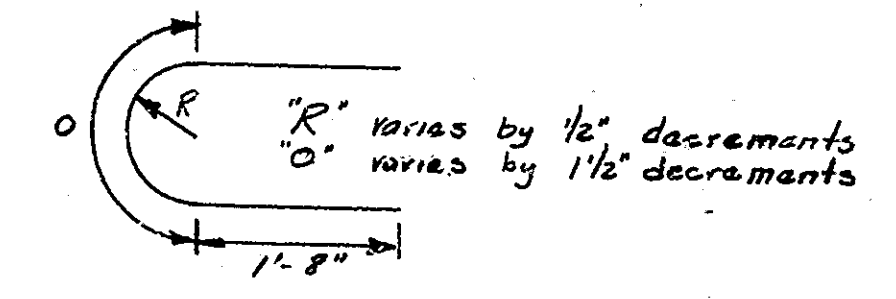
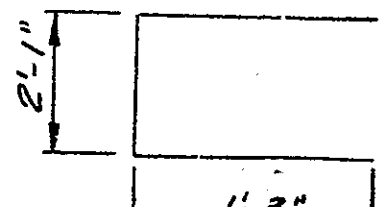
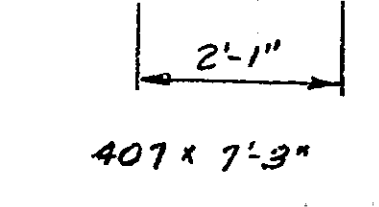
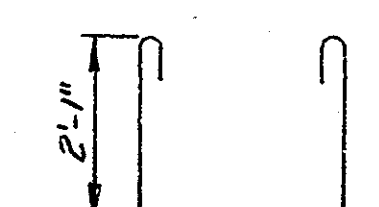
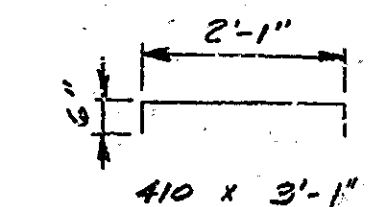
SECTION O-O Scale = 1/4" = 1'-0"



FOOTING PLAN Scale = 1/4" = 1'-0"

Note: Anchor rod holes to be drilled.

BRIDGES OVER 20' SPAN					
FOR ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.	NO.	NO.	YEAR	NO.	SHEETS
4	IND.	7-1362	1960	9	20



SIZE MARK	R	O	Length
506	1'-2 1/2" to 1'-0 1/2"	3'-9 1/2" to 3'-3 1/2"	7'-2"
507	1'-0" to 0'-10"	3'-1 3/4" to 2'-7 1/2"	6'-6"
508	0'-9 1/2" to 0'-8"	2'-6" to 2'-2 1/2"	5'-10"
408	1'-0 1/4"	3'-2 1/2"	6'-6"

BILL OF MATERIALS
PIER NO. 3 (PIER NO. 4 SAME)

SIZE MARK	NO. BARS	LENGTH	WEIGHT
#8	8	5'-0"	107#
#7	57	7'-6"	876#
506	10	7'-2"	
507	10	6'-6"	
508	6	5'-10"	
509	72	3'-6"	
#5	14	28'-0"	
52	22	22'-0"	
72	17	17'-6"	
Total	# 5		3725#
407	45	7'-3"	
408	6	6'-6"	
409	6	4'-7"	
410	45	3'-1"	
#4	12	25'-6"	
Total	# 4		560#
TOTAL STEEL			5360#

CONCRETE	
Class "F" - Cap	120 cu yds
Class "E" Above Ftg.	88.5 cu yds
Class "E" - Footing	24.5 cu yds

* These bars are used in Pier #3 only

DETAILS - PIER NO. 3 & NO. 4
STATE HIGHWAY DEPARTMENT OF INDIANA

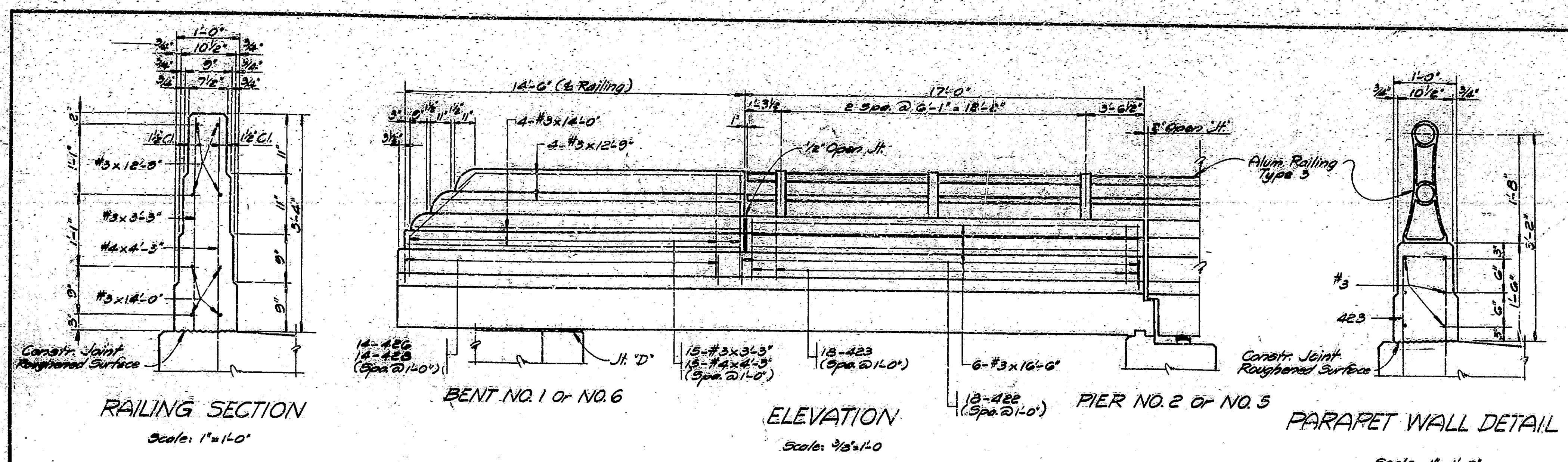
SCALE: 3/8" = 1'-0" Unless Noted JANUARY 14, 1960

RECOMMENDED FOR APPROVAL: [Signature]

DRAWING NO. OF 10
PROJECT: E-1362
BRIDGE CONTRACT NO. 5495
BRIDGE FILE: 67-5-4833

DESIGNED: E.W.M. 1/15/60
DRAWN: G.E.S. 1/15/60
CHECKED: E.W.M. 1/15/60
TRACED: C.W.D.

BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND.	F-136 (2)	1960	11	26



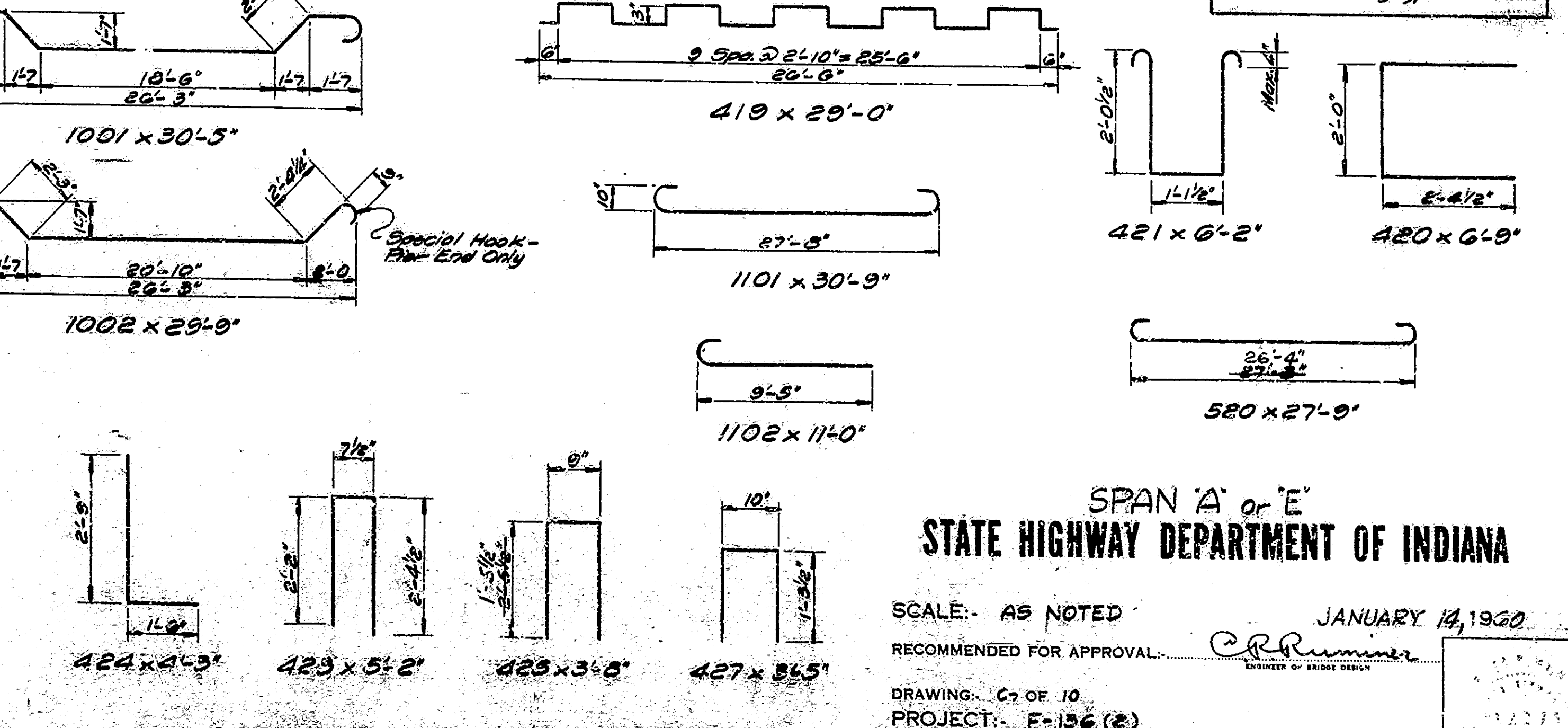
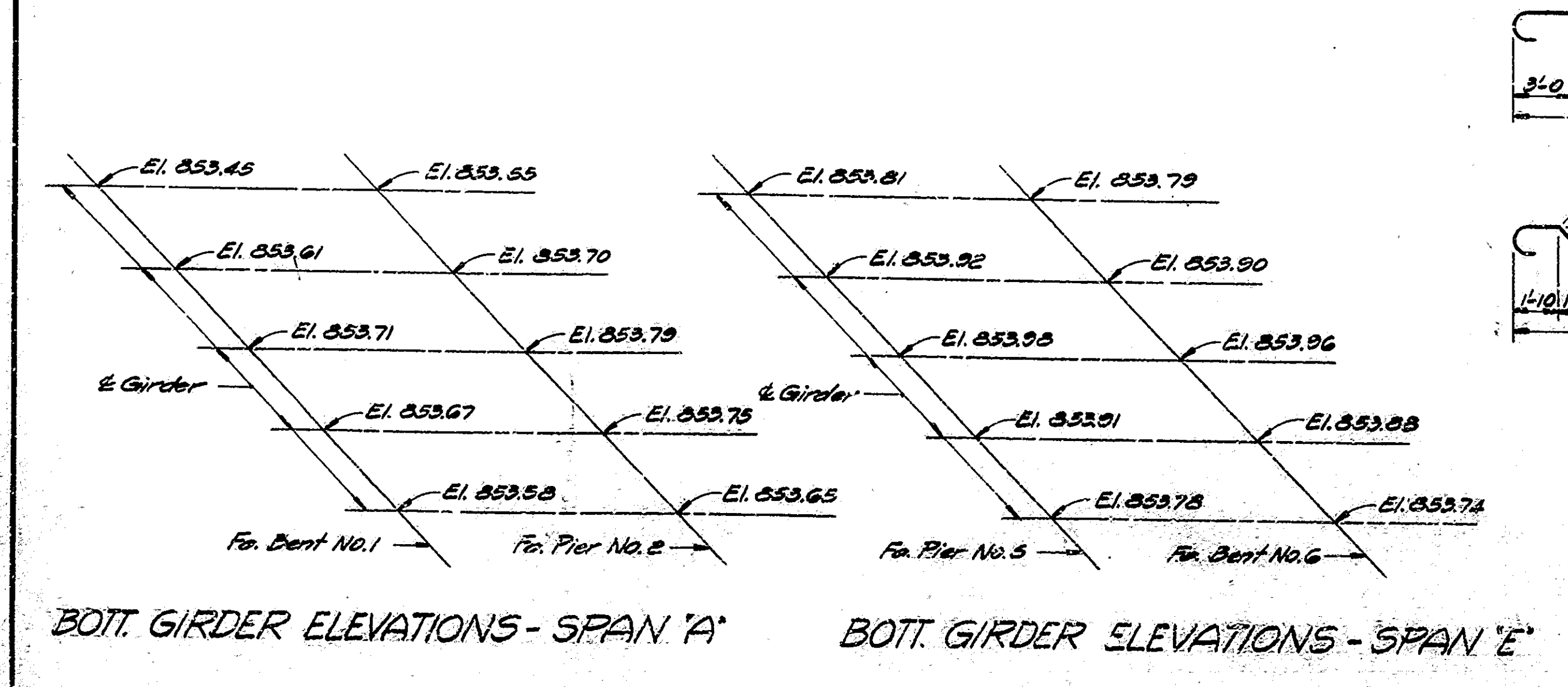
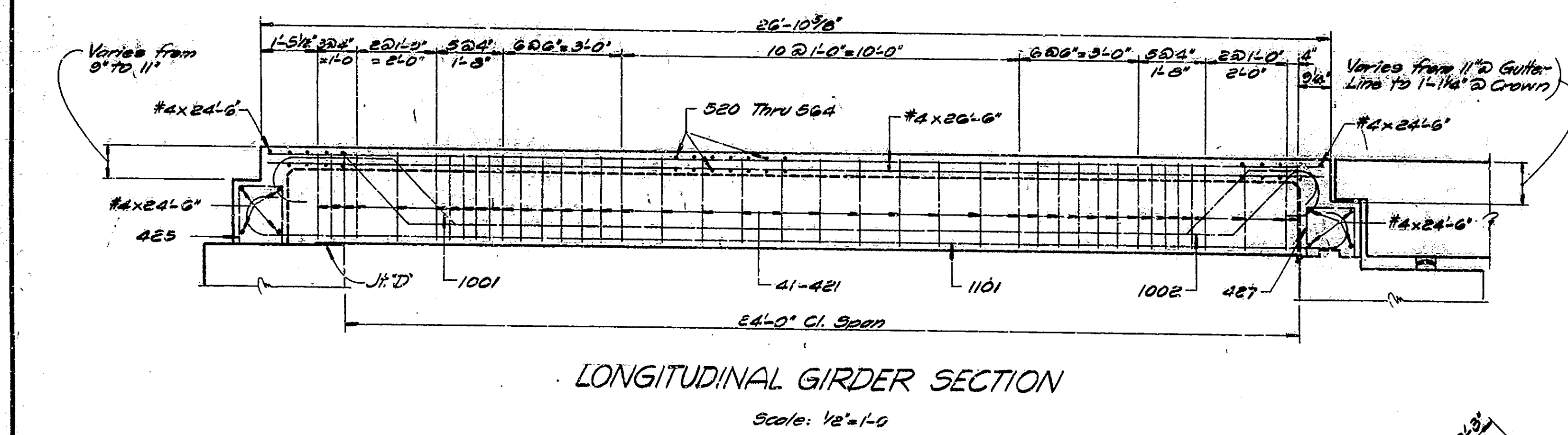
BILL OF MATERIALS

