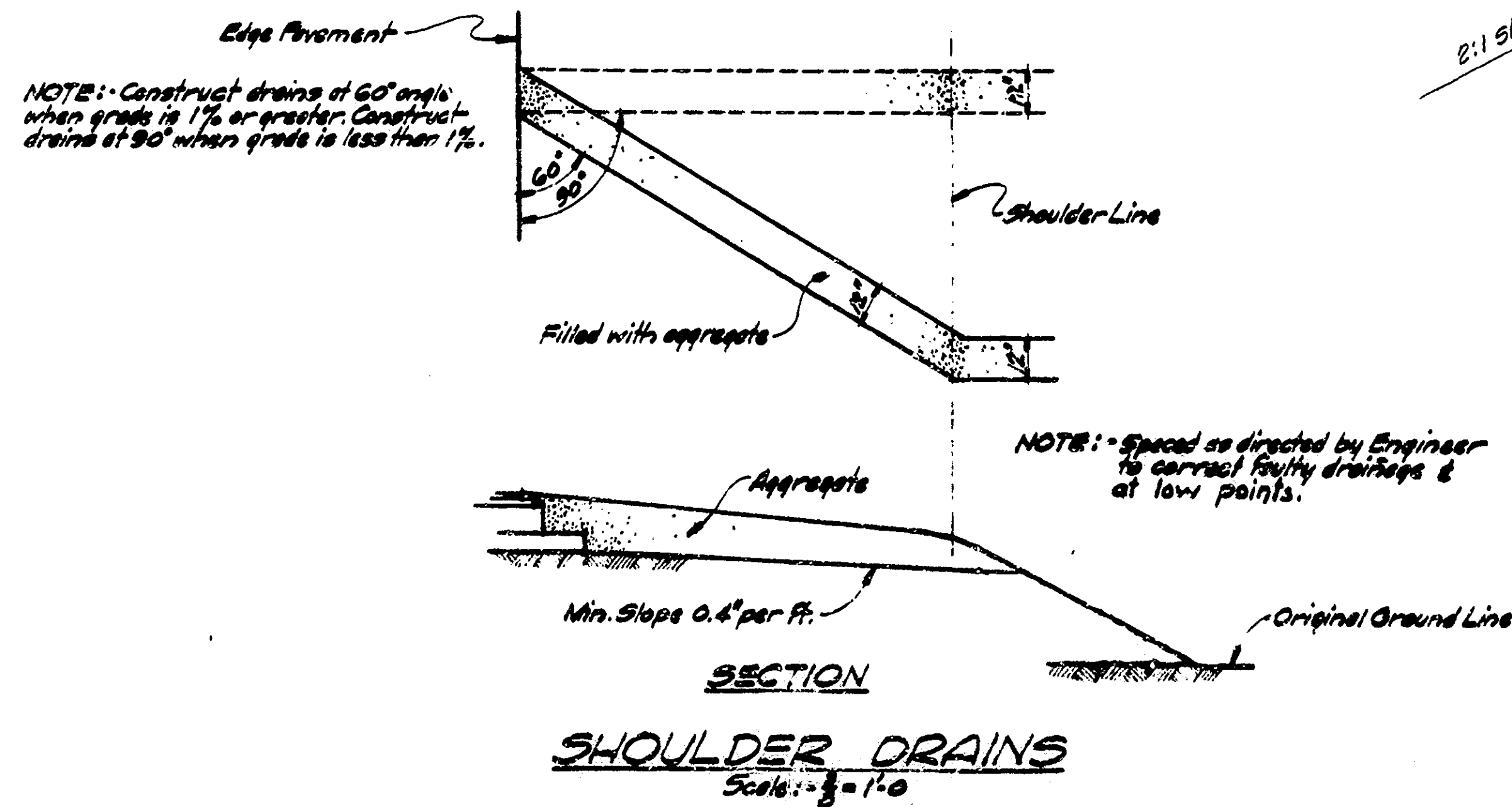
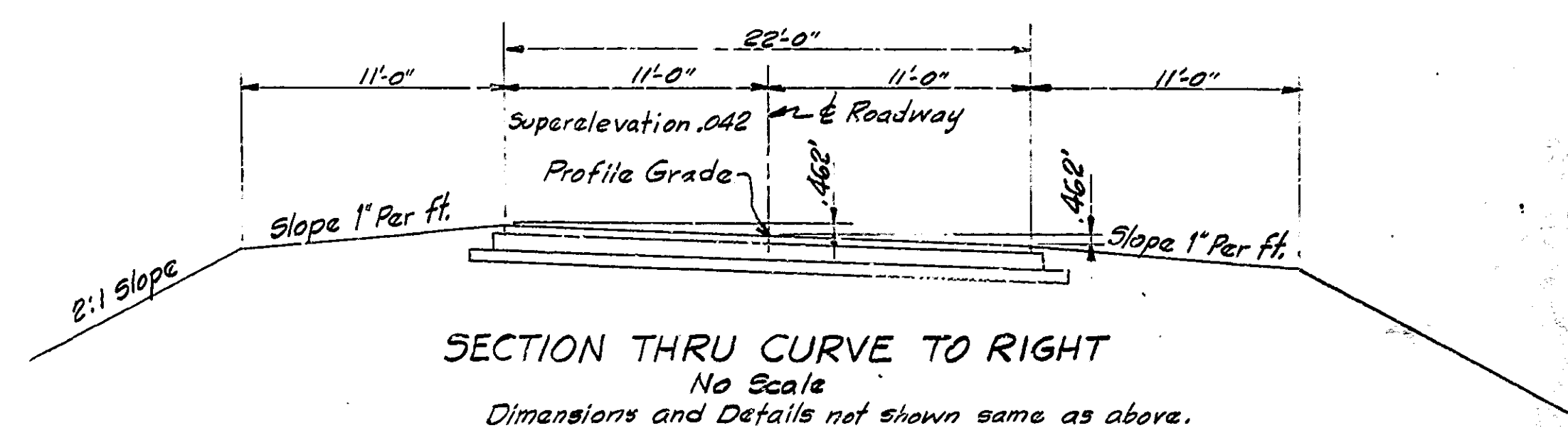
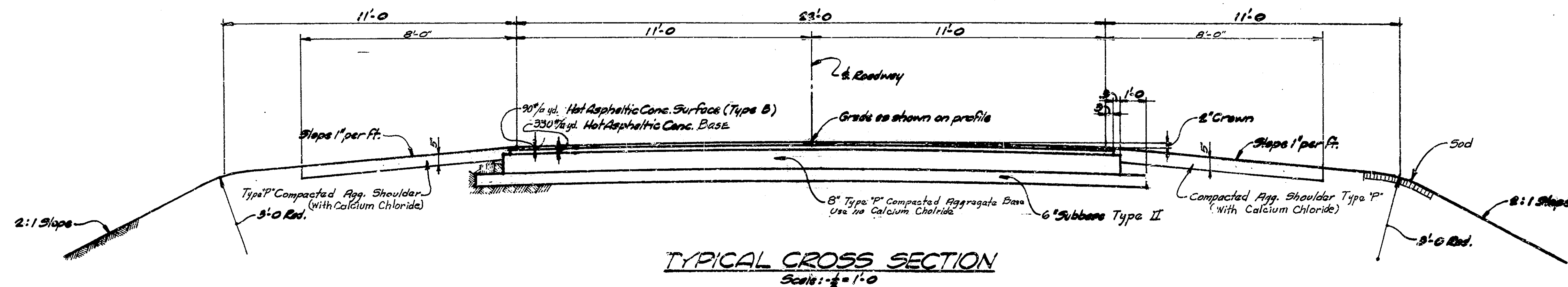


CHECKED OVER BY					
DATE	BY	DATE	BY	DATE	BY
4	IND	5-20-65	1965	2	53



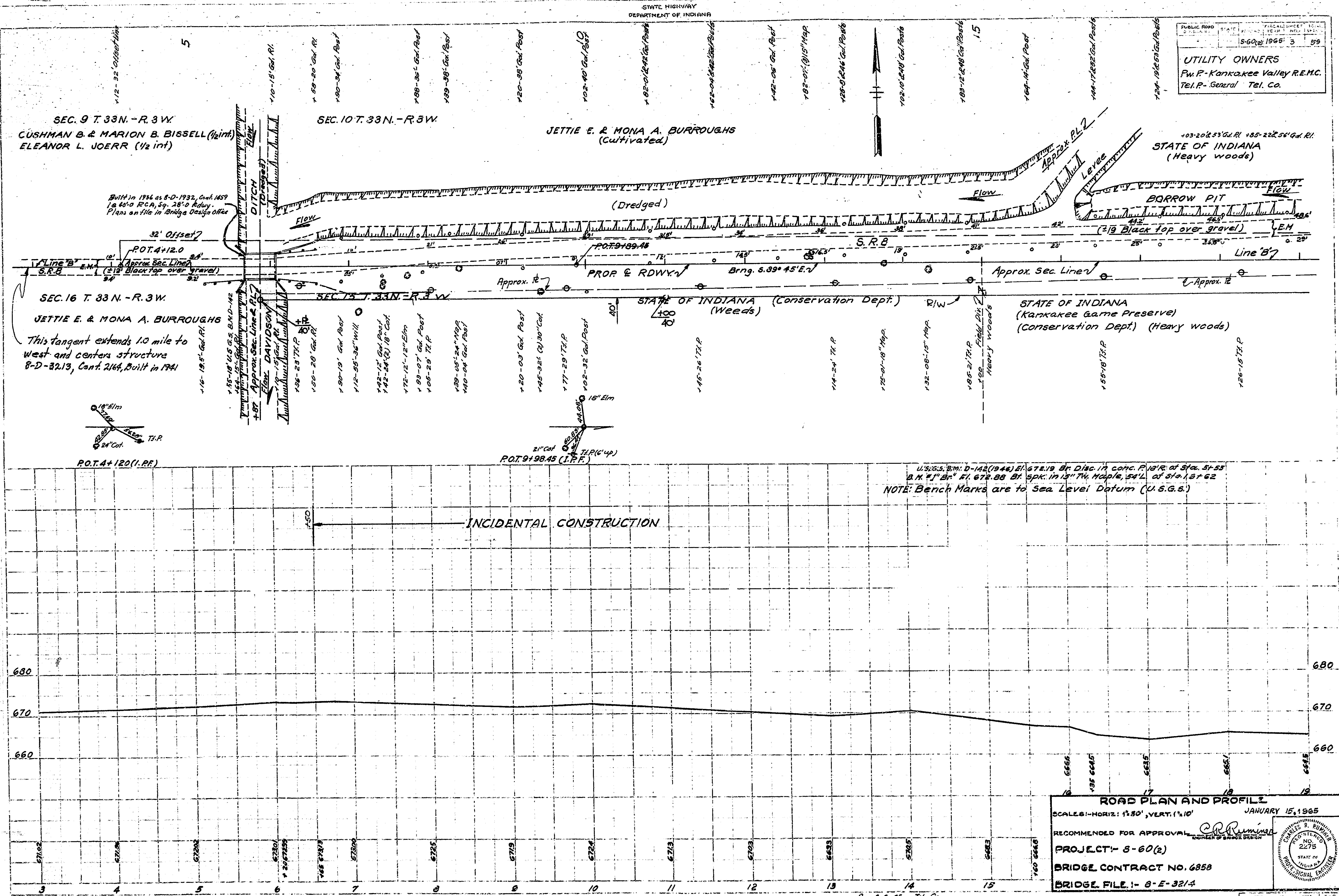
TYPICAL CROSS SECTION
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: AS NOTED
RECOMMENDED FOR APPROVAL: *C.R.P.*
DRAWING OF
PROJECT: 5-62(2)
BRIDGE CONTRACT NO. 6638
BRIDGE FILE: 5-2-5216

Rev. 4-6-66 ~ Curve Section
Rev. 7-2-66 Calcium Chloride

E.C. Hoffman
 Surveyor
 State of Indiana
 No. 1000
 Exp. 12-31-66
 M. C. Way Chief, D.

E.C. Hoffman
 Surveyor
 State of Indiana
 No. 1000
 Exp. 12-31-66
 M. C. Way Chief, D.



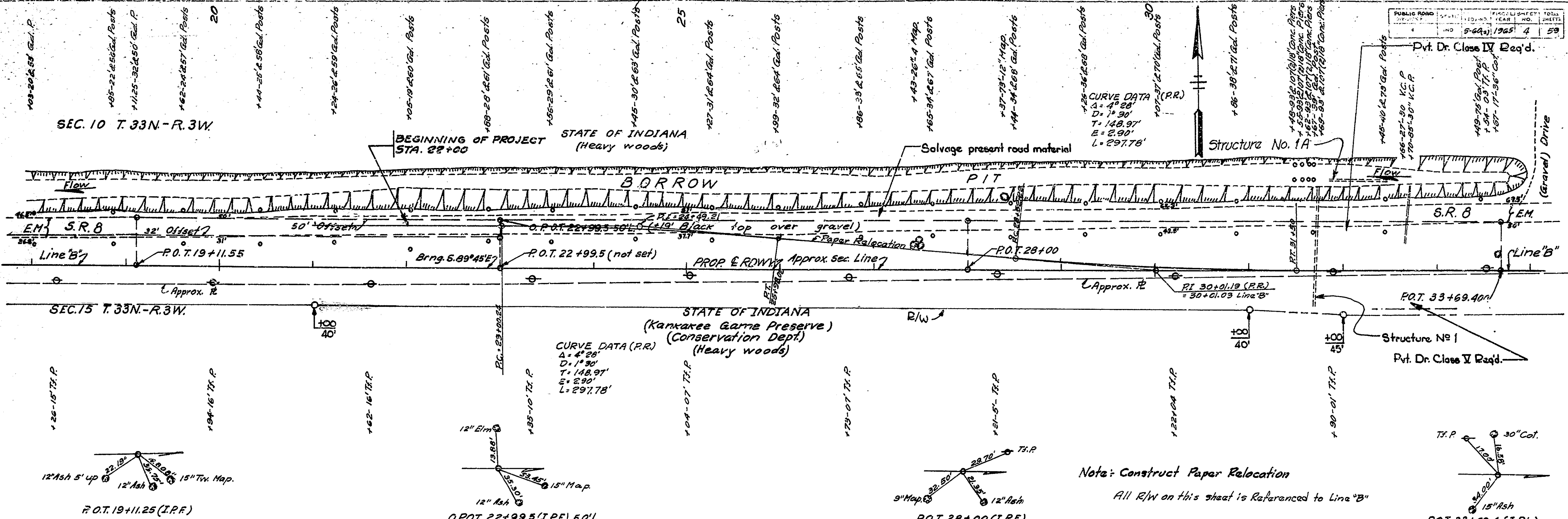
PUBLIC ROAD
 STATE OF INDIANA
 FISCAL YEAR
 1965
 3
 59
 UTILITY OWNERS
 P.M. - Kankakee Valley R.E.M.C.
 Tel. P. - General Tel. Co.

ROAD PLAN AND PROFILE
 SCALES: HORIZ. 1"=50', VERT. 1"=10'
 JANUARY 15, 1965
 RECOMMENDED FOR APPROVAL
 PROJECT: 8-60(2)
 BRIDGE CONTRACT NO. 6858
 BRIDGE FILE: 8-E-3214

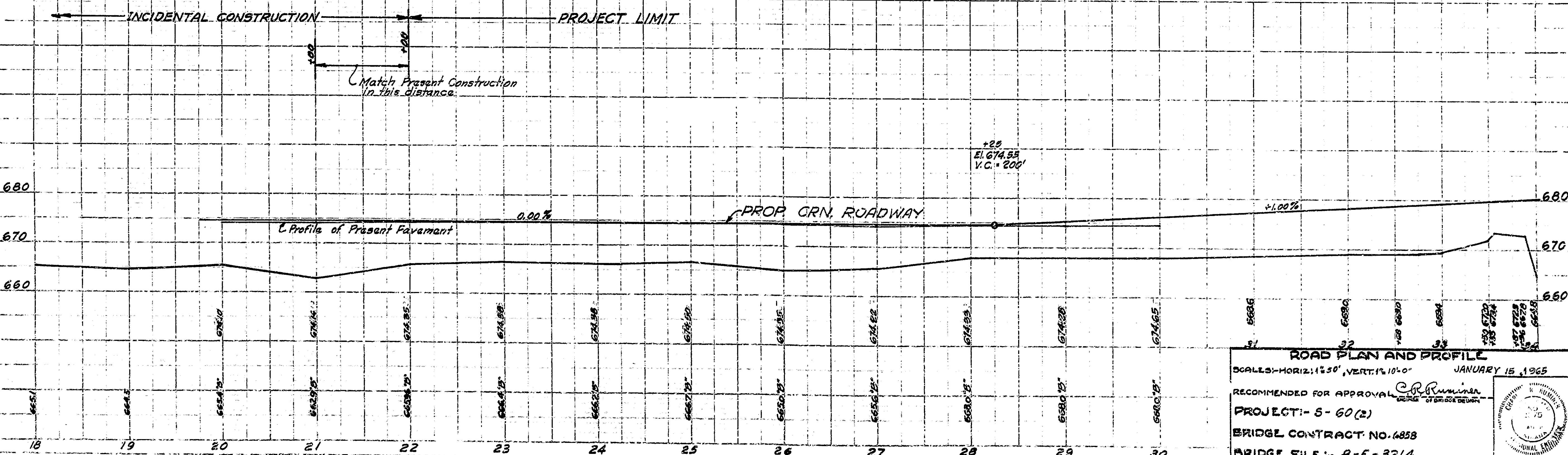
Rev. 8-6-55 Tel. Co.
 Rev. 4-6-66 Proj. Limits

STATE HIGHWAY
DEPARTMENT OF INDIANA

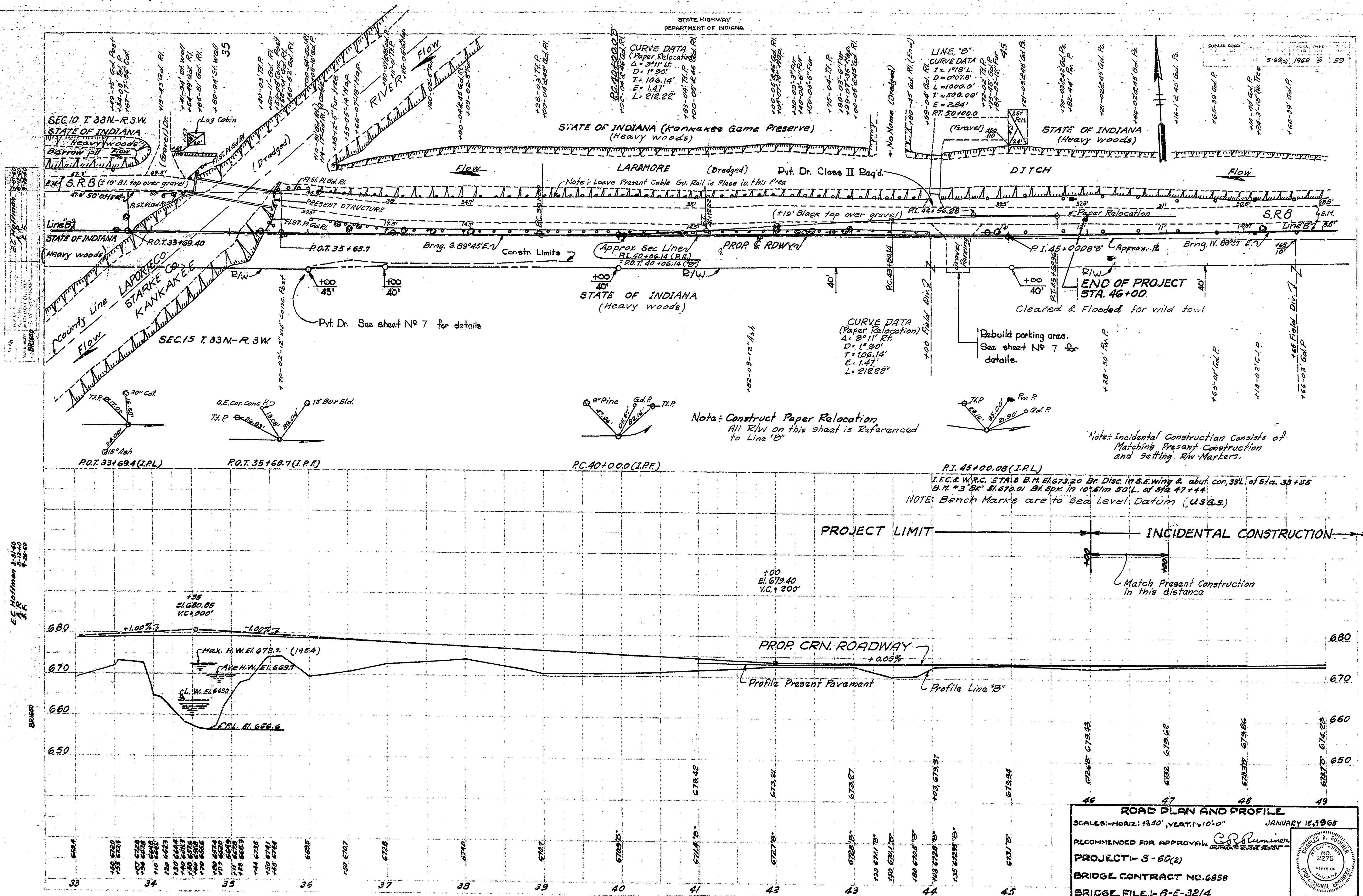
SEC. 10 T. 33N.-R. 3W.



Note: Incidental construction consists of
Matching Present Construction
and setting R/W Markers



ROAD PLAN AND PROFILE	
SCALES: HORIZ. 1"=50', VERT. 1"=10'-0"	JANUARY 15, 1965
RECOMMENDED FOR APPROVAL <i>C. R. Rimmer</i>	
PROJECT: 5-60(2)	
BRIDGE CONTRACT NO. 6853	
BRIDGE FILE: 8-E-3214	

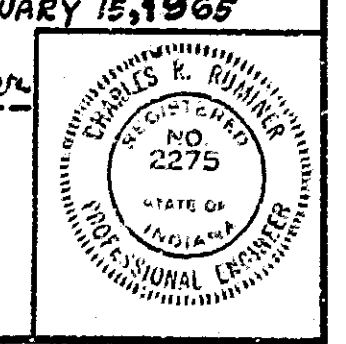


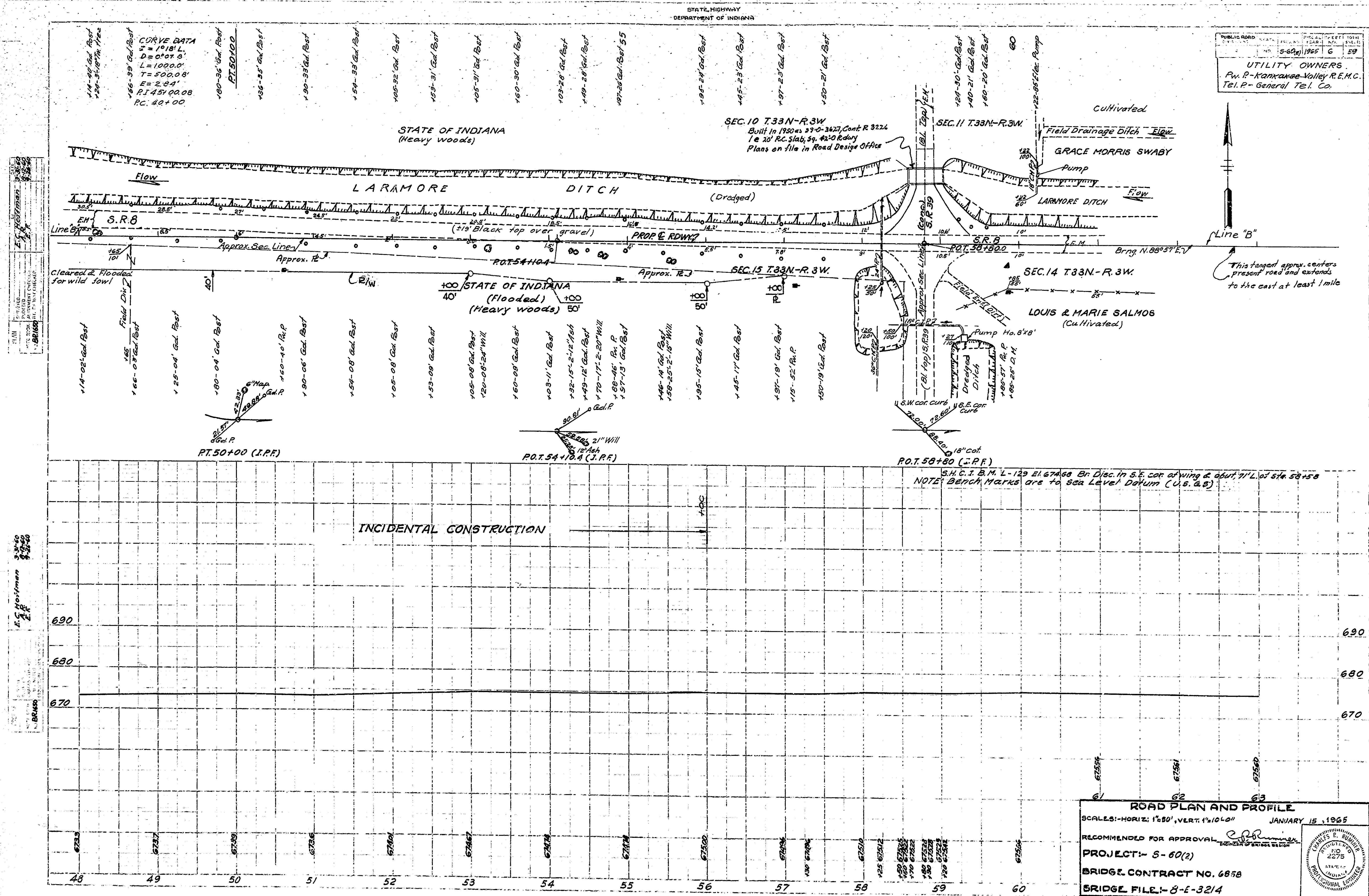
BRIDGE CONTRACT NO. 6858
BRIDGE FILE NO. 6-E-32/4
JANUARY 15, 1965

EC Hoffman 3-31-60
3-12-60
4-28-60

ROAD PLAN AND PROFILE
SCALE: HORIZ. 1"=50', VERT. 1"=10'-0"
JANUARY 15, 1965
RECOMMENDED FOR APPROVAL *CR Lummier*
PROJECT- S-60(2)
BRIDGE CONTRACT NO. 6858
BRIDGE FILE- 6-E-32/4