SPAN 'A' (SPAN 'E' SAME)

SIZE & MARK	NO. OF BARS	LENGTH	REINFORCING STEEL	WEIGHT (LBS.)
521	20	30'-9"	1001	3069
2	20	23'-9"		
3	20	23'-10"		
4	20	25'-4"		
5	20	24'-11"		
6	20	24'-3"		
7	20	24'-0"		
8	20	23'-0"		
9	20	23'-1"		
530	10	22'-7"		
1	20	22'-2"	1002	2389
2	20	21'-3"		
3	20	21'-3"		
4	20	20'-9"		
5	20	20'-4"		
6	20	19'-10"		
7	20	19'-5"		
8	20	18'-11"		
9	20	18'-6"		
540	10	18'-0"		
1	20	17'-7"	419	2210
2	20	17'-1"		
3	20	16'-8"		
4	20	16'-2"		
5	20	15'-9"		
6	20	15'-3"		
7	20	14'-10"		
8	20	14'-4"		
9	20	13'-11"		
550	10	13'-5"		
1	20	13'-0"	420	2150
2	20	12'-6"		
3	20	12'-1"		
4	20	11'-7"		
5	20	11'-2"		
6	20	10'-8"		
7	20	10'-3"		
8	20	9'-9"		
9	20	9'-4"		
560	10	8'-10"		
1	20	8'-5"	421	2100
2	20	7'-11"		
3	20	7'-6"		
4	20	7'-1"		
5	20	6'-7"		
6	20	6'-2"		
7	20	5'-8"		
8	20	5'-3"		
9	20	4'-9"		
564	10	4'-5"		
1	20	4'-0"	422	2050
2	20	3'-6"		
3	20	3'-1"		
4	20	2'-7"		
5	20	2'-2"		
6	20	1'-8"		
7	20	1'-3"		
8	20	9'-0"		
9	20	8'-6"		
564	10	8'-1"		
1	20	7'-7"	423	2000
2	20	7'-2"		
3	20	6'-8"		
4	20	6'-3"		
5	20	5'-9"		
6	20	5'-4"		
7	20	4'-10"		
8	20	4'-5"		
9	20	4'-0"		
564	10	3'-6"		

CONCRETE
Class 'F' Spans (Except Railing)
Outer Face (C&G) = 4.5 G.Y.
TOTAL = 493.5 G.Y.

MISCELLANEOUS
Aluminum Railing, Type 3 = 33 L.F.