Rev. 4-6-66 Proj. Limits

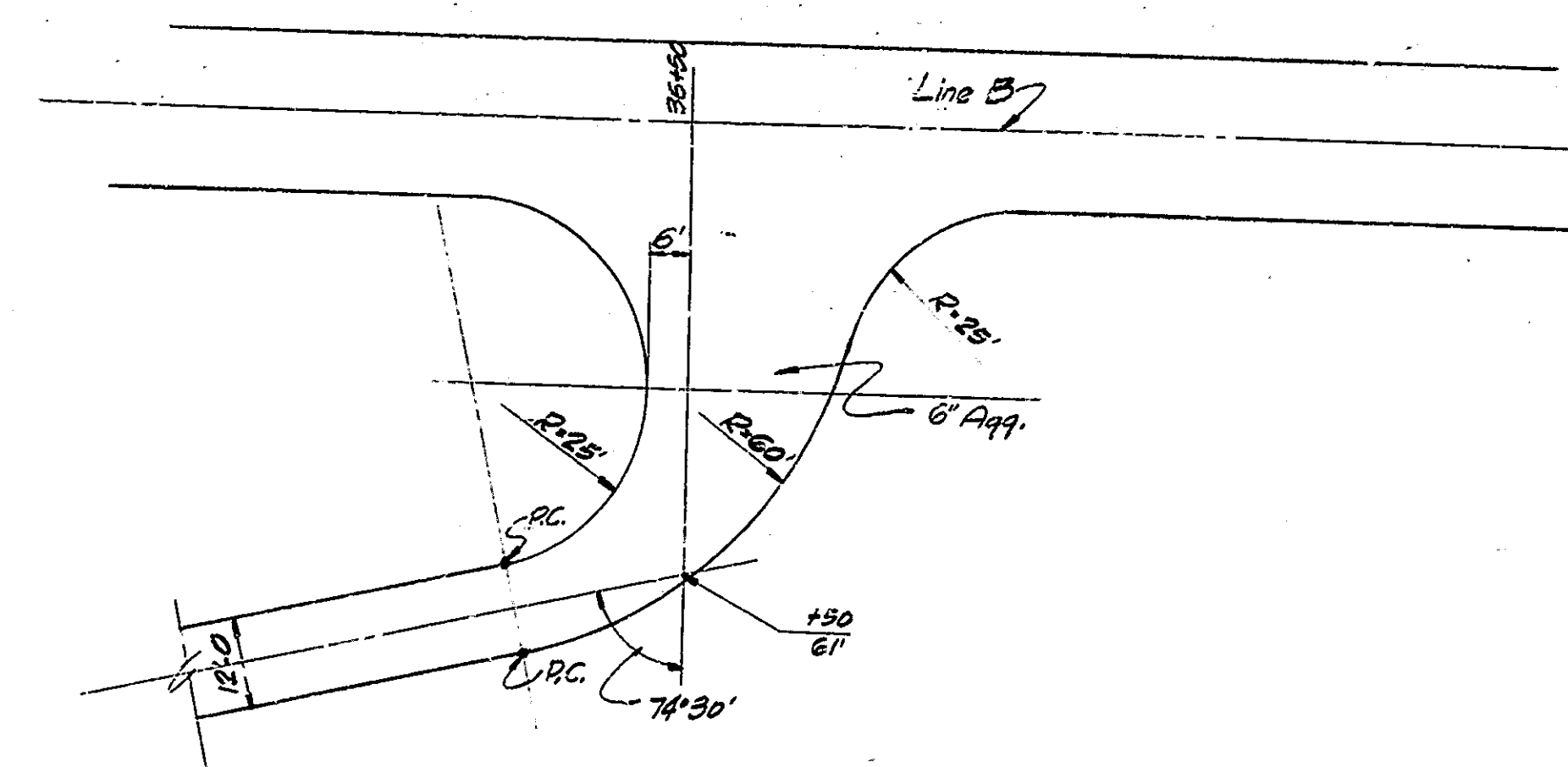




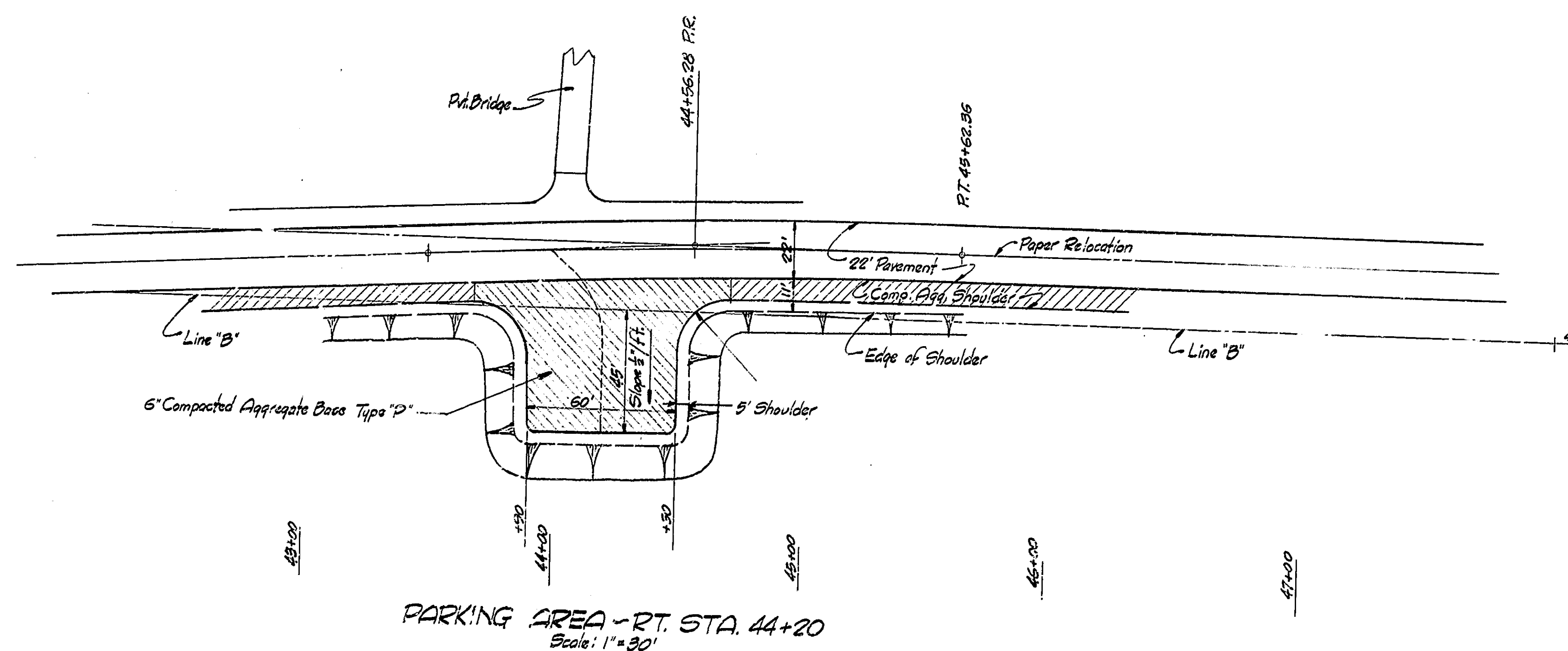
BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S-60(2)	1965	7	59

APPROACH TABLE												
STATION	DESCRIPTION	EARTH WORK (CU. YDS.)		WIDTH	RADII	GRADE Less Than 10% Not Shown	LENGTH	* DISTANCE Beyond R/W Line	HOT ASPHALTIC CONG. SURFACE 110*/Sq. Yd.	HOT ASPHALTIC CONG. BASE 220*/Sq. Yd.	3" COMP. AGG. BASE TYPE "P"	6" COMP. AGG. BASE TYPE "P"
		CUT	FILL									
Lt. Sta. 36+00	Pvt. Dr. Class V			12'			20'					
Rt. Sta. 36+50	Pvt. Dr. Class V		311	12'			30'					
Lt. Sta. 36+00	Pvt. Dr. Class IV		49	20'	20'		30'	56				
Rt. Sta. 36+50	Pvt. Dr.		233	See Det.	See Det.		200'	100'±	11	22	33	90
Lt. Sta. 44+00	Pvt. Dr. Class II			12'			20'	100'				
Rt. Sta. 44+75	Parking Area	110	160	See Det.			39'		4	8	16	180
		110	753						18	30	49	110
												380

* Right-of-Entry Required for Construction beyond R/W Line
* This Drive to be continued back to present parking area.



PRIVATE DRIVE - RT. STA. 36+50
Scale: 1" = 20'



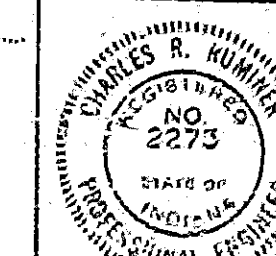
PARKING AREA - RT. STA. 44+20
Scale: 1" = 30'

DESIGNED: C.K.D.
DRAWN: C.K.D.
TRACED: C.K.D.

APPROACH DETAILS INDIANA STATE HIGHWAY COMMISSION

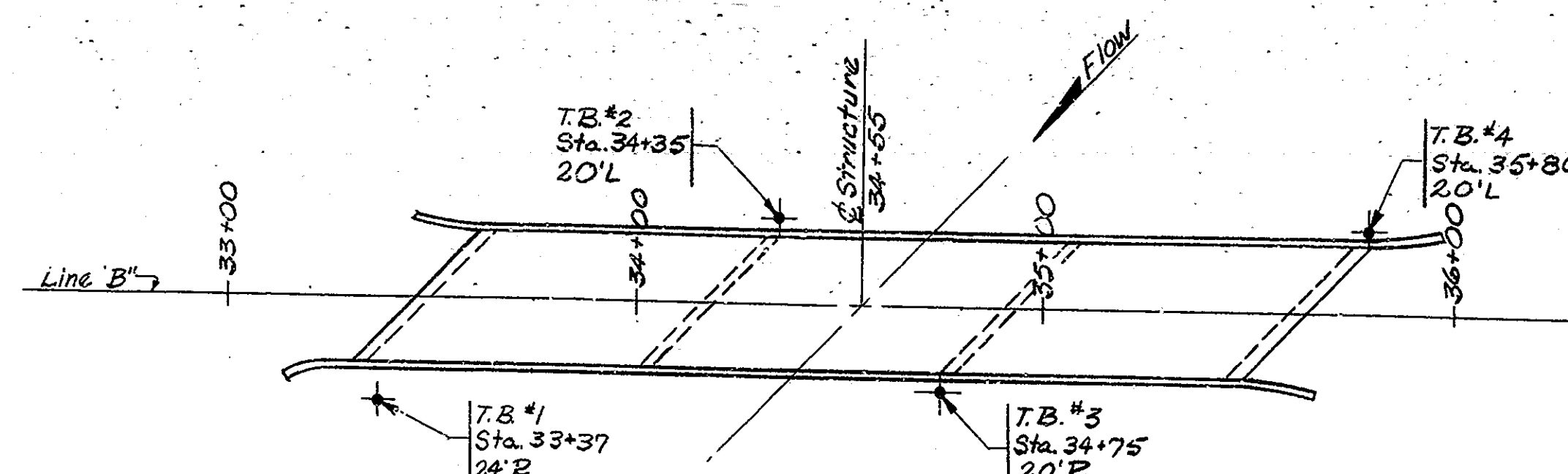
SCALE: - As Noted
RECOMMENDED FOR APPROVAL: JANUARY 15, 1965

DRAWING: OF
PROJECT: S-60(2)
BRIDGE CONTRACT NO. 6858
BRIDGE FILE: S-E-3214



BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.	NO.	NO.	YEAR	NO.	SHEETS
4	IND.	5-60(2)	1965	8	59

NOTE:
N* indicates number of blows per foot in standard penetration test - Driving 2" O.D. Sampler 1' with 140# hammer falling 30"; Count made at 6" intervals.



BORING PLAN

Scale: 1" = 30'-0"

SOIL BORING #1 33+37 24'2 Surf. El. 673.8			SOIL BORING #1 (Con't.)			SOIL BORING #2 34+35 20'L Surf. El. 659.8			SOIL BORING #3 34+75 20'R Surf. El. 660.9			SOIL BORING #4 35+80 20'L Surf. El. 674.2		
N*	Depth		N*	Depth		N*	Depth		N*	Depth		N*	Depth	
2/3	0.5	Surface El. 673.8	7/5	73.0	Light gray saturated very soft to medium stiff silty loam.	3/8	10.5	Surface El. 659.8	0/1	1.1	Surface El. 660.9	6/4	0.5	Surface El. 674.2
2/3	2/3	Black moist very loose fine sand with trace of organic matter (topsoil) for 0.5'	4/5	59.5	Light brown saturated medium dense to loose silty loam.	6/11	4.0	Gray moist soft silty clay.	7/10	7/10	Gray moist very soft silty clay with organic matter.	2/1	2.5	Black moist medium dense sandy loam with oil (Road fill) for 0.5'
3/4	3.0	Brown moist very loose to loose fine sand (Fill).	4/4	59.0		8/13	4.0	Gray wet medium dense fine to coarse sand.	7/10	7/10	Gray wet medium dense sand.	1/2	6.0	Red and brown moist loose sandy loam (Fill).
3/1	11.0	Dark brown moist loose fine sandy loam with trace of organic matter.	4/4	59.0		10/12	6.0	Brown wet medium dense to dense fine to medium sand.	7/8	7/8		7/0	7.0	Yellow and brown moist very soft silty loam.
6/8	16.5	Dark brown moist very soft to medium stiff silty loam.	15/11.5	90.5	Gray moist medium dense silty loam with some gravel.	15/18	6.0		20/23	15.1		3/3	12.5	Red and brown saturated very soft sandy loam with 3-in. loam layers.
6/8	19.0	Light gray saturated medium dense fine sand.	57/51	95.9	Gray moist hard silty clay loam with some gravel.	36/34	20.0		10/12	23.4	Gray moist to wet very dense to medium dense sand with trace of fine gravel.	2/1	15.0	Red and brown saturated soft loam.
8/11	35.0		57/51	95.9	Gray moist very dense silty loam with trace of gravel.	36/34	20.0		10/12	23.4		14/15	20.0	Black saturated very soft loam with trace of wood.
7/12	35.0	Light brown saturated medium dense fine sand.			Bottom of test boring.	30/20	30.0		15/15	29.1	Gray moist to wet dense sand and fine to medium gravel.	12/13	39.0	Gray saturated stiff silty loam with trace of clay.
10/12	35.0					25/24	30.0		15/15	29.1		9/10	39.0	Light gray saturated medium dense to very dense fine sand.
15/17	43.0	Light gray dense to medium dense fine to coarse sand.				16/25	35.0		8/14	34.1		7/12	39.0	
10/12	43.0					10/12	46.5	Gray wet dense to medium dense medium to coarse silty sand.	8/10	47.4	Gray saturated medium dense fine to medium sand with trace of gravel.	50/50	50.0	Bottom of test boring.
4/4	45.5	Light gray saturated loose fine to coarse sand and gravel.				9/12	46.5		8/12	47.4		7/14	50.0	Light gray saturated medium dense to dense fine to coarse sand with trace of gravel.
4/4	48.0	Light gray saturated medium stiff silty clay loam.						Bottom of test boring.				17/19	50.0	
2/1	50.5	Light gray saturated loose fine sand.										21/25	50.0	Light gray saturated dense fine to coarse sandy loam.
2/2	50.5												50.0	Bottom of test boring.
2/3	50.5	Light gray saturated very soft to medium stiff silty loam.												
4/4	50.5													
3/3	50.5													

SOIL BORING LOG

Vert. Scale: 1" = 6'-0"

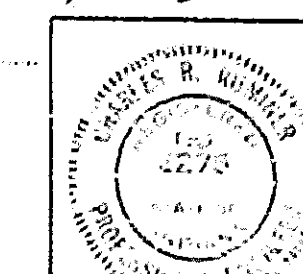
TEST BORING DATA INDIANA STATE HIGHWAY COMMISSION

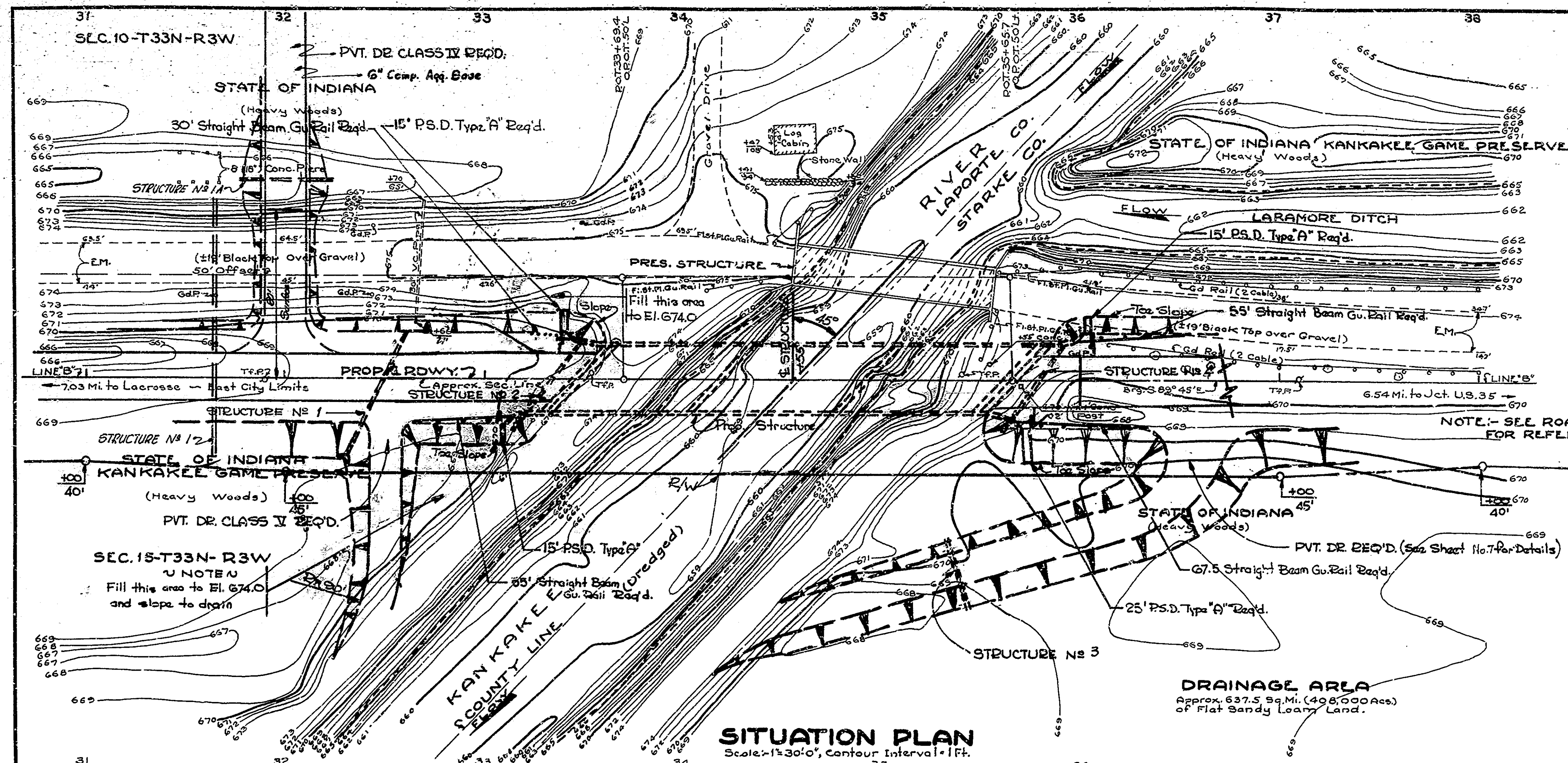
SCALE: AS NOTED

JANUARY 15, 1965

RECOMMENDED FOR APPROVAL: *C. R. Sumner*

DRAWING: OF
PROJECT: 5-60 (2)
BRIDGE CONTRACT NO. 6850
BRIDGE FILE: 5-E-3214

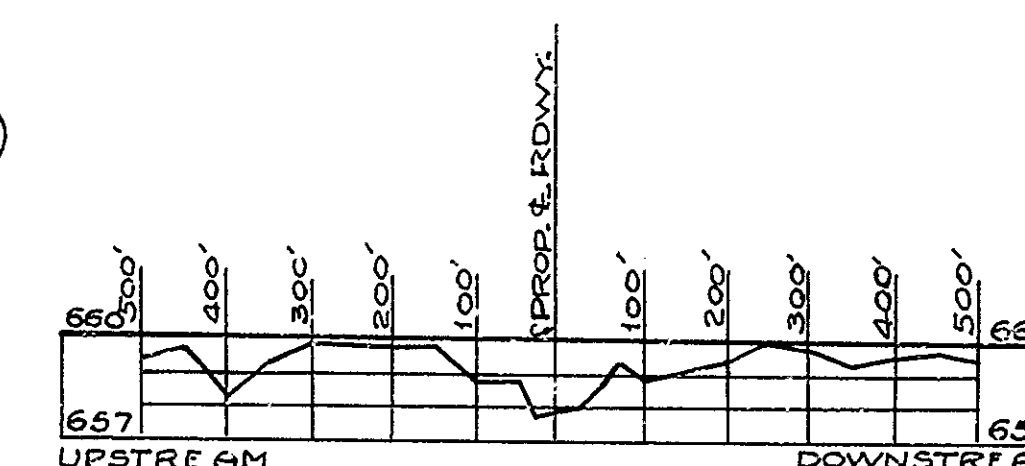




BRIDGES OVER 20' SPAN					
PUB. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	5-60	1965	9	59

UTILITY OWNERS
T.E. Lines General Tel. Co.
Am. R. Kankakee Valley R.E.M.C.

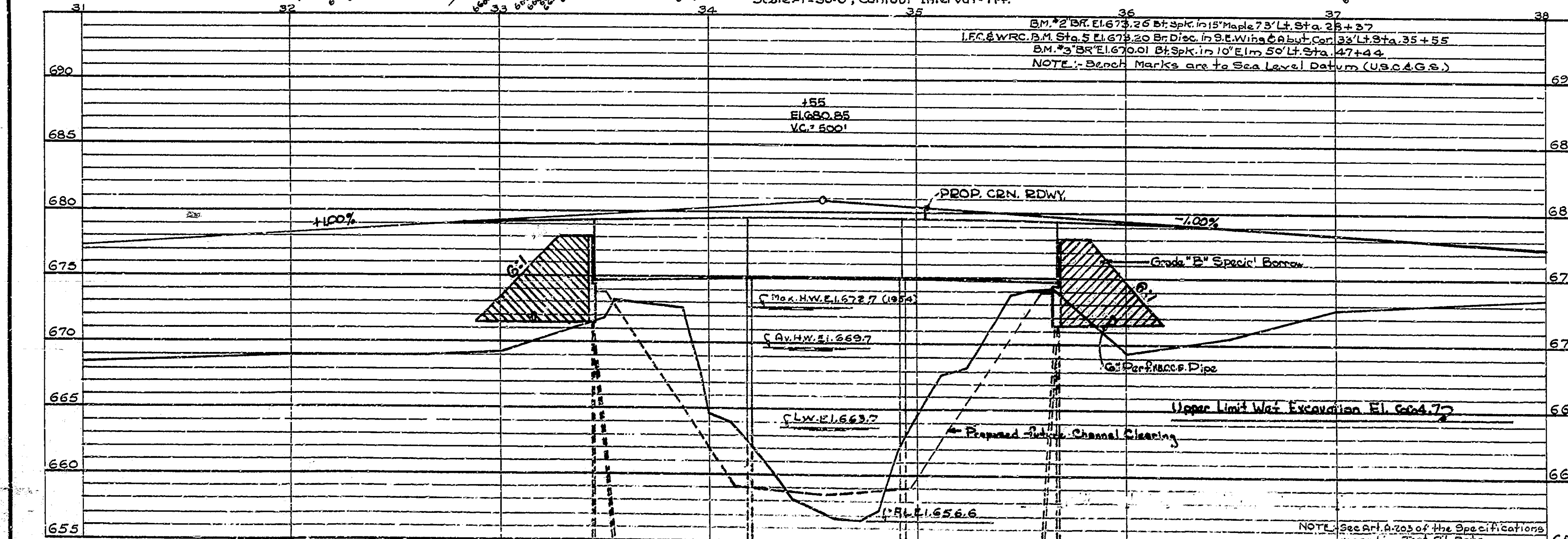
PRESENT STRUCTURE
Built by County Clear Span 102'- Steel Truss Square
Clear Roadway 15'6".
FLOOR BEAMS
5-15" I_a 429"x16"0"
Approx. Wt. Str. Steel = 30 Tons



PROFILE OF STREAM
Scales: Horizontal = 200'-0" Vertical = 5'-0"

Fill + 20%	23,050 Cu. Yds.
Surplus Excavation	80 Cu. Yds.
*Common Excavation	3,110 Cu. Yds.
Special Borrow	19,000 Cu. Yds.

* This value contains bor. of Unsuitable Material, from ditches, which must be wasted.



PROFILE ON PROPOSED ROADWAY
Scales: Horizontal = 30'-0" Vertical = 5'-0"

LAYOUT
PRESTRESSED REINFORCED CONCRETE BEAM BRIDGE
3 SPANS ~ 69'-10 1/8" ~ 69'-10 1/8" ~ 69'-10 1/8" SK. 45° BT. 31° CL. RDWY.
OVER KANKAKEE RIVER ON S.R. 8
STATE HIGHWAY DEPARTMENT OF INDIANA
LAPORTE & STARK COUNTIES

SCALE: A = NOTED JANUARY 15, 1965

RECOMMENDED FOR APPROVAL: *C. R. L. L.*

DRAWING: C-1 OF 10

PROJECT: 5-60(2) STATION: 34 + 55

BRIDGE CONTRACT NO. 6858

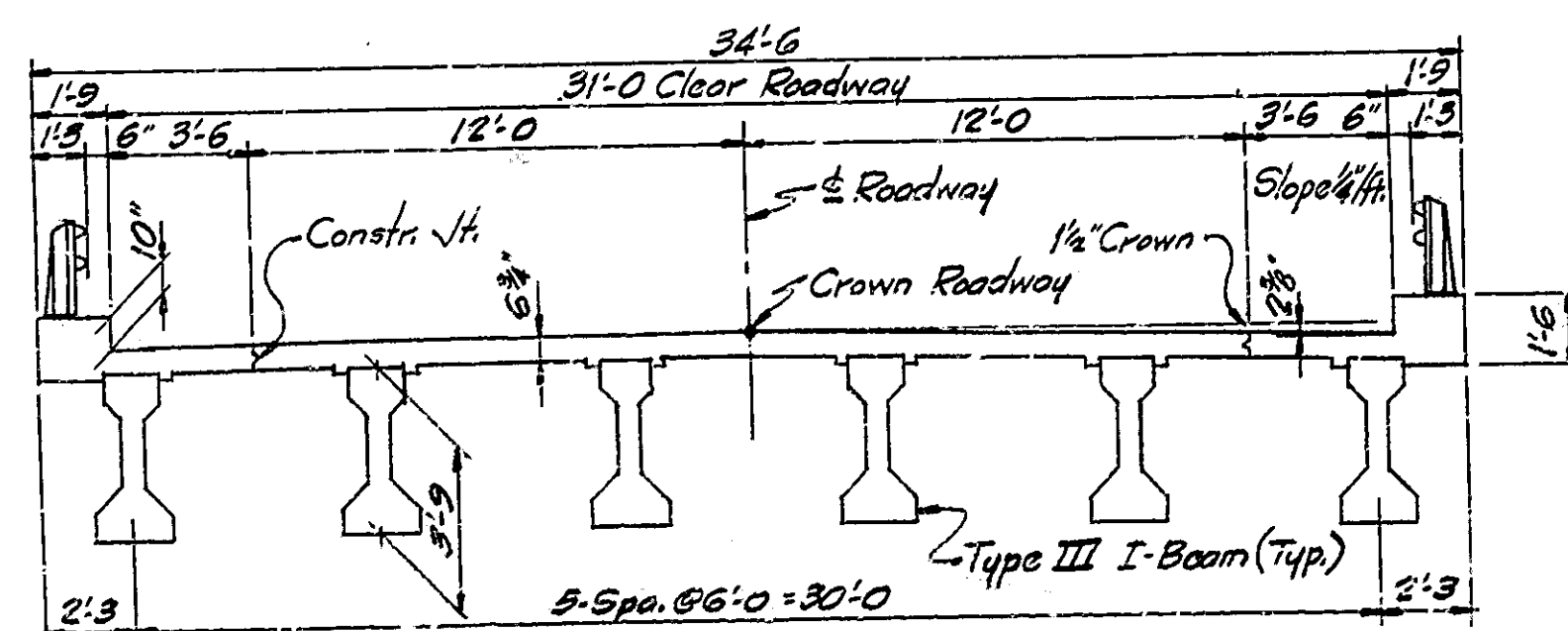
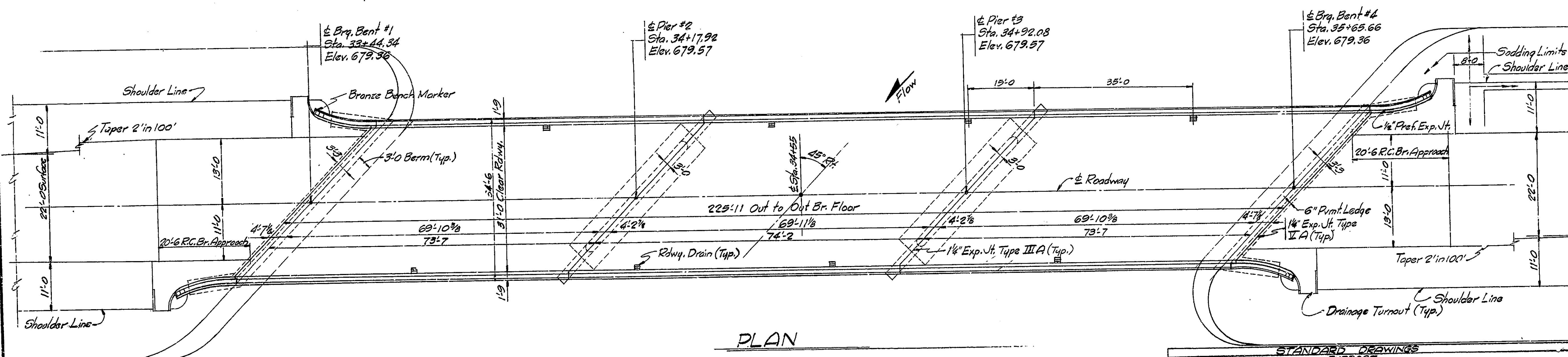
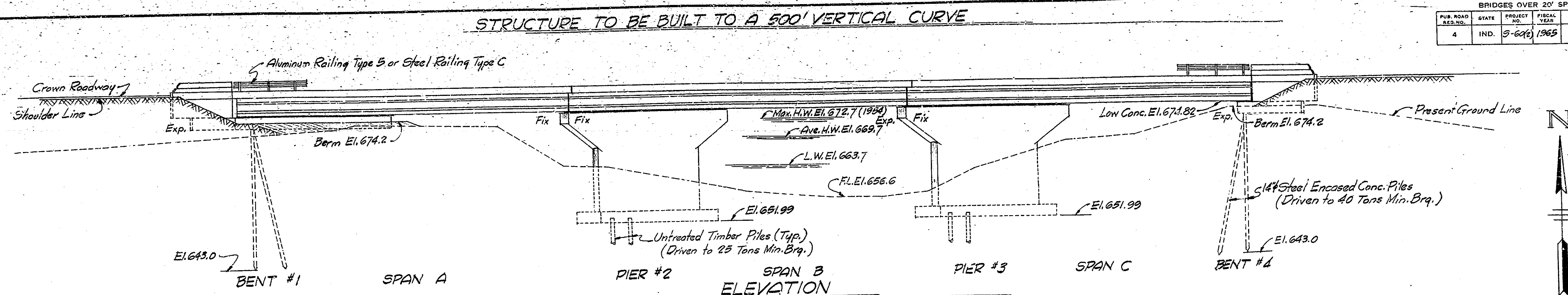
BRIDGE FILE: 8-1-3214

Rev. 8-6-65 Grading & Tel. Co.

Rev. 7-21-65 F.B.C.C.M. Pipe

NOTE: FIELD NOTES, BOOK BR. 1650 P. 26-79

BRIDGES OVER 20' SPAN					
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	5-60(2)	1965	10	5



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

DESIGN DATA

Designed for HS 20-44 loading in accordance with 1961 AASHTO Specifications.

TYPICAL CROSS SECTION

See Sheet No. 2

GENERAL NOTES

Depth of footings to be extended if found necessary. See Art. 8403.2 (a) Specifications.
Piles shall have minimum bearing value shown on detail drawings. Determine pile lengths by Art. F103 and F203 of Specifications.
For details of steel encased concrete piles see Bridge Standard C, Special Provisions and applicable articles in the Specifications.
Piles shall be driven to elevation shown on plans or below if necessary to obtain desired bearing.
Reinforcing steel covering shall be 1/4 inches in top and 1 inch min. in bottom of floor slabs, 3/4 inches in footing except bottom steel which shall be 4 inches, and 2 inches in all other parts, unless noted.
Concrete in footings and pier stems up to construction joint to be class "E."
Concrete in superstructure, bent caps and top of pier stem down to construction joint to be class "F."
Concrete in paved side ditches and steel encased concrete piles to be class "D".
Continuous concrete piers shall be required between construction joints as shown on detail plans.
Waterproof wingwalls and back of mudwalls in accordance with the specifications.
Bevel forms 1/4" under copings; and chamfer exposed edges 1 inch unless noted.
Tolerance in position of steel encased concrete pile head maximum 2 inches.
All railings to be constructed perpendicular to grade.
See special provisions for items included in this contract.
Expansion Joint Armor to be shaped in shop to conform to transverse section of structure.
4 Roadway Drains to be placed as shown on this drawing.