SPAN 'A' or 'E'
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: AS NOTED

JANUARY 14, 1960

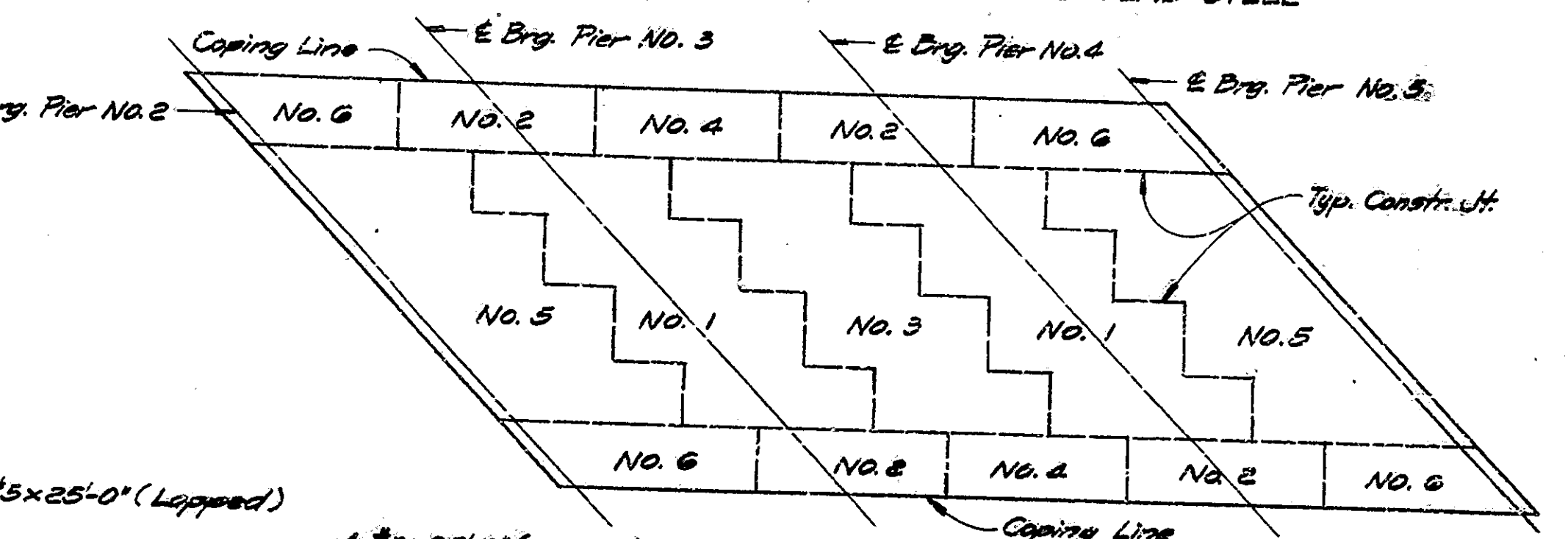
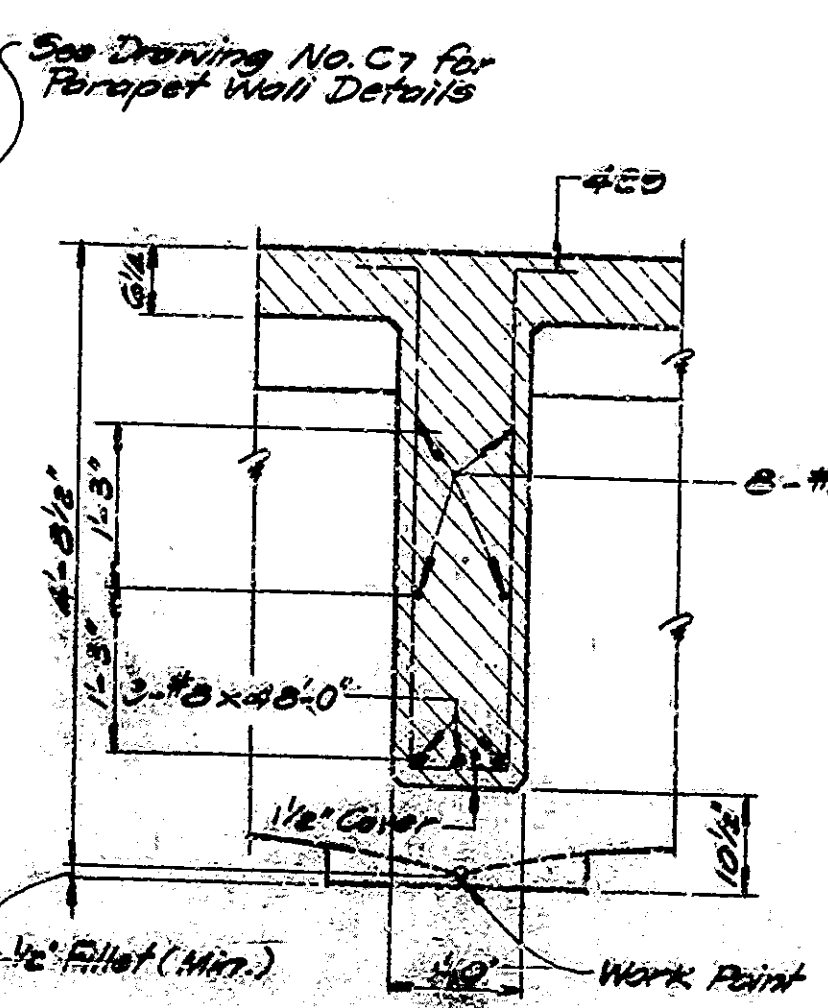
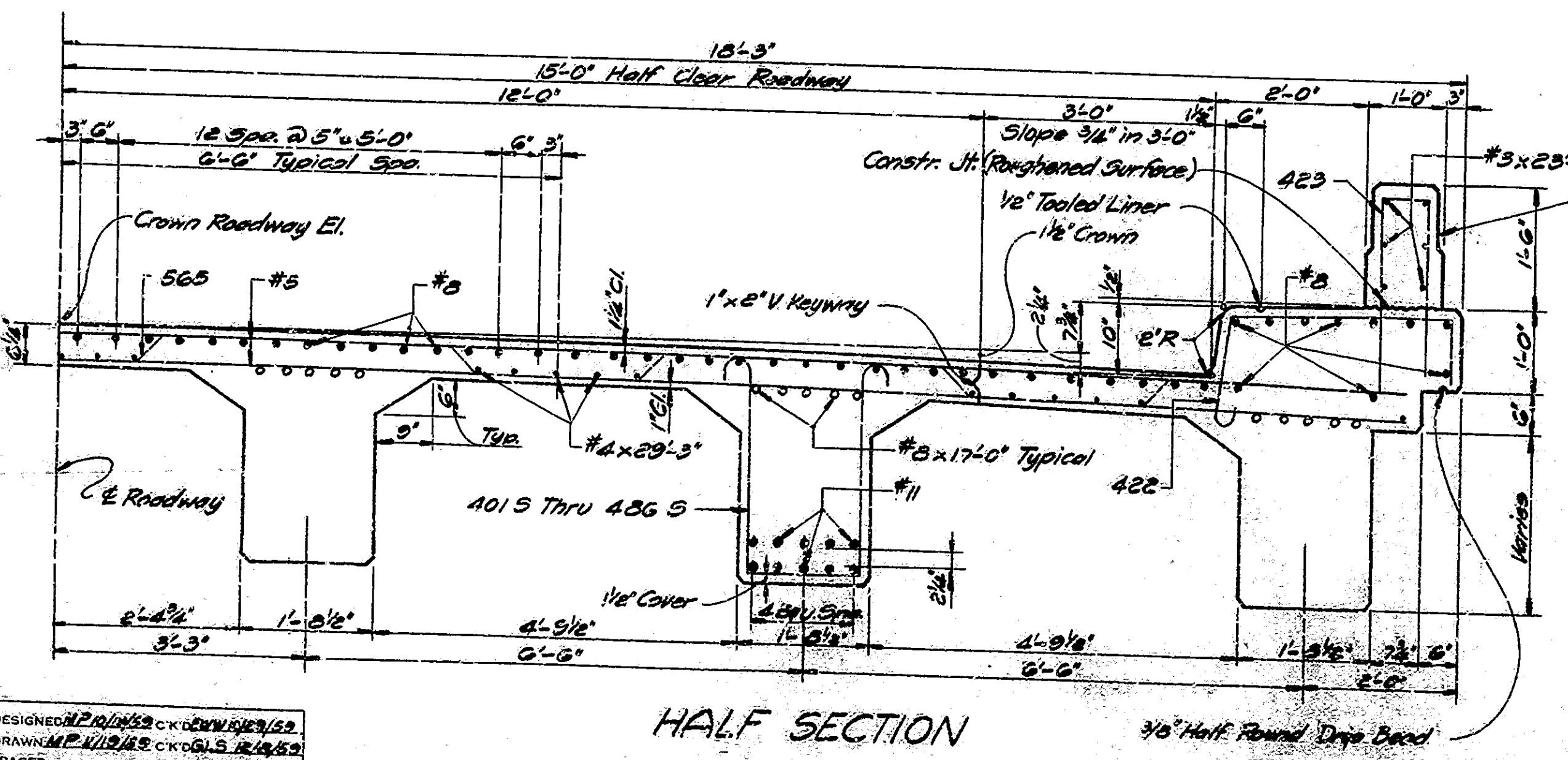
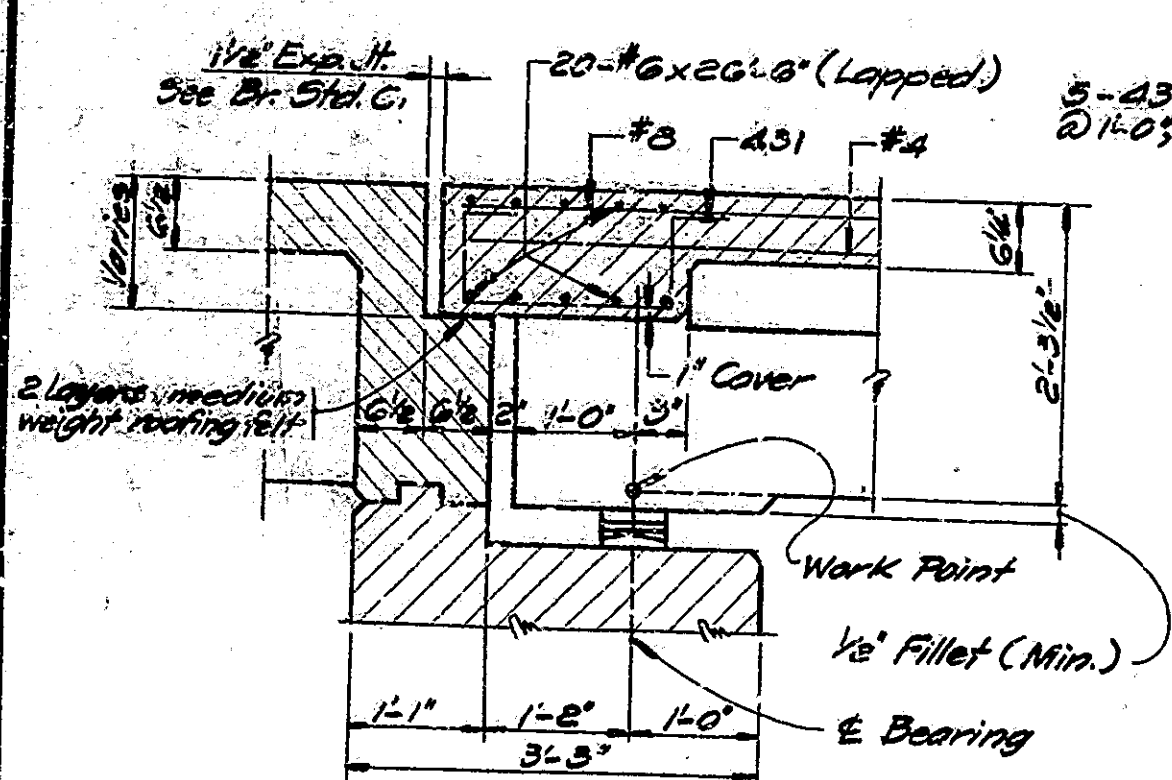
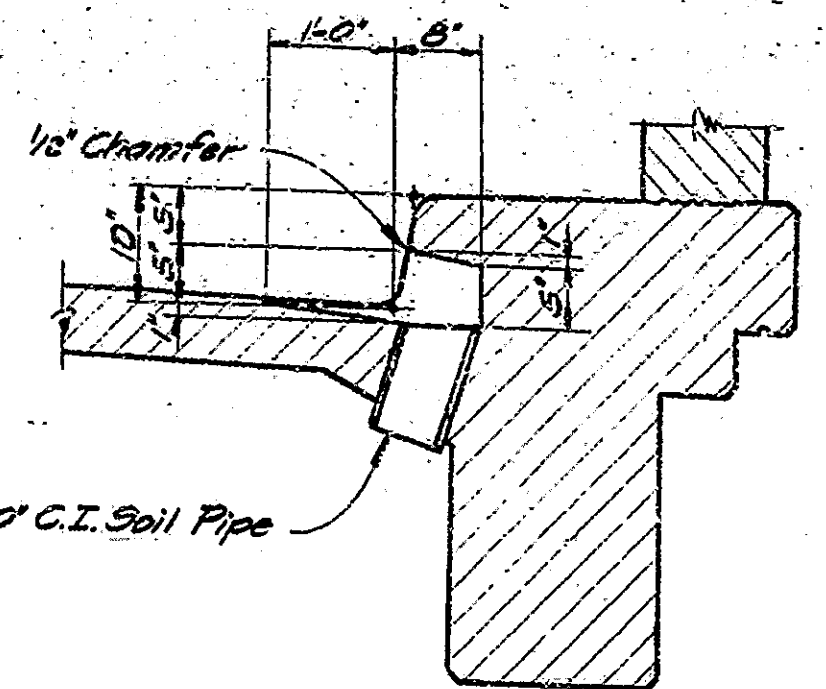
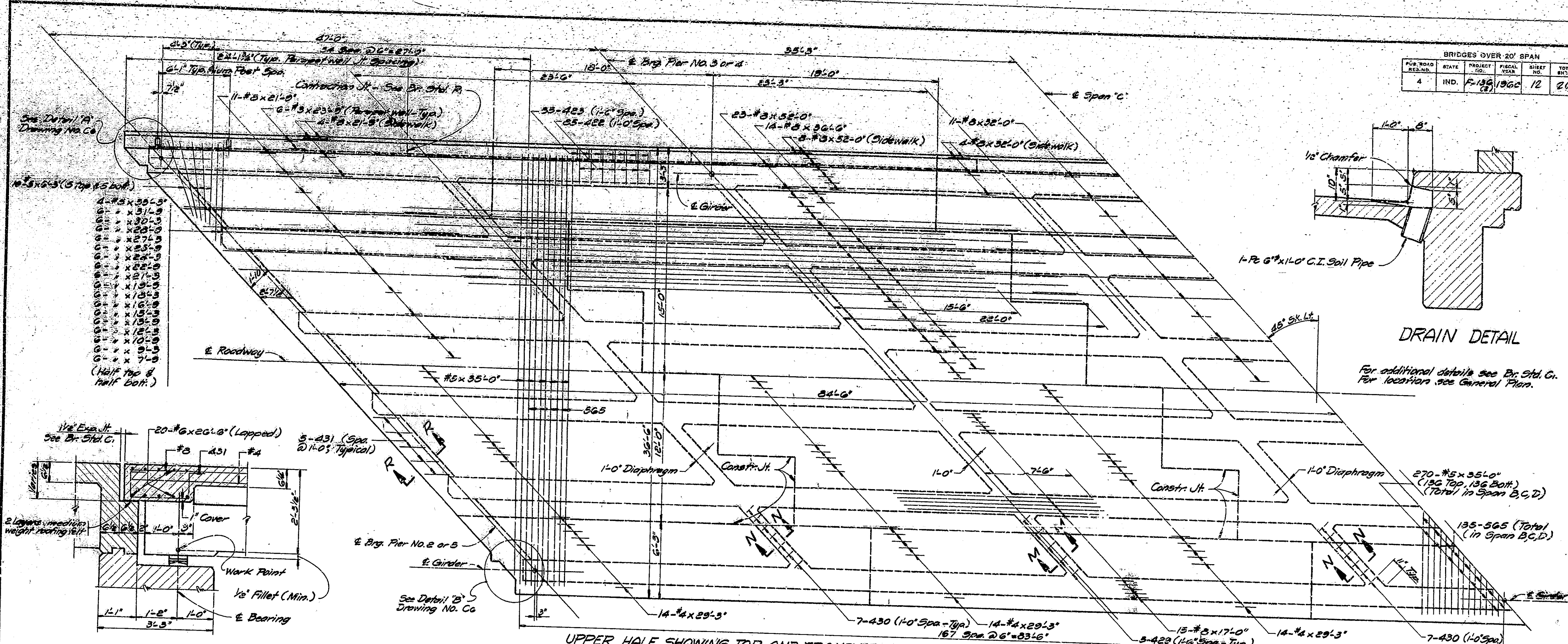
RECOMMENDED FOR APPROVAL: *C.R. Rimmer*
ENGINEER OF BRIDGE DESIGN