STANDARD DRAWINGS		PURPOSE
Br. Sd.	Rd. Sd.	
C1		Pile Details, Reinf. Bar Notes.
J		Exp. Joints.
M1		Prt. Drs., Punt. Offsets, Paved Side Ditch, R/W Markers.
M3		R.C. Dr. App. Sect.
R/C		Aluminum Railing Details
R/R		Steel Railing Details
SG		Placement Grada. B' Borrow
PM		Prestressed Conc. I Beams
P/BO		Pre. Beam Tolerances
	✓	Standards for Superelevation
MH		Pvt. Dr.
MN		Backfill for Structures
MP		Pipe
GR1		Beam Guard Rail
R-E		Aluminum Railing Details
Sheet #1		Construction Identification Signs
Std. Draw.		Standard Detour Signs
Std. Draw.		Standard Detour Signs
Std. Draw.		Standard Detour Signs

GENERAL PLAN

PRESTRESSED REINF. CONC. T-BEAM BRIDGE
3-SPANS(SEE PLAN) SK. 45° RT. 31' ORDWY. 6" CURBS
OVER KANKAKEE RIVER ON S.R. 8

INDIANA STATE HIGHWAY COMMISSION
STARKE & LAPORTE COUNTY

SCALE: - $\frac{3}{32}'' = 1'-0$ Unless Noted

JANUARY 15, 1965

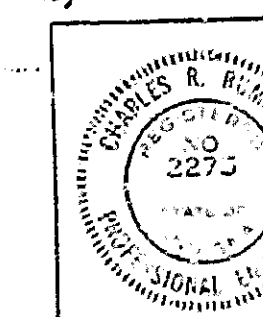
RECOMMENDED FOR APPROVAL: *C. R. Rimer*

DRAWING 50.0512

PROJECT:- S-60(2)

BRIDGE CONTRACT NO. 68

± STA. 34+55



DESIGNED _____ C'D _____
DRAWN DAS 11/8/69 C'D PER 3-25-69
TRACED _____ C'D _____

Rev. 4-6-66 n std. Draw.

BRIDGES OVER 20' SPAN					
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S-60(2)	1965	12	59

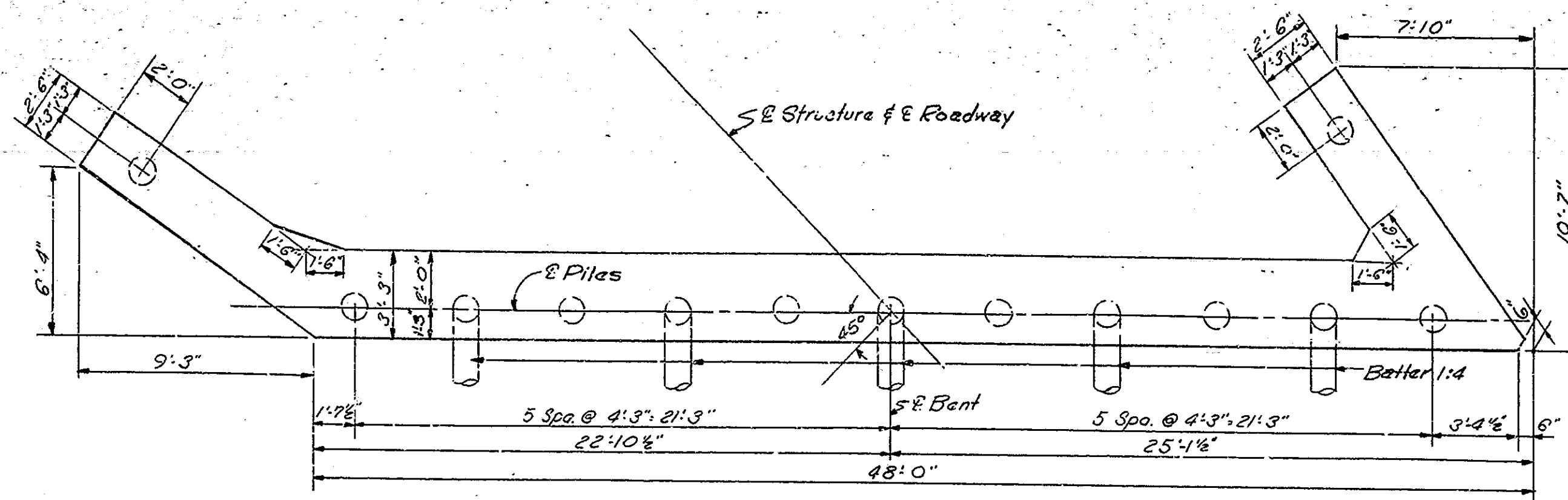
BILL OF MATERIALS

BENT No. 1 or No. 4

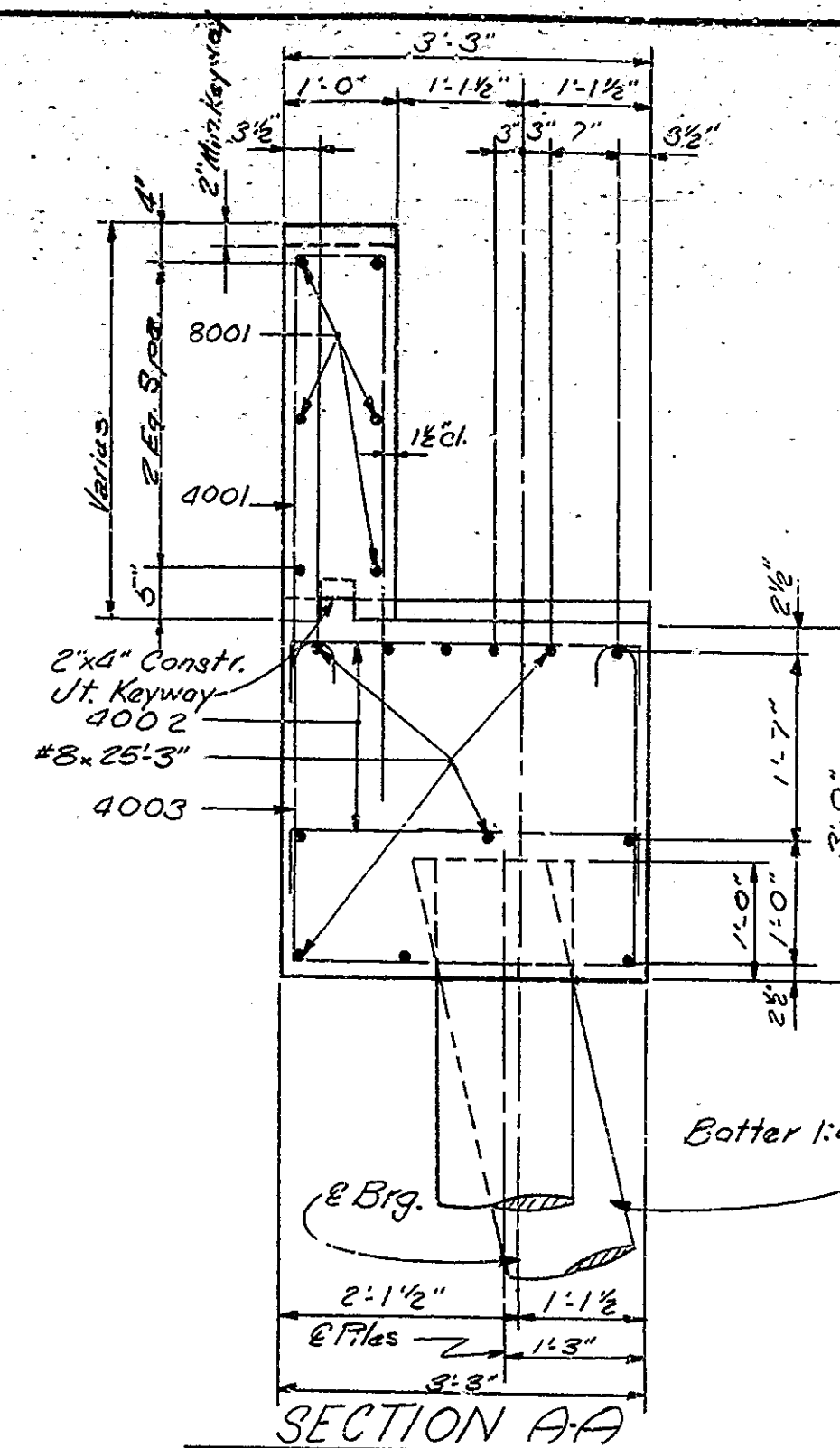
REINFORCING STEEL
5443 Lbs.

CONCRETE	
Class "F"	
Cap	23.2 Cu Yds
Wingwall	5.2 Cu Yds
Mudwall	4.7 Cu Yds
Total:	33.1 Cu Yds
MISCELLANEOUS	
13-14" x 7 ga. x (30'-0" approx) Steel	
Encased Concrete Piles = 390 Lin. Ft.	

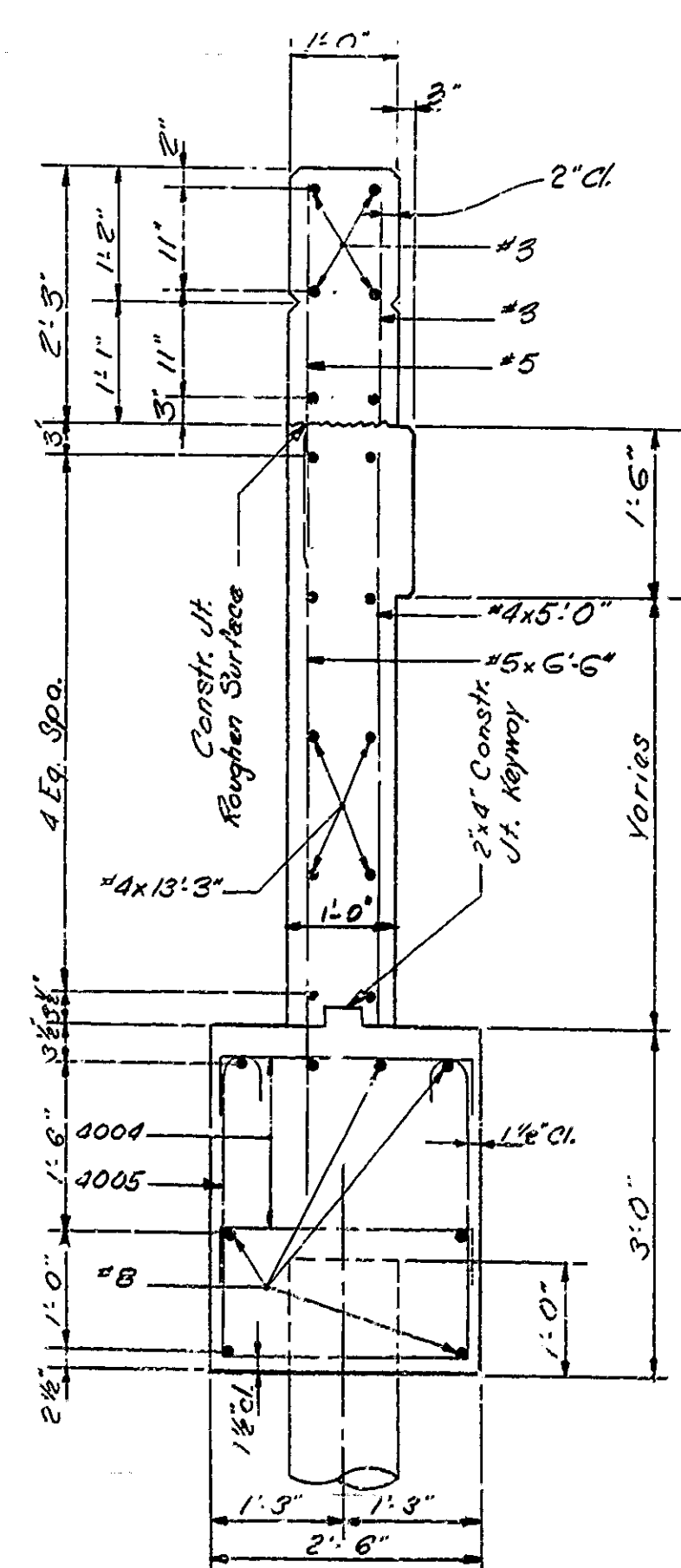
* See Drwg. No. C9 for Bending Diagrams
and Bill of Reinforcing Steel.



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

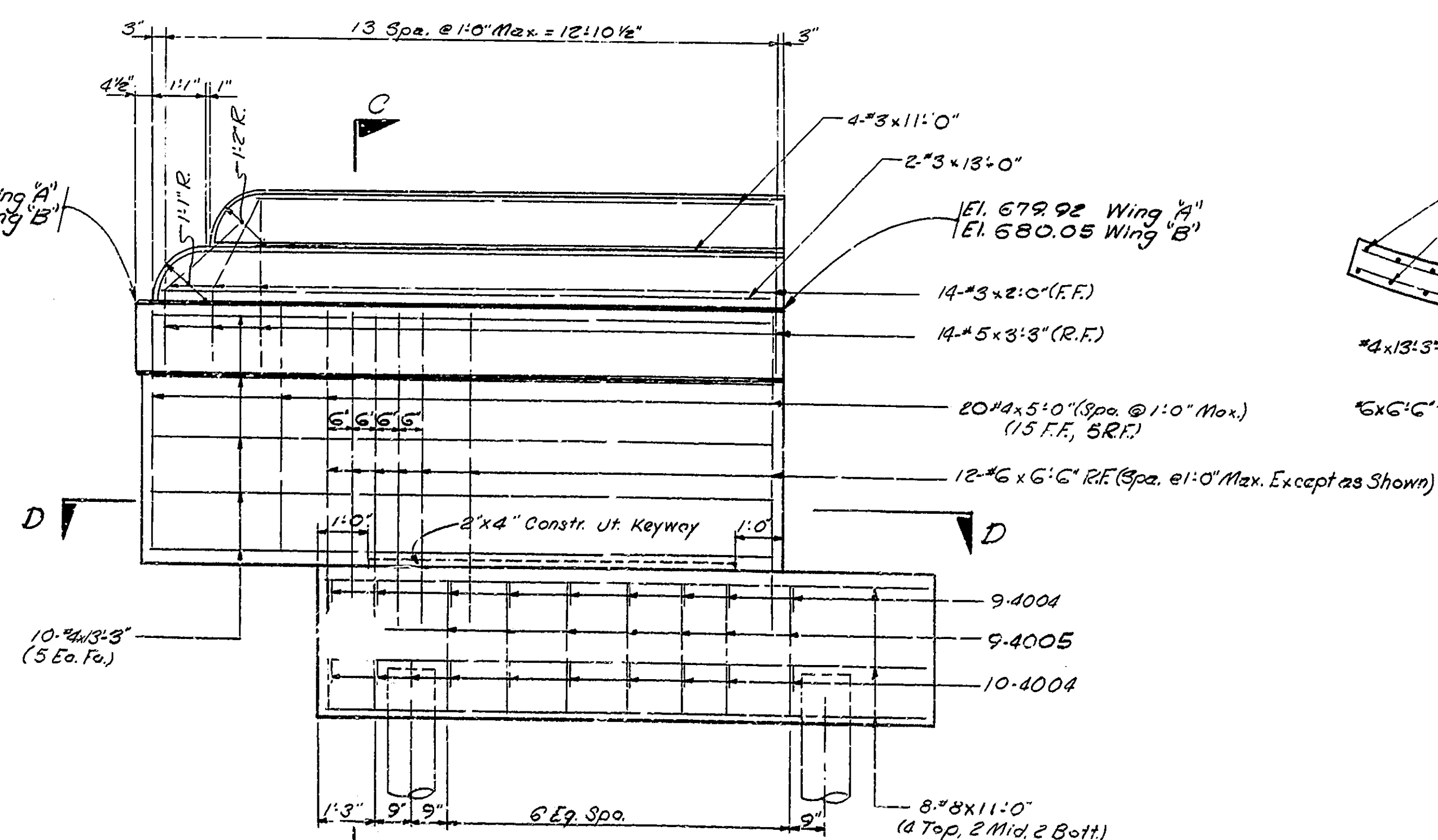


SECTION A-A
Scale: 1/4" = 1'-0"