DRAWING: C-2 OF 10
PROJECT: F-136 (2)
BRIDGE CONTRACT NO. 5495
BRIDGE FILE: 67-5-4833

DESIGNED: C.R. Rimmer
DRAWN: C.R. Rimmer
TRACED: C.R. Rimmer

NOTE: See Bridge Std. C1 for Reinforcing Bar Notes.
Rev. 4-12-66, Item 415 of 520

BRIDGES OVER 20' SPAN					
FOR ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	F-136 (2)	1960	12	26



STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: 3/4"=1'-0" UNLESS NOTED JANUARY 14, 1960

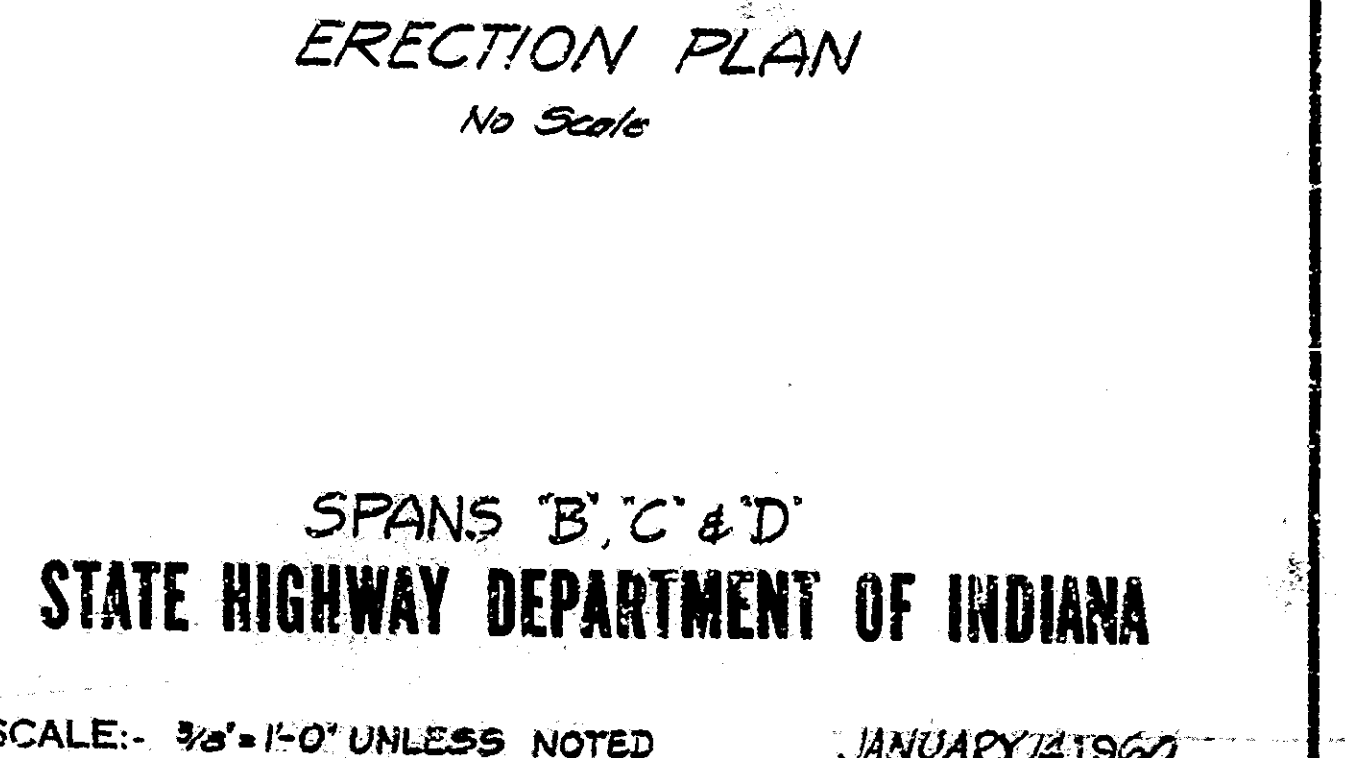
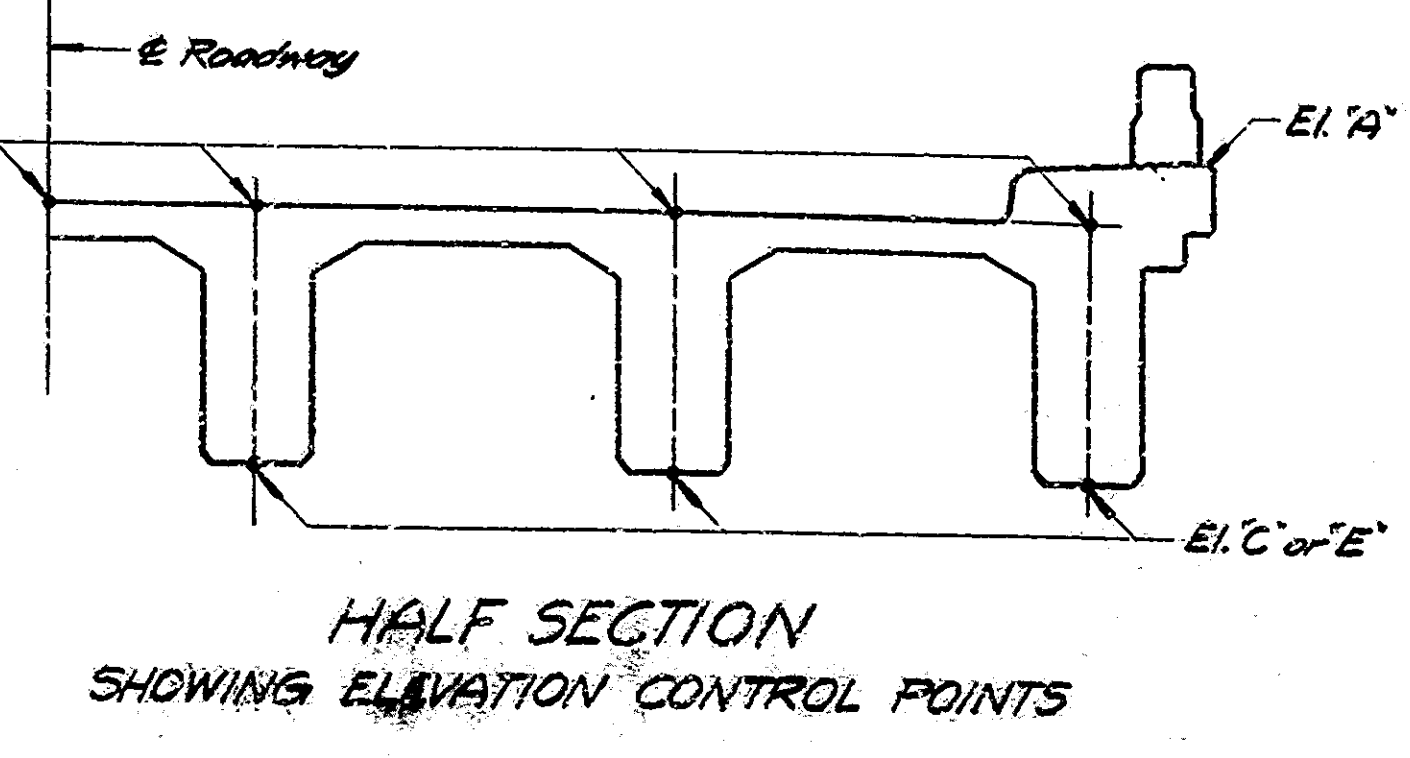
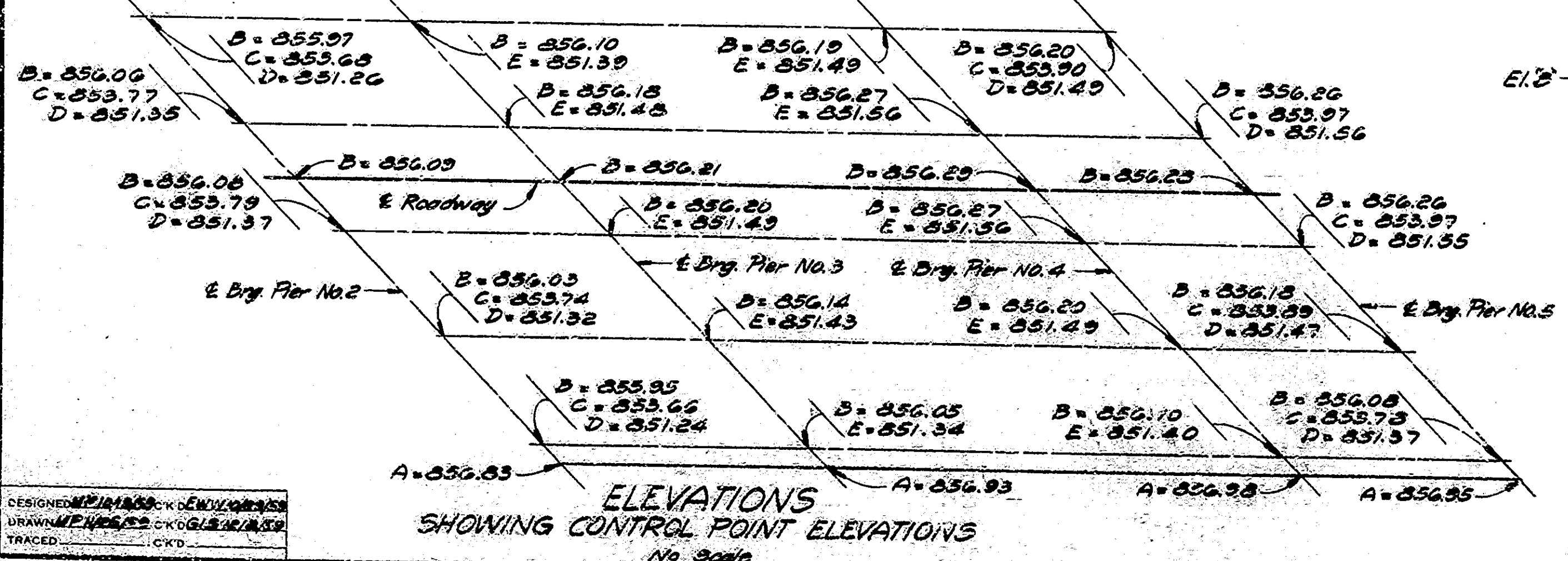
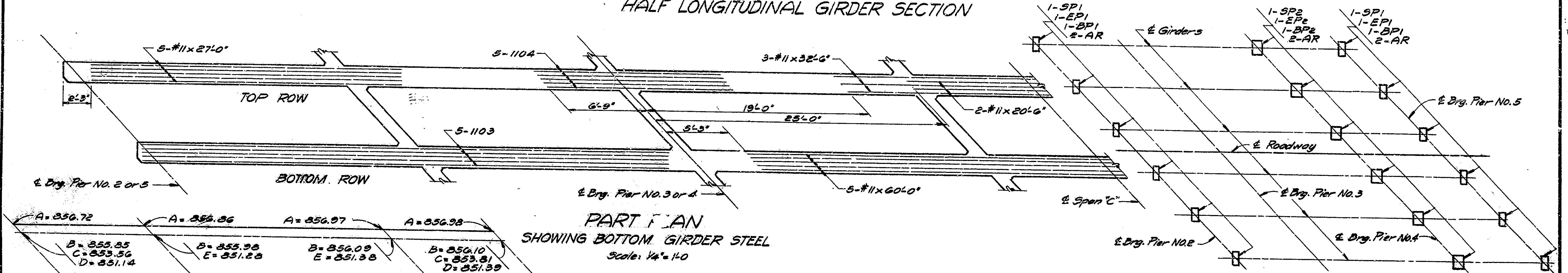
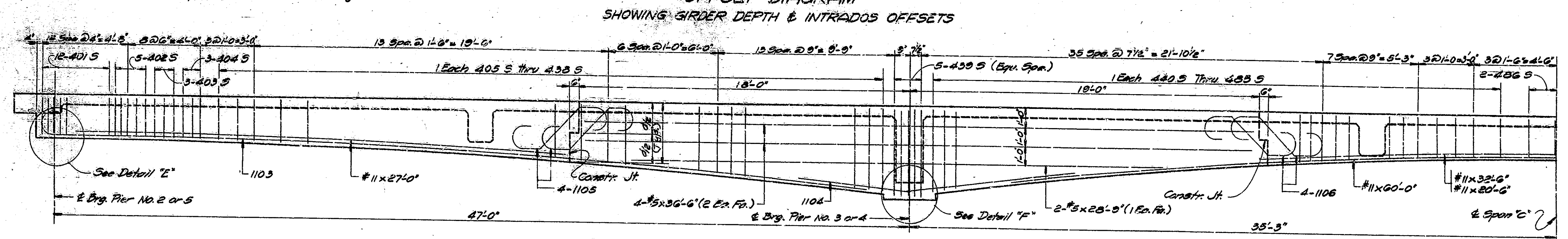
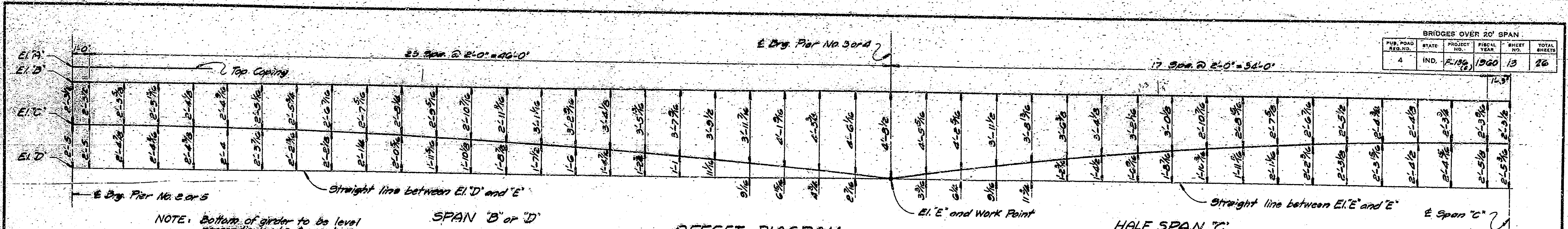
RECOMMENDED FOR APPROVAL: *[Signature]*

DRAWING: C-6 OF 10
PROJECT: F-136 (2)
BRIDGE CONTRACT NO. 5495
BRIDGE FILE: 67-5-4835

DESIGNED BY: [Name]
DRAWN BY: [Name]
TRACED BY: [Name]

NOTE: See Bridge 9th. G. for Reinforcing Bar Notes

BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.	NO.	NO.	YEAR	NO.	NO.
4	IND.	F-156	1960	13	26



SPANS 'B', 'C' & 'D'
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: 3/8" = 1'-0" UNLESS NOTED
 JANUARY 13, 1960
 RECOMMENDED FOR APPROVAL: *[Signature]*
 DRAWING: C8 OF 10
 PROJECT: F-156 (2)
 BRIDGE CONTRACT NO. 5495
 BRIDGE FILE: 67-5-4833

DESIGNED BY: *[Signature]*
 DRAWN BY: *[Signature]*
 TRACED BY: *[Signature]*

NOTE: See Bridge Std. C for Reinforcing Bar Notes.

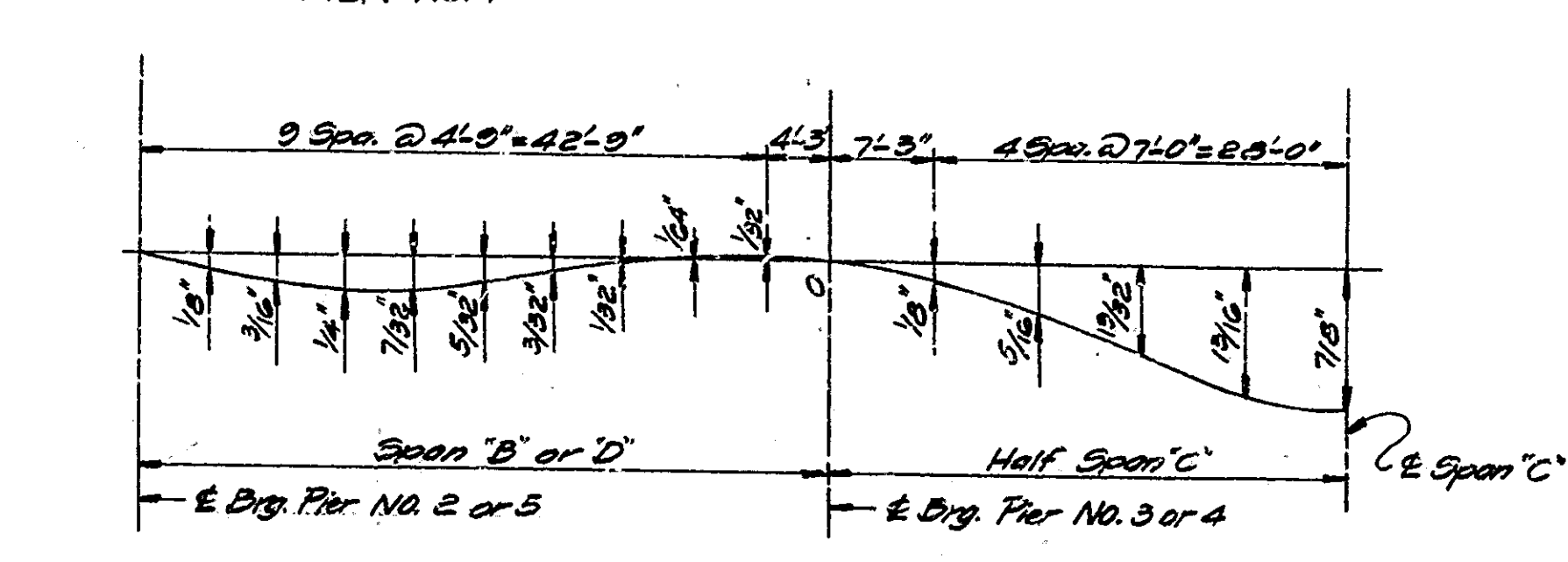
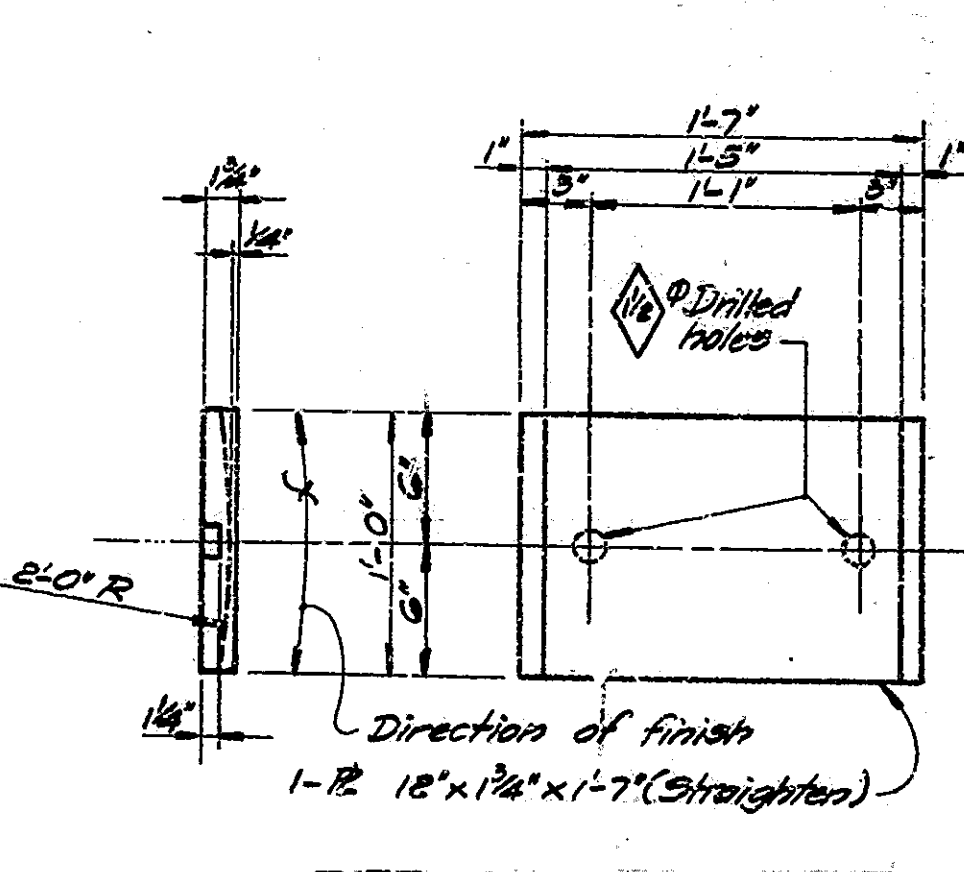
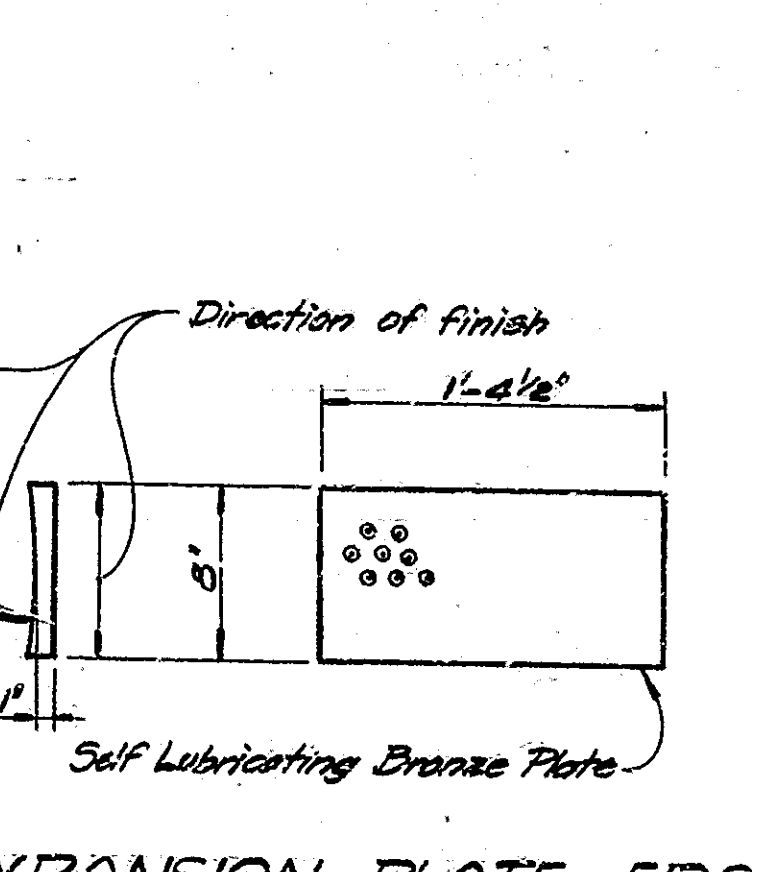
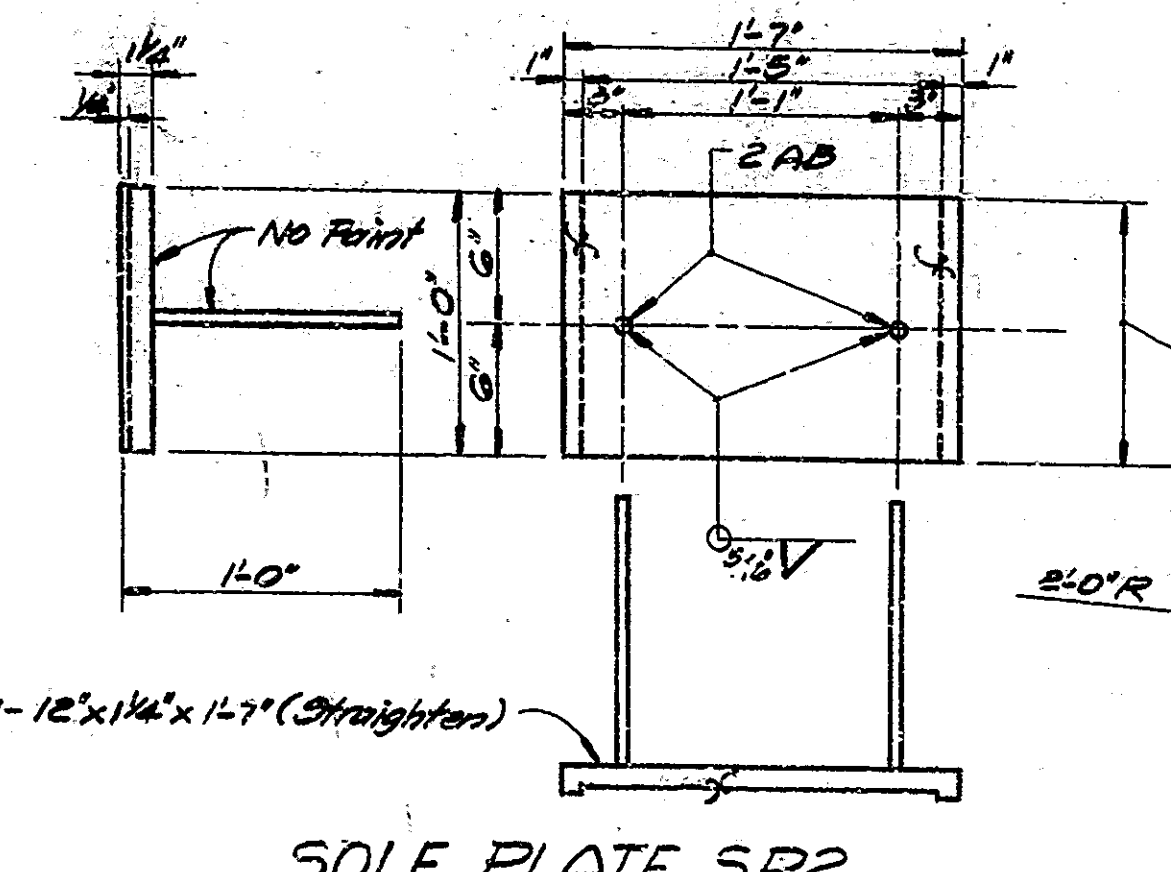
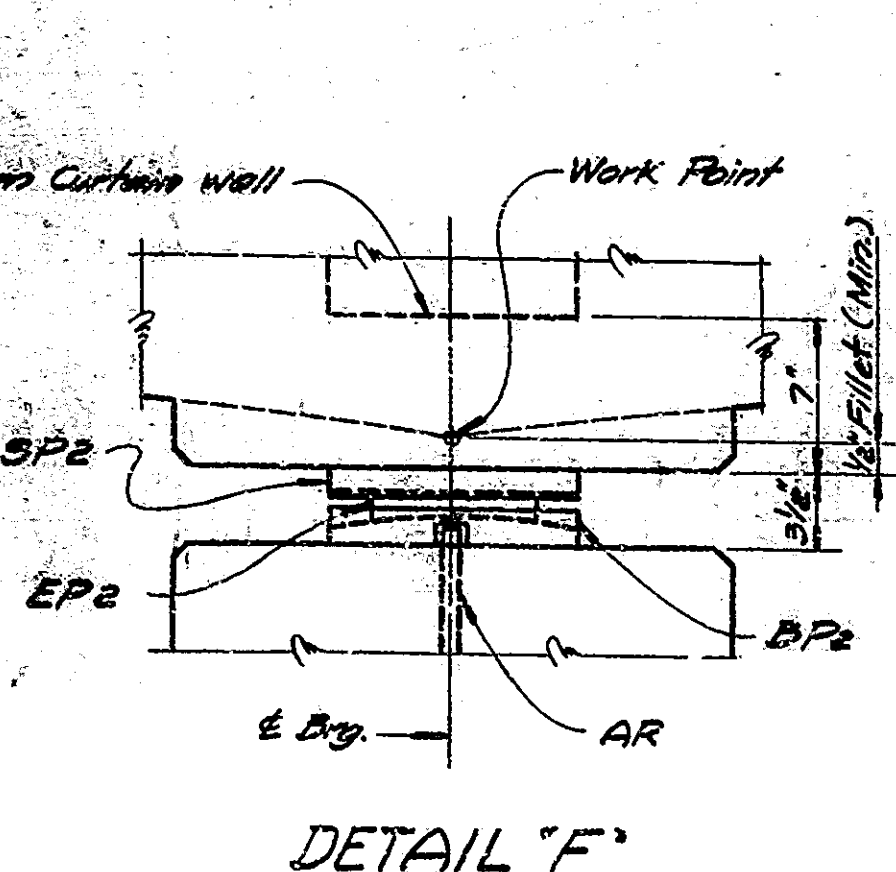
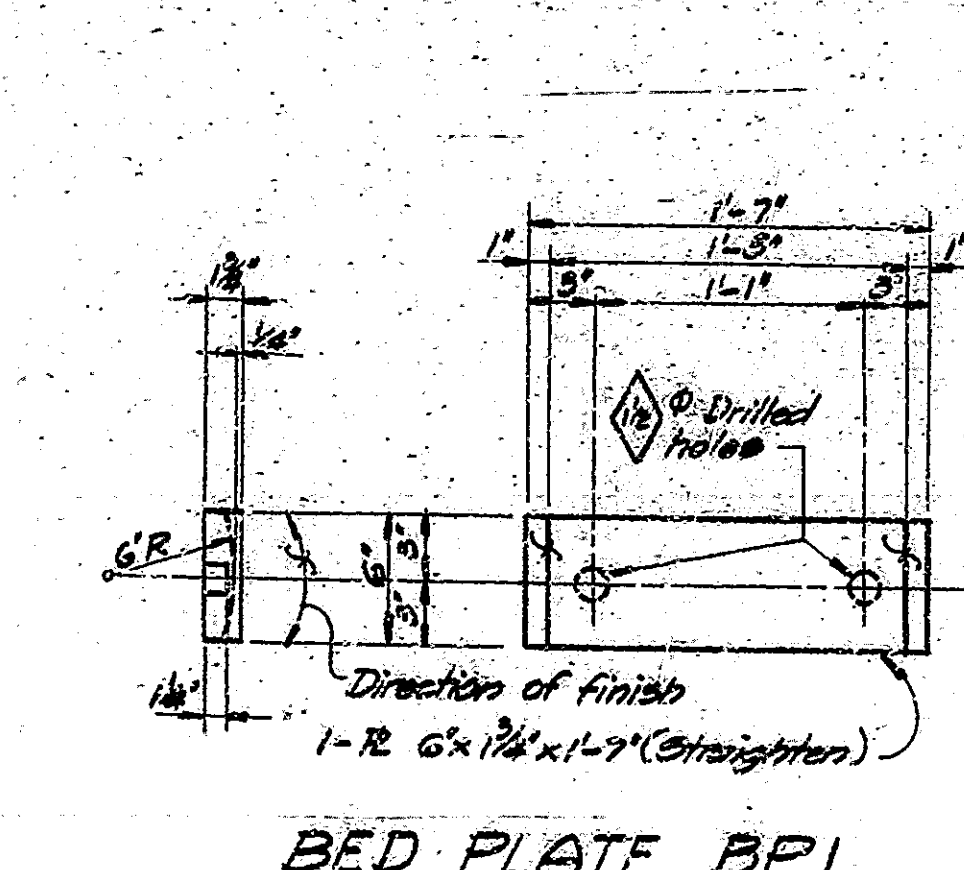
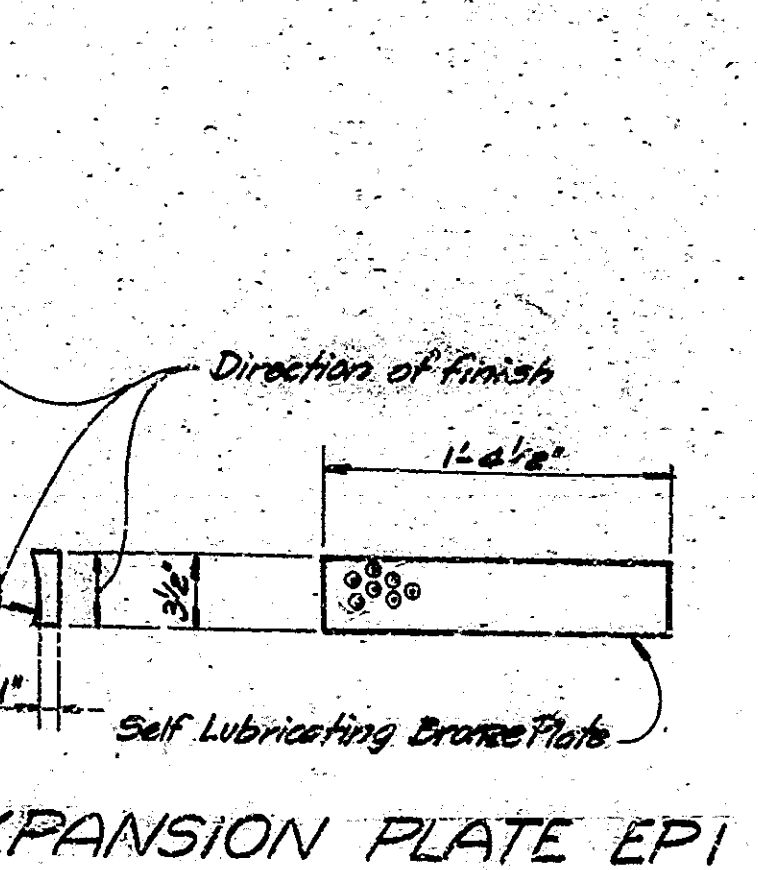
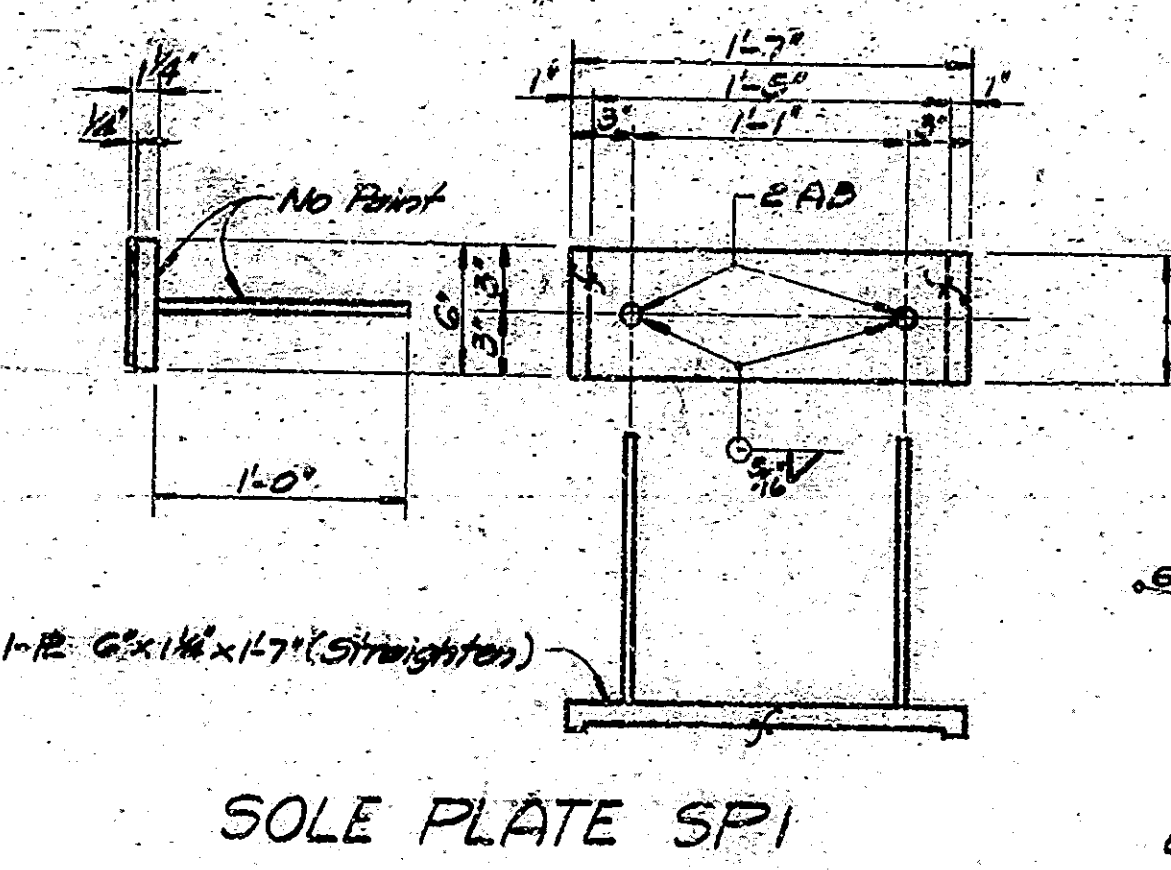
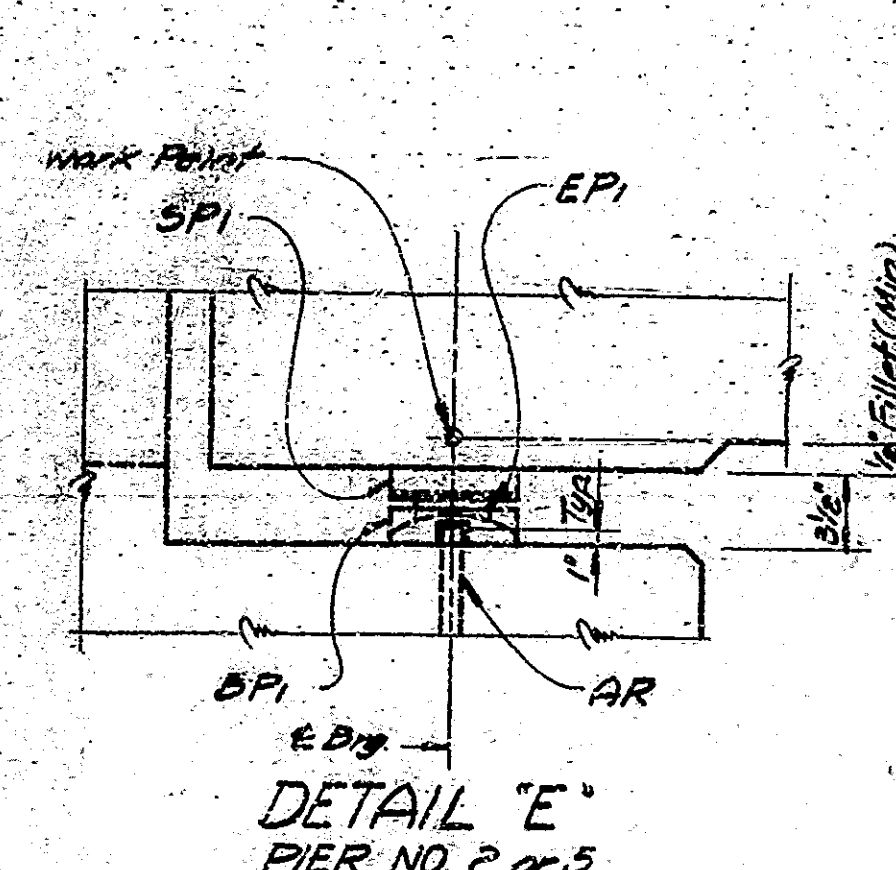
BILL OF MATERIALS