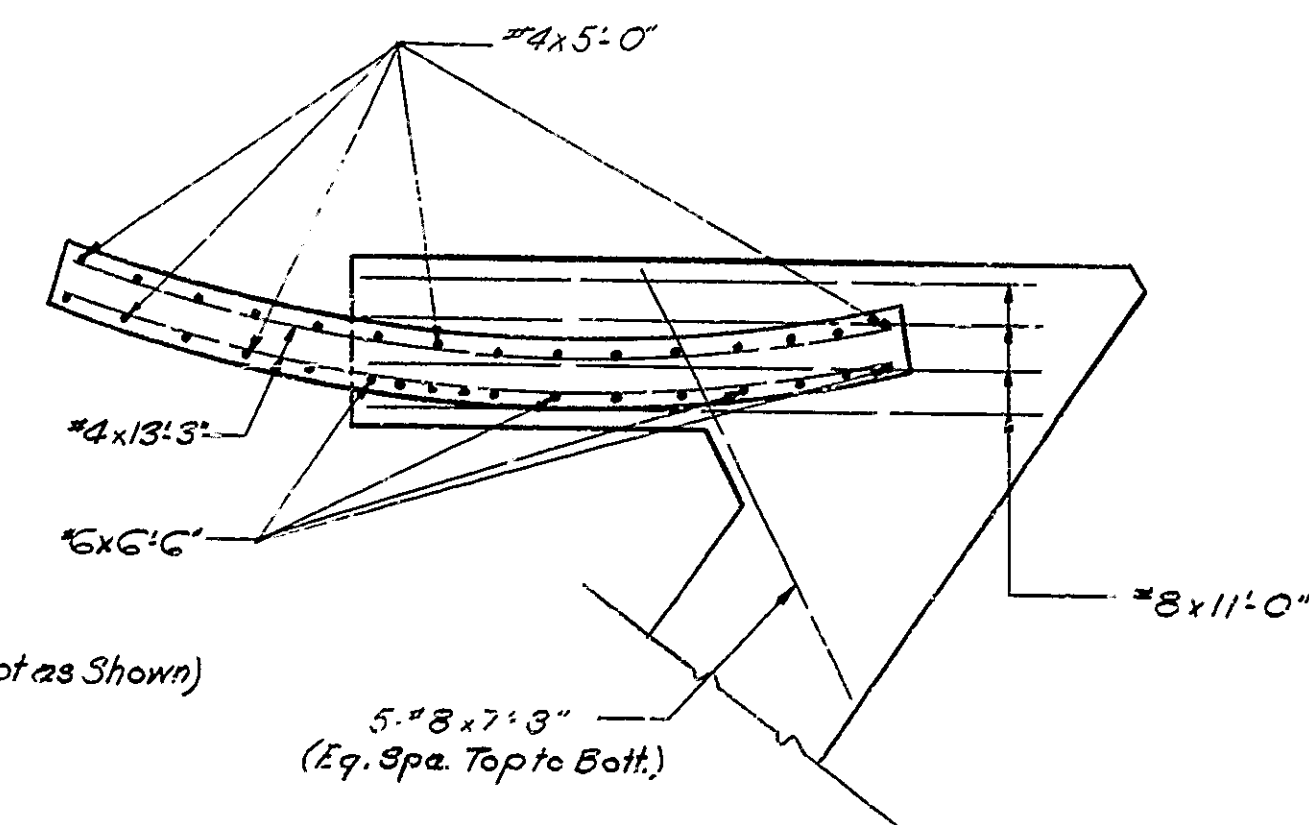


SECTION C-C
Scale: 1/4" = 1'-0"

El. 679.85 Wing "A"
El. 679.98 Wing "B"



TYPICAL WING ELEVATION
Scale: 1/4" = 1'-0"



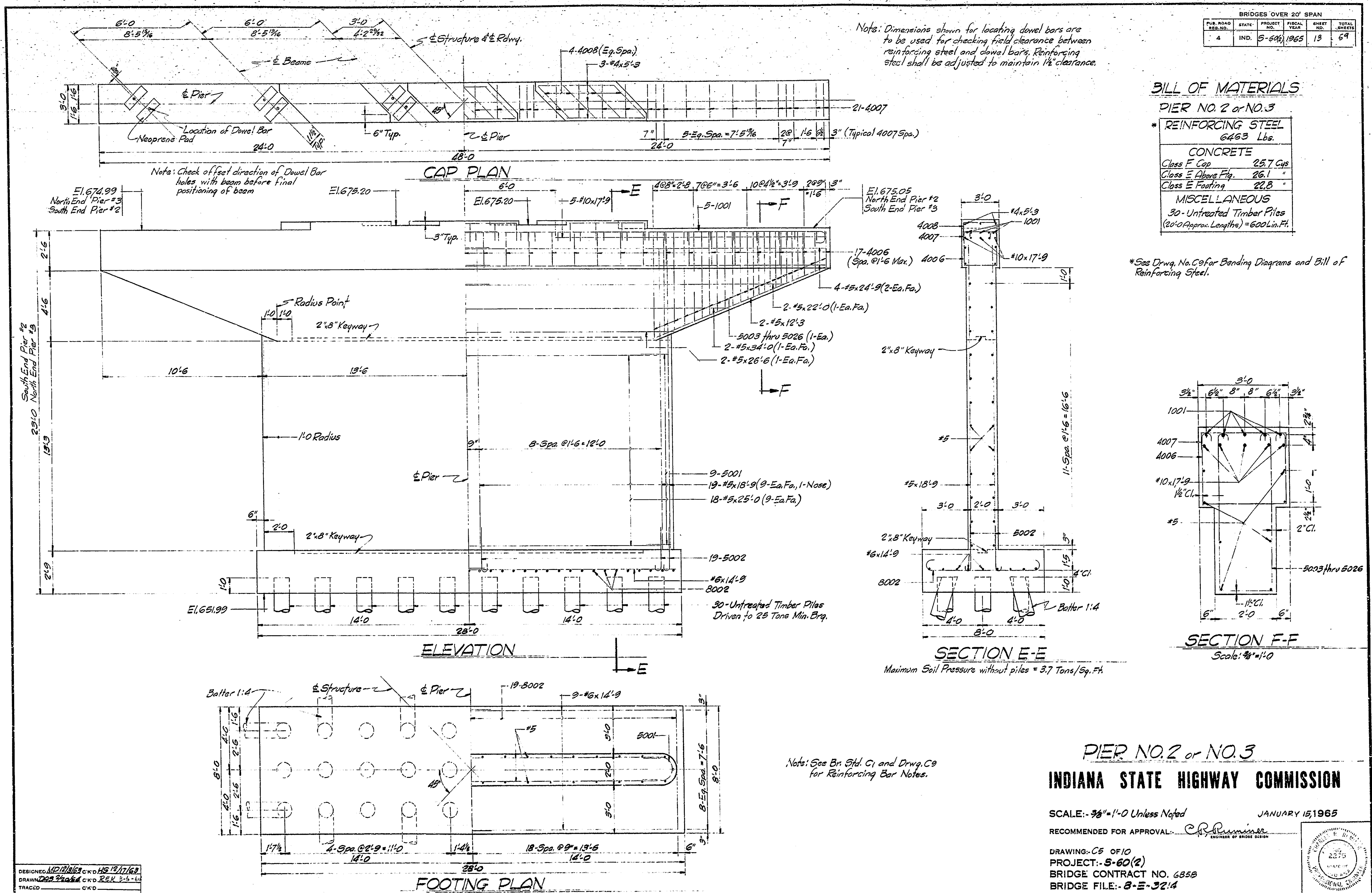
SECTION D-D
Scale: 1/4" = 1'-0"

DETAILS BENT No. 1 or No. 4 INDIANA STATE HIGHWAY COMMISSION

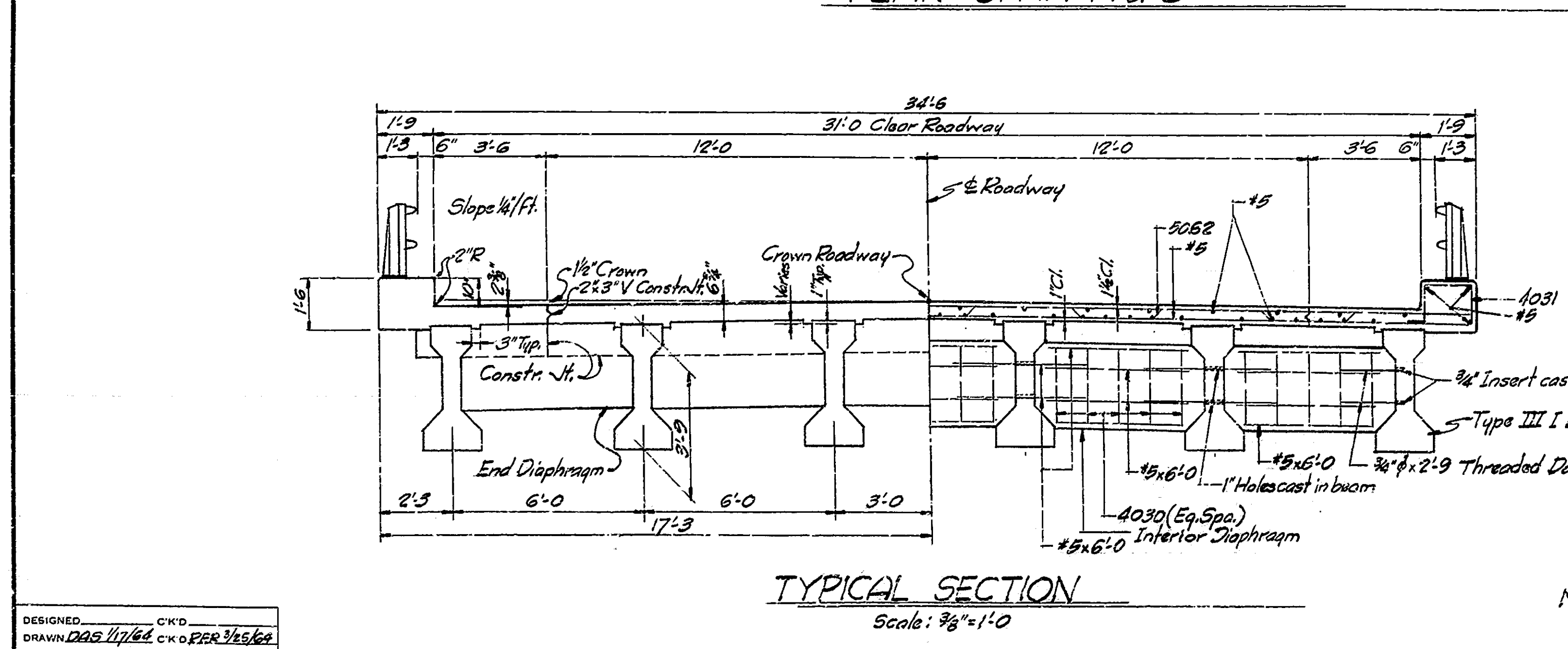
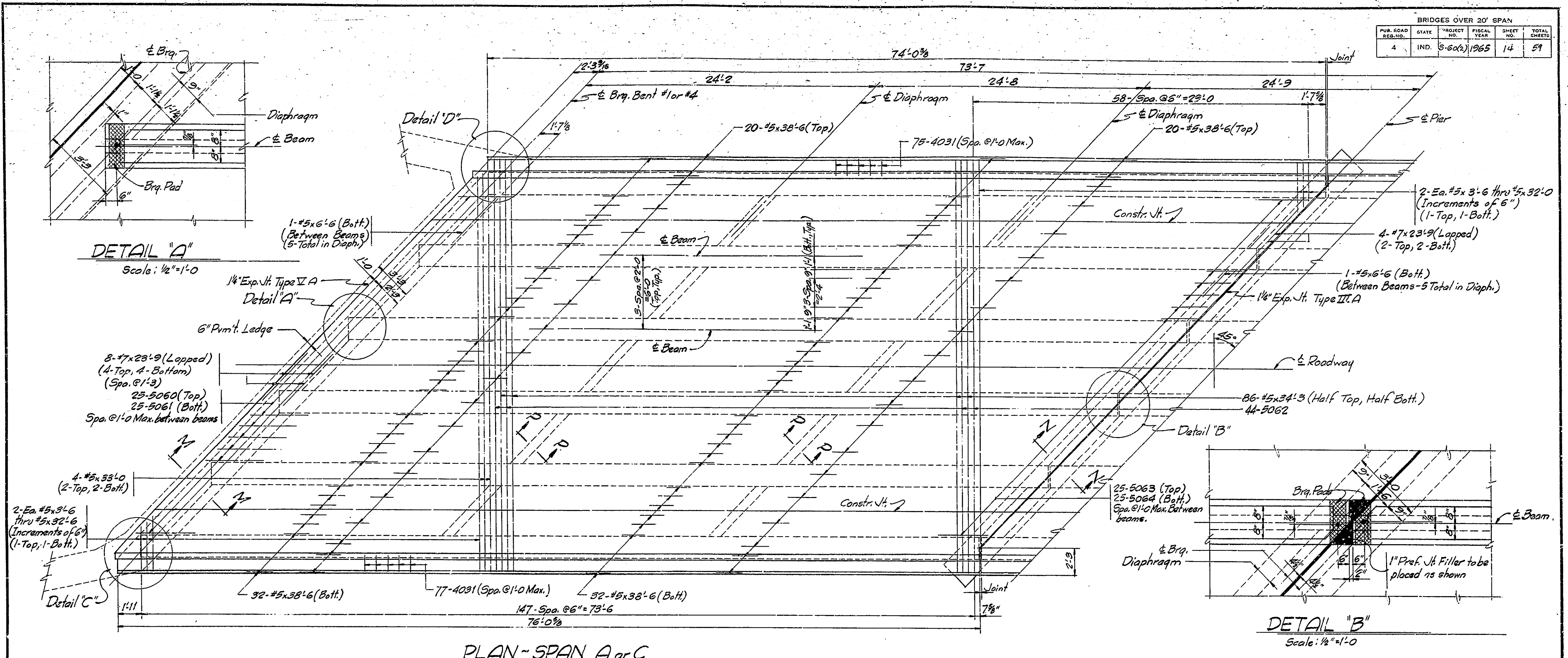
SCALE: As Noted
RECOMMENDED FOR APPROVAL: *C. R. Miller*
JANUARY 15, 1965
DRAWING: C4 OF 10
PROJECT: S-60(2)
BRIDGE CONTRACT NO. 6858
BRIDGE FILE: 8-E-3214

DESIGNED BY: J. W. C. W. D. H. 3-12-1963
DRAWN BY: J. W. C. W. D. H. 3-12-1963
TRACED BY: C. W. D.