SPANS B, C, & D

REINFORCING STEEL

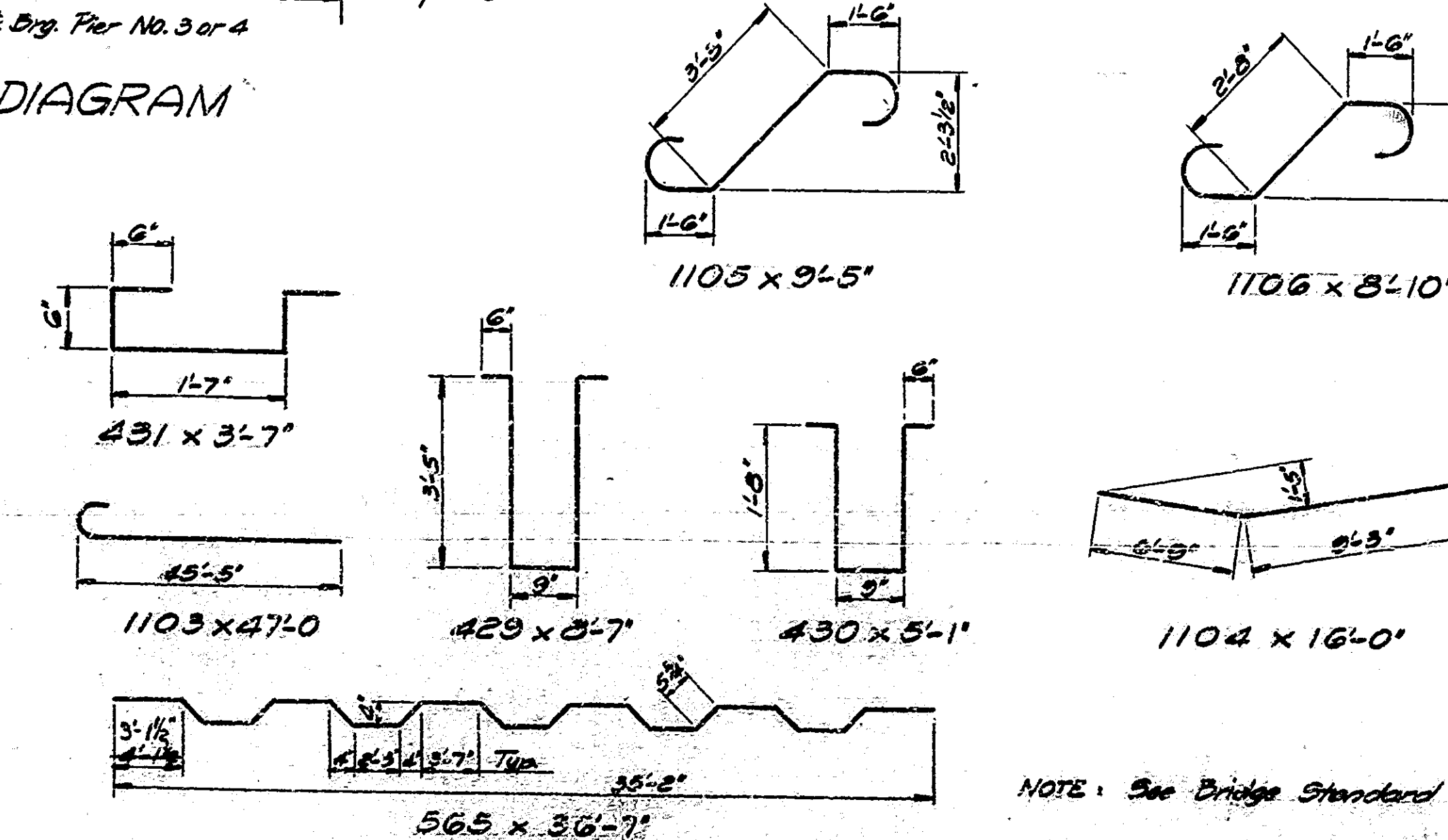
SIZE & MARK	NO. OF BARS	LENGTH	WEIGHT (Lbs.)
110.3	60	47'-0"	
110.4	60	16'-0"	
110.5	28	8'-5"	
110.6	48	8'-10"	
#11	30	60'-0"	
"	18	32'-6"	
"	60	27'-0"	
"	12	20'-6"	
TOTAL NO. 11			47,323
#8	12	52'-0"	
"	18	48'-0"	
"	56	56'-0"	
"	30	32'-0"	
"	60	21'-0"	
"	60	17'-0"	
TOTAL NO. 8			33,751
#6	40	20'-0"	1,532
50.5	135	36'-7"	
#5	40	34'-6"	
"	270	35'-0"	
"	5	33'-0"	
"	12	31'-0"	
"	12	30'-0"	
"	36	28'-0"	
"	12	27'-0"	
"	12	25'-0"	
"	12	24'-0"	
"	12	23'-0"	
"	12	22'-0"	
"	12	21'-0"	
"	12	20'-0"	
"	12	19'-0"	
"	12	18'-0"	
"	12	17'-0"	
"	12	16'-0"	
"	12	15'-0"	
"	12	14'-0"	
"	12	13'-0"	
"	12	12'-0"	
"	12	11'-0"	
"	12	10'-0"	
"	12	9'-0"	
"	12	8'-0"	
"	12	7'-0"	
"	12	6'-0"	
"	12	5'-0"	
"	12	4'-0"	
"	12	3'-0"	
"	12	2'-0"	
"	12	1'-0"	
"	12	0'-0"	
TOTAL NO. 5			22,932
422	340	54'-0"	
423	340	5'-0"	
429	30	2'-0"	
430	180	25'-0"	
431	180	25'-0"	
432	180	25'-0"	
433	180	25'-0"	
434	180	25'-0"	
435	180	25'-0"	
436	180	25'-0"	
437	180	25'-0"	
438	180	25'-0"	
439	180	25'-0"	
440	180	25'-0"	
441	180	25'-0"	
442	180	25'-0"	
443	180	25'-0"	
444	180	25'-0"	
445	180	25'-0"	
446	180	25'-0"	
447	180	25'-0"	
448	180	25'-0"	
449	180	25'-0"	
450	180	25'-0"	
451	180	25'-0"	
452	180	25'-0"	
453	180	25'-0"	
454	180	25'-0"	
455	180	25'-0"	
456	180	25'-0"	
457	180	25'-0"	
458	180	25'-0"	
459	180	25'-0"	
460	180	25'-0"	
461	180	25'-0"	
462	180	25'-0"	
463	180	25'-0"	
464	180	25'-0"	
465	180	25'-0"	
466	180	25'-0"	
467	180	25'-0"	
468	180	25'-0"	
469	180	25'-0"	
470	180	25'-0"	
471	180	25'-0"	
472	180	25'-0"	
473	180	25'-0"	
474	180	25'-0"	
475	180	25'-0"	
476	180	25'-0"	
477	180	25'-0"	
478	180	25'-0"	
479	180	25'-0"	
480	180	25'-0"	
481	180	25'-0"	
482	180	25'-0"	
483	180	25'-0"	
484	180	25'-0"	
485	180	25'-0"	
486	180	25'-0"	
487	180	25'-0"	
488	180	25'-0"	
489	180	25'-0"	
490	180	25'-0"	
491	180	25'-0"	
492	180	25'-0"	
493	180	25'-0"	
494	180	25'-0"	
495	180	25'-0"	
496	180	25'-0"	
497	180	25'-0"	
498	180	25'-0"	
499	180	25'-0"	
500	180	25'-0"	
TOTAL STEEL			182,012

CONCRETE	REINFORCING STEEL
Class 'F' Spans (Except Balling)	
Four #1 (P. 255.5) = 100.0 C.Y.	
Four #2 (P. 216.5) = 60.0 "	
Four #3 (P. 11.8) = 35.2 "	
Four #4 (P. 235.8) = 71.6 "	
Four #6 (P. 11.2) = 39.7 C.Y.	
TOTAL	347.7 C.Y.
Class 'F' Balling Conc. = 176 C.Y.	
MISCELLANEOUS	
Blueignum Rolling Type 3 = 52.57 L.F.	
2-1/2" Dia. 10' C.I. Soil Pipe	
2-1/2" Dia. 1/2" x 1/2" L.F.	



STRUCTURAL STEEL				
No. Pcs	Section	Length	Location	Weight
12	R 6x1 1/4	1'-7"	SP (Straighten)	4.85 #
6	R 12x1 1/4	1'-7"	SP (")	4.85 #
12	R 6x1 1/4	1'-7"	EP (")	6.75 #
6	R 12x1 1/4	1'-7"	EP (")	6.75 #
36	1" Rod	1'-0"	AR (Anchor Rod)	9.6 #
36	#6 Bar	1'-0"	AB	5.4 #
			Total	2,475 #

Bronze Plates = 525 Lbs.



SIZE & MARK	NO. OF BARS	LENGTH
467.5	12	21-7/8" 74.3"
3	12	21-5/8" 74.7"
3	12	21-3/8" 75.7"
470.9	12	21-1/8" 76.2"
1	12	21-3/4" 76.5"
2	12	21-5" 76.4"
3	12	21-3/4" 76.3"
4	12	21-1/4" 74.2"
5	12	21-3/8" 74.1"
6	12	21-3/4" 74.1"
7	12	21-3" 74.0"
8	12	21-2 3/4" 74.0"
9	12	21-2 1/2" 74.0"
480.9	12	21-2" 74.0"
1	12	21-1 3/4" 74.0"
2	12	21-1 1/2" 74.0"
3	12	21-1 1/4" 74.0"
4	12	21-1 1/8" 74.0"
5	12	21-1 1/4" 74.0"
6	12	21-1 1/8" 74.0"
7	12	21-1 1/4" 74.0"
8	12	21-1 1/8" 74.0"
9	12	21-1 1/4" 74.0"
486.9	12	21-1 1/8" 74.0"
487.5	12	21-1 1/4" 74.0"

SIZE & MARK	NO. OF BARS	LENGTH
467.5	12	21-7/8" 74.3"
3	12	21-5/8" 74.7"
3	12	21-3/8" 75.7"
470.9	12	21-1/8" 76.2"
1	12	21-3/4" 76.5"
2	12	21-5" 76.4"
3	12	21-3/4" 76.3"
4	12	21-1/4" 74.2"
5	12	21-3/8" 74.1"
6	12	21-3/4" 74.1"
7	12	21-3" 74.0"
8	12	21-2 3/4" 74.0"
9	12	21-2 1/2" 74.0"
480.9	12	21-2" 74.0"
1	12	21-1 3/4" 74.0"
2	12	21-1 1/2" 74.0"
3	12	21-1 1/4" 74.0"
4	12	21-1 1/8" 74.0"
5	12	21-1 1/4" 74.0"
6	12	21-1 1/8" 74.0"
7	12	21-1 1/4" 74.0"
8	12	21-1 1/8" 74.0"
9	12	21-1 1/4" 74.0"
486.9	12	21-1 1/8" 74.0"
487.5	12	21-1 1/4" 74.0"

NOTE: For Bidding Diagrams not shown see Drawing No. C7. For location of piers see Pier Diagram Drawing No. C8.

REQUIRED		
12	Sole Plates	SP
12	Expansion Plates	EP
12	Bed Plates	BP
6	Self Lubricating Bronze Plates	SLBP
36	Anchor Rods	AR

SCALE: 1/2" = 1'-0" UNLESS NOTED JANUARY 14, 1960
RECOMMENDED FOR APPROVAL: [Signature]

DRAWING: C10 OF 10
PROJECT: F-156(2)
BRIDGE CONTRACT NO. 5495
BRIDGE FILE: 67-5-4235

ITEM	STRUCTURE QUANTITIES																				
	CONCRETE				REINFORCING STEEL (1934 STD. WTS.)												STRUCTURAL STEEL	CAST IRON	14" STEEL RAILING	ALUMINUM RAILING (TYPE 3)	BRONZE PLATES
	CLASS F	CLASS D	CLASS E	CLASS F	*11(1/2")	*10(1/2")	*9(1/2")	*8(1/2")	*7(1/2")	*6(1/2")	*5(1/2")	*4(1/2")	*3(1/2")	*2(1/2")	TOTALS						
	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	
SUBSTRUCTURE																					
BENT NO. 1	13.0																				
PIER NO. 2	20.0																				
PIER NO. 3	12.0		32.8	6.5																	
PIER NO. 4	12.0		83.3	24.5																	
PIER NO. 5	20.0		83.3	24.5				107	874												
BENT NO. 5	13.0		32.8	6.5																	
SUPERSTRUCTURE																					
SPAN A	49.3																				
SPAN B,C,D	347.7																				
SPAN E	49.3																				
BILL OF SPICE BARS																					
Integral Conc. Curb	0.6																				
Drainage Turnouts	0.0																				
TOTALS																					
	536.9		232.6	62.0	26.6	55436	5223	3402	1764	4018	47868	23129	1140	172584	2478	144	30	900	406.7	528	

BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJ. NO.	FISCAL YEAR	BRIDGE NO.	TOTAL SPAN
4	IND.	F-136	1960	15	20

SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
1	Class F Concrete	Cu. Yds.	536.9
2	Class D Concrete	Cu. Yds.	
3	Class E Concrete above Footings	Cu. Yds.	232.6
4	Class E Concrete in Footings	Cu. Yds.	62.0
5	Railing Concrete	Lin. Ft.	
6	Reinforcing Steel	Lbs.	172584
7	Structural Steel	Lbs.	
8	Cast Iron	Lbs.	144
9	Untreated Timber Piles Furnished	Lin. Ft.	
10	Untreated Timber Piles Driven	Lin. Ft.	
11	Furnishing Equipment for Driving Piles	Lump Sum	1
12	Wet Excavation	Cu. Yds.	385
13	Waterway Excavation	Cu. Yds.	730
14	Common Excavation	Cu. Yds.	50
15	Special Borrow	Cu. Yds.	9480
16	Grade B Special Borrow	Cu. Yds.	100
17	Bedding	Sq. Yds.	450
18	Mulched Seeding	Sq. Yds.	2350
19	Cement Concrete Pavement	Sq. Yds.	
20	Reinforced Cement Concrete Pavement (9)	Sq. Yds.	1625
21	Thickened Reinf. Cement Concrete Pavement	Sq. Yds.	
22	Aggregate for Compacted Aggregate Base	Tons	382
23	Removal Present Structure	Lump Sum	1
24	Temporary Bridge and Approaches	Lump Sum	1
25	Warning Signs	Each	
26	Std. Barricades (Type A)	Each	2
27	Class D Concrete in Structures	Cu. Yds.	
28	R/W Markers	Each	
29	Steel Pile Shells Furnished (14)	Lin. Ft.	900
30	Steel Pile Shells Driven (14)	Lin. Ft.	900
31	Railing Concrete (Parapet Wall)	Cu. Yds.	26.6
32	Aluminum Railing (Type 3)	Lin. Ft.	406.7
33	Bronze Plates	Lbs.	528
34	Paved Side Ditch (Type A)	Lin. Ft.	110
35	Slope Wall	Sq. Yds.	800
36	1" Expansion Joint	Lin. Ft.	122
37	Small Beam Guard Rail	Lin. Ft.	120
38	Subbase	Cu. Yds.	445
39	1" Exp. Joint with Lead Transfer	Lin. Ft.	144
40	Contraction Joints	Lin. Ft.	210
41	Compacted Agg. Shoulder	Tons	169
42	8" B.C.C.M. Pipe	Lin. Ft.	20
43	Typical Sign Standards	Each	14
44	Standard Signs	Each	16
45	Structural Steel	Lump Sum	1
46	Pavement Removal	Sq. Yds.	210
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			

BILL OF SPICE BARS				
Size	Number	Pieces	Length	Weight
#11	3		11'-0"	175
#10	2		10'-6"	155
#8	2		8'-9"	147
#7	1		8'-0"	116
#6	3		7'-6"	142
#5	3		6'-3"	125
#4	4		5'-0"	116
#3	3		3'-6"	74
Total Splice Bars				374

BILL OF MATERIALS FOR R.C. BRIDGE APPROACH				
Size	No. Pcs.	Length	No. Pcs.	Length
#11	112	20'-0"		
#10	22	39'-0"		
DRAINAGE TURNOUTS				
#11	44	5'-9"		
#10	20	10'-0"		
#8	4	5'-0"		
#7	4	5'-3"		
#6	8	4'-0"		
#5	12	3'-6"		
#4	32	1'-9"		
#3	40	3'-0"		
Total				118
TOTAL STEEL				374

BARRICADES, BARRIERS, TRAFFIC SIGNS, & LIGHTS				
ITEM	UNIT	QUANTITY	ASSEMBLY	#833
STANDARD SIGN	Each	14	Signs: XXV-1 XXV-2 XXV-3 XXV-4 XXV-5 XXV-6 XXV-7 XXV-8 XXV-9 XXV-10 XXV-11 XXV-12 XXV-13 XXV-14 XXV-15 XXV-16 XXV-17 XXV-18 XXV-19 XXV-20 XXV-21 XXV-22 XXV-23 XXV-24 XXV-25 XXV-26 XXV-27 XXV-28 XXV-29 XXV-30 XXV-31 XXV-32 XXV-33 XXV-34 XXV-35 XXV-36 XXV-37 XXV-38 XXV-39 XXV-40 XXV-41 XXV-42 XXV-43 XXV-44 XXV-45 XXV-46 XXV-47 XXV-48 XXV-49 XXV-50 XXV-51 XXV-52 XXV-53 XXV-54 XXV-55 XXV-56 XXV-57 XXV-58 XXV-59 XXV-60 XXV-61 XXV-62 XXV-63 XXV-64 XXV-65 XXV-66 XXV-67 XXV-68 XXV-69 XXV-70 XXV-71 XXV-72 XXV-73 XXV-74 XXV-75 XXV-76 XXV-77 XXV-78 XXV-79 XXV-80 XXV-81 XXV-82 XXV-83 XXV-84 XXV-85 XXV-86 XXV-87 XXV-88 XXV-89 XXV-90 XXV-91 XXV-92 XXV-93 XXV-94 XXV-95 XXV-96 XXV-97 XXV-98 XXV-99 XXV-100	
STD. BARRICADES (TYPE A)	Each	2		
STD. BARRICADES (TYPE B)	Each			
STANDARD SIGNS	Each	6		
CONSTRUCTION IDENTIFICATION SIGNS	Each	2		

APPROACH STRUCTURES							
STRUCT. NO.	LOCATION	DESCRIPTION			REINFORCING STEEL LBS.	CAST IRON LBS.	REMARKS
		SIZE	KIND	LENGTH			
1	Rt. Sta. 150+20	8"	Bit. Cov. C.M. Pipe	20'			Connect to Pipe in place
TOTALS							Total of Reinf. Steel carried to Structure Quantities

*Not a pay item. Place as directed by engineer.

NOTE: Where typical sign standards are to be used in unpaved areas, the contractor will be permitted to use two posts set three (3) feet into the ground.

Safe speed to be used on W-35A signs to be determined by engineer at site.

Directional advisory or warning signs shall be right hand or left hand as the location of sign requires.

The weight of structural steel shown is approximate only and it shall be the responsibility of the contractor to determine the weight on which he bases his bid.

* For Temporary Bridge Approaches if used.

STATE HIGHWAY DEPARTMENT OF INDIANA

JANUARY 14, 1960

RECOMMENDED FOR APPROVAL: *C.R. Rimmer*

PROJECT: F-136(2)

BRIDGE CONTRACT NO. 5495

BRIDGE FILE: 67-5-4833

Rev. 1-5-62 Items 15, 17, 18, 28, 39, 40, 46
Rev. 1-14-62, Items 10, 20, 30, 39, 40, 41
Rev. 12-26-61 - Signs