NOTE: See Bt. Std. C1 and Drwg. C9
for Reinforcing Bar Notes.



BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
DESIGN		NO.	YEAR	NO.	SHEETS
4	IND.	S-60(2)	1965	14	59



Note: Scribed Data will be furnished upon request of Project Engineer.

DESIGN DATA

Prestressed Beams:
All beams shall be type III as shown on Br. Std. PB 3
See PB 3 for Design Data.
Reinforced Concrete:
Unit Stresses: $f_s = 20,000 \text{ psi}$, $f_c = 1200 \text{ psi}$
Live Load: HS 20-44 with impact and distribution of loads in accordance with 1961 AASHTO specifications.
Dead Load: Increased 35% per sq. ft. of roadway for future wearing surface. Slab designed with $\frac{1}{2}$ " wearing surface.

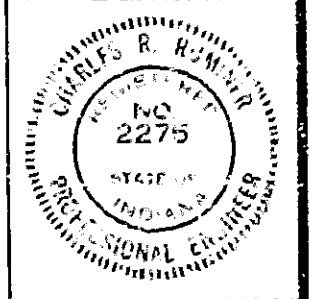
SUPERSTRUCTURE DETAILS

INDIANA STATE HIGHWAY COMMISSION

SCALE: $\frac{1}{4}'' = 1'-0''$ Unless Noted JANUARY 15, 1965

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

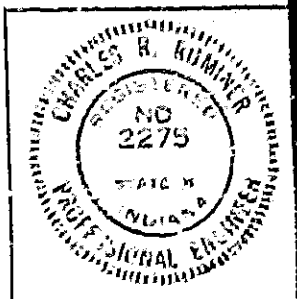
DRAWING: C6 OF 10
PROJECT: S-60(2)
BRIDGE CONTRACT NO. 6858
BRIDGE FILE: B-E-3214

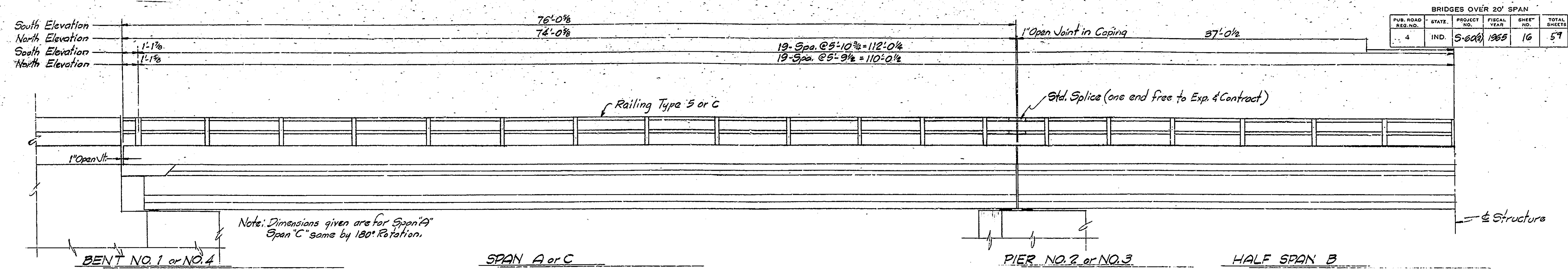


DESIGNED: CKD
DRAWN: DAS 1/17/64 CKD PER 3/5/64
TRACED: CKD

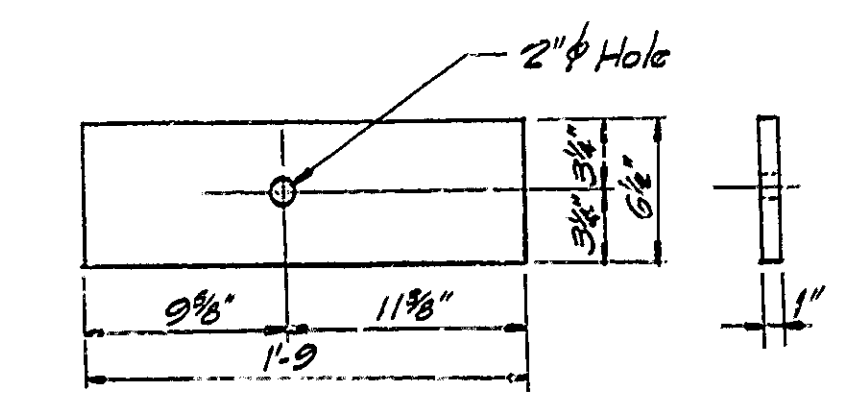
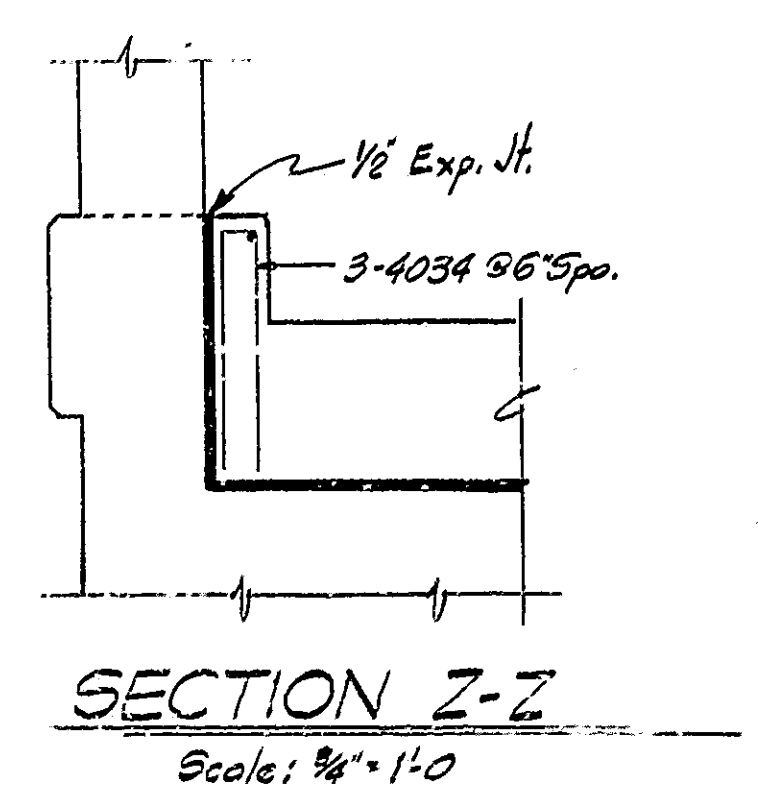
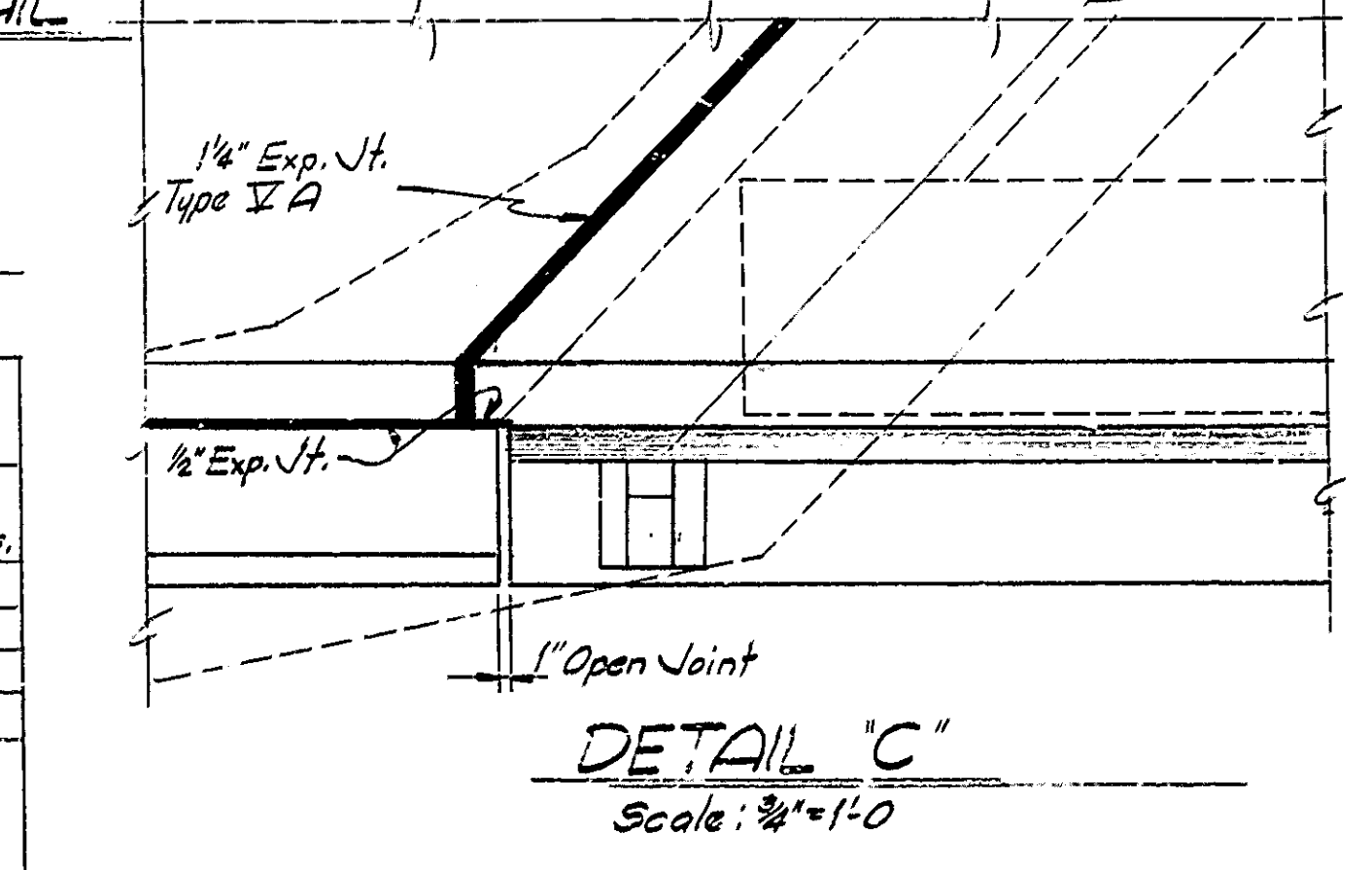
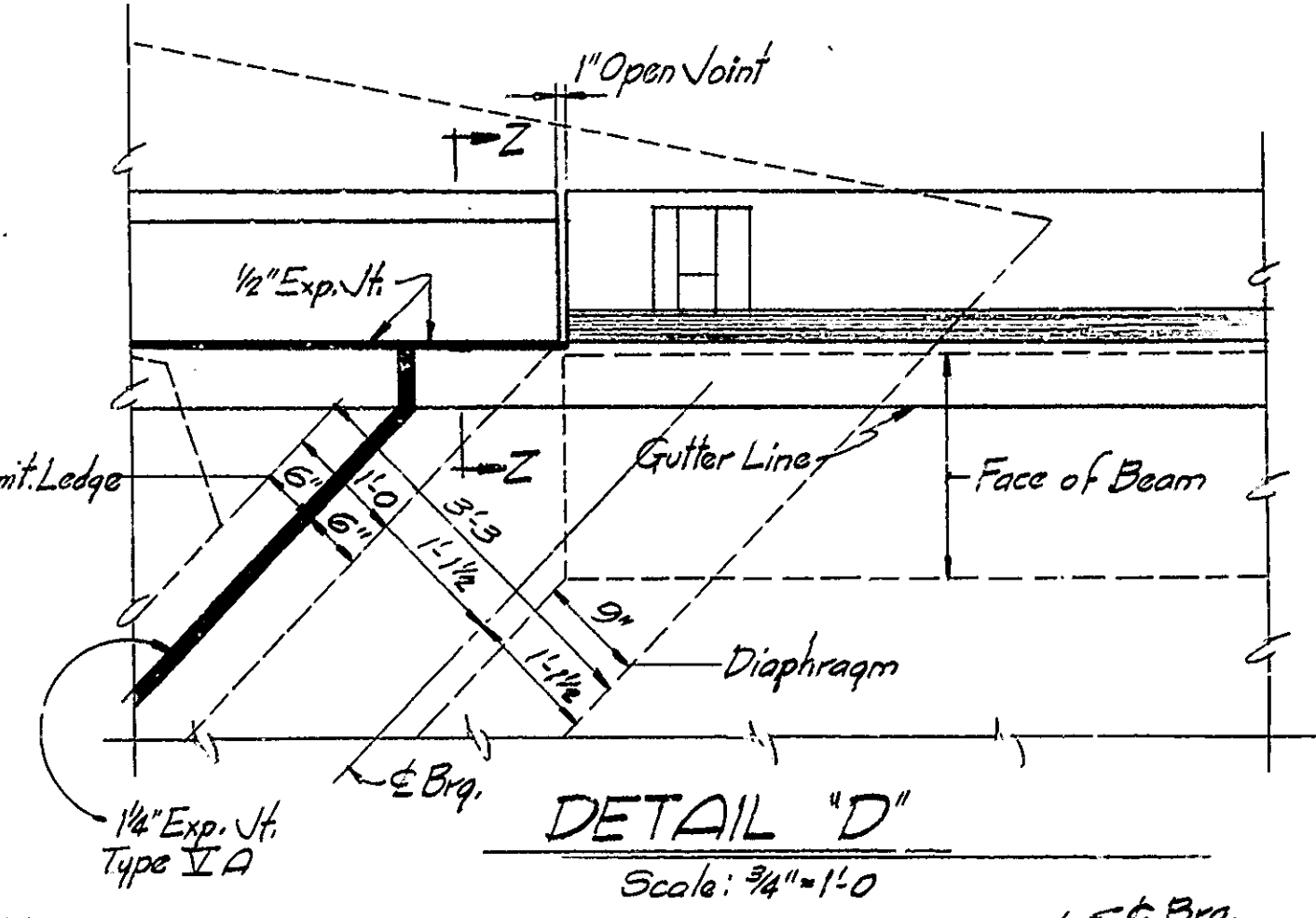
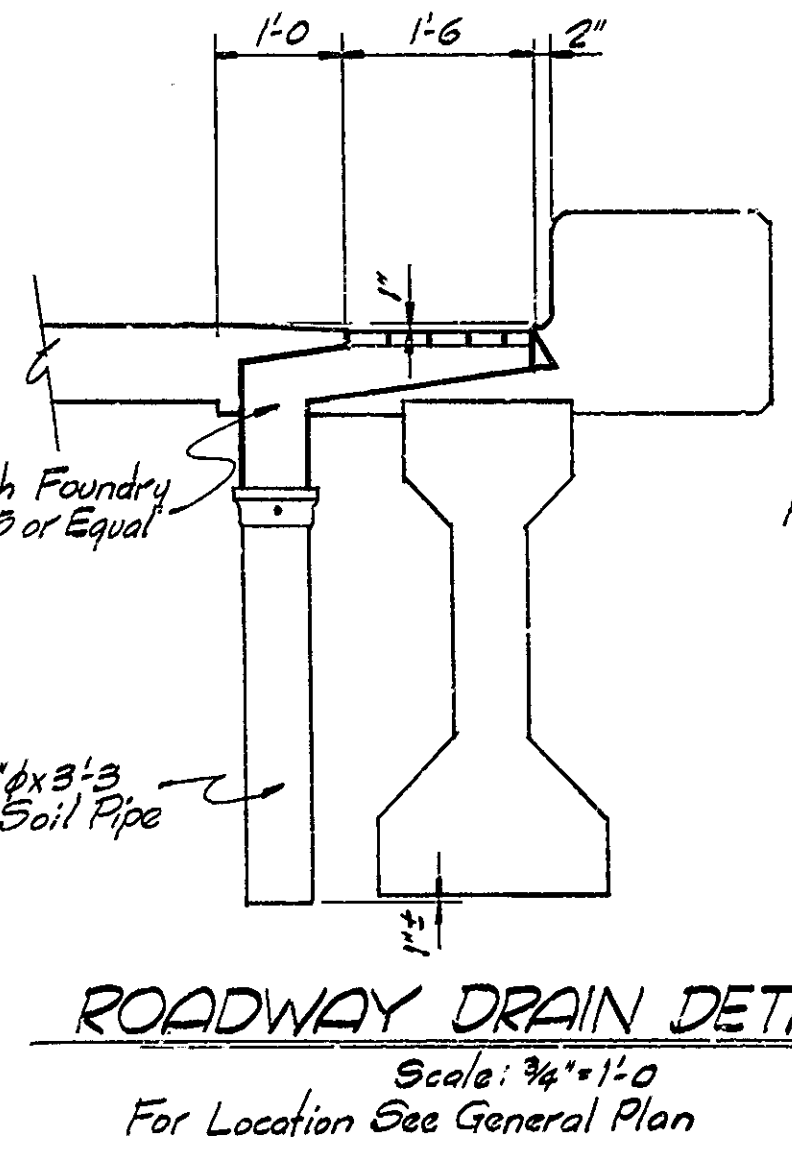
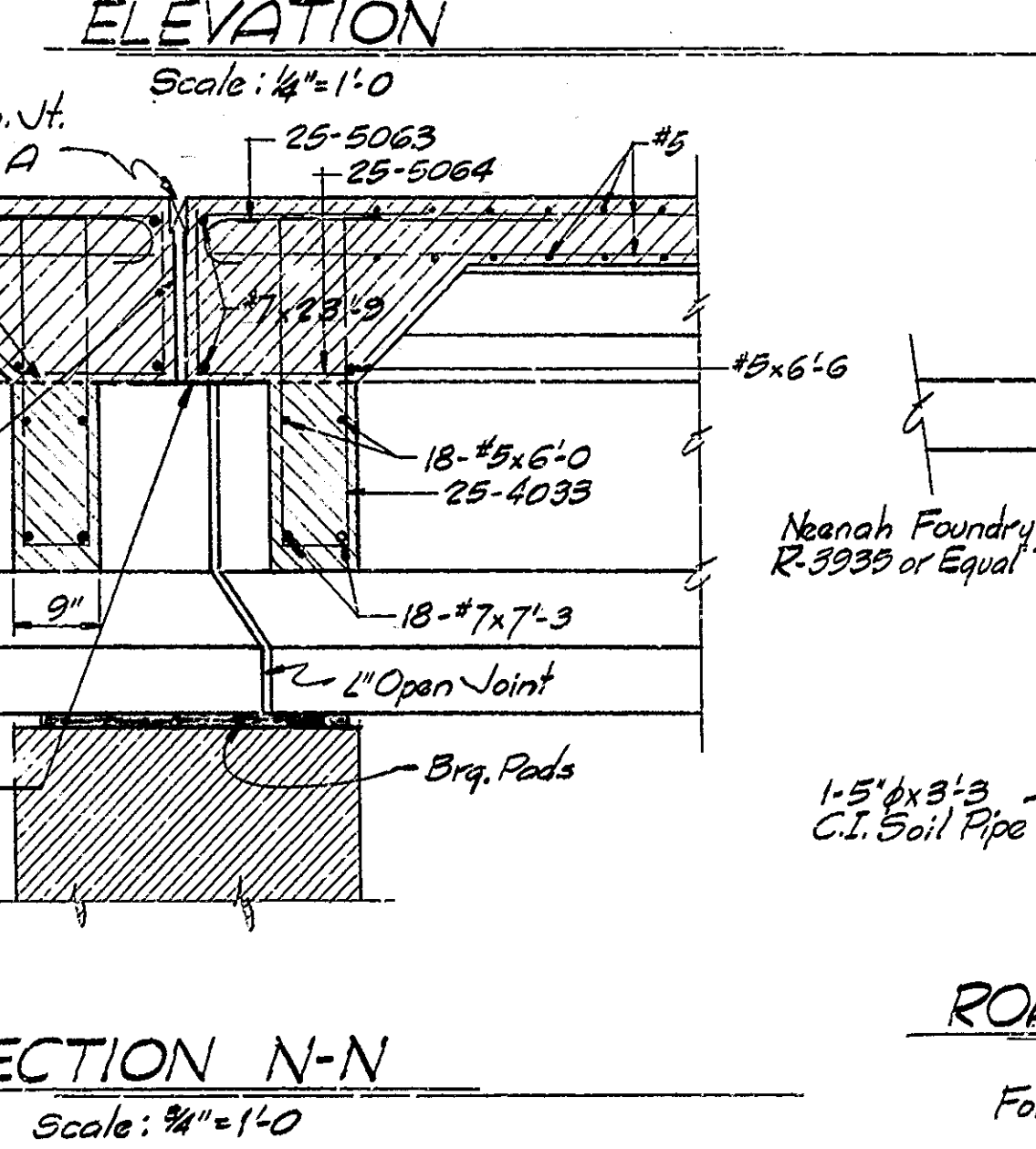
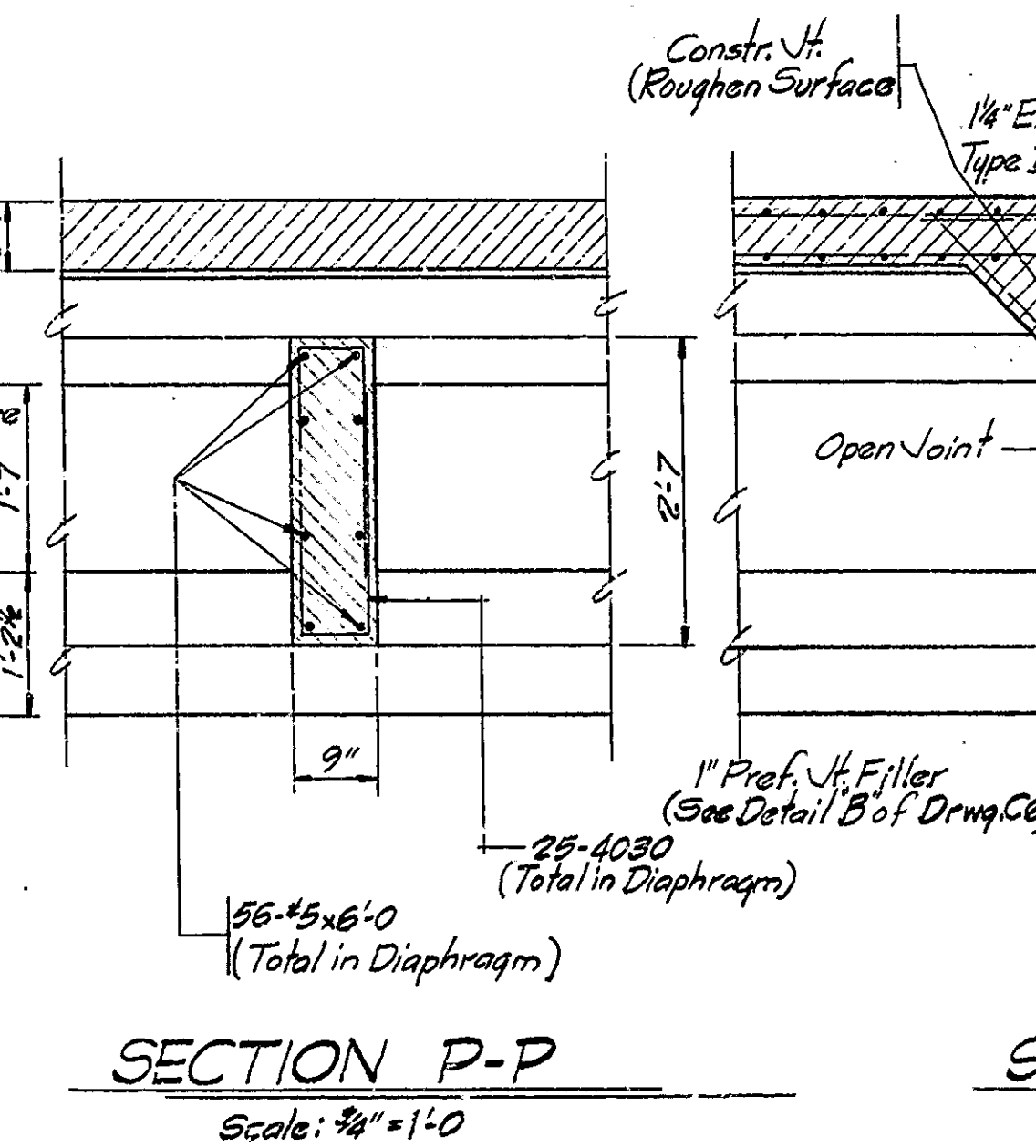
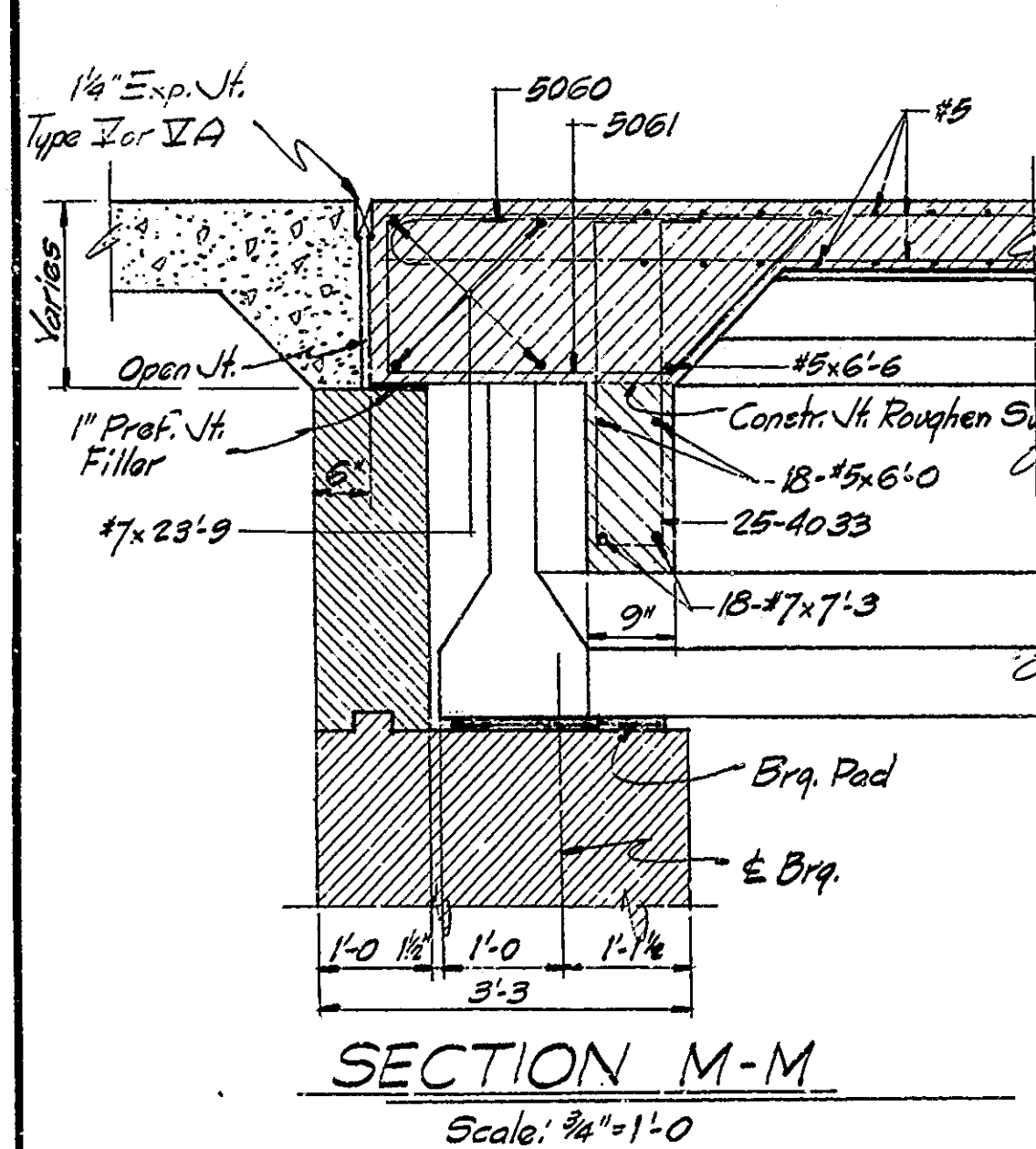
Note: See Br. Std. C1 and Drwg. C9 for Reinforcing Bar Notes.

DESIGNED _____ C'K'D _____
DRAWN DJS 1/22/64 C'K'D RER 3-22-64
TRACED _____ C'K'D _____





BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND.	S-600	1965	16	59



Note: Pad shall be made of 70 Durometer Hardness Neoprene.

BILL OF MATERIALS	
SPAN 'A' (SPAN 'C' SAME)	SPAN 'B'
* REINFORCING STEEL 16,756 Lbs. CONCRETE Class F Outer Pour (2@13.8) = 27.6 Cys. Class F Inner Pour 44.8 " Class F Diaphragms 8.7 " Total Class F Conc. 81.1 " MISCELLANEOUS Prest. I Beams, Type III - 444 Lin. Ft. Railing Type 5 or C 130.0 Lin. Ft. 1/4" Exp. Jt. Armor Type IA 49.5 Lin. Ft. 1/4" Exp. Jt. Type IA 47.3 Lin. Ft. 2" Rdwy. Drains @ 250' = 500 # 2-5' x 3'-3" C.I. Soil Pipe = 108 # Total Cast Iron = 608 #	* REINFORCING STEEL 16,187 Lbs. CONCRETE Class F Outer Pour (2@13.8) = 27.0 Cys. Class F Inner Pour 42.4 " Class F Diaphragms 8.7 " Total Class F Conc. 78.1 " MISCELLANEOUS Prest. I Beams, Type III 444 Lin. Ft. Railing Type 5 or C 143.2 Lin. Ft. 1/4" Exp. Jt. Armor Type IA 87 Lin. Ft. 1/4" Exp. Jt. Type IA 98 Lin. Ft. 4" Rdwy. Drains @ 250' = 1000 # 4-5' x 3'-3" C.I. Soil Pipe = 216 # Total Cast Iron = 1216 #

Note: The cost of neoprene bearing pads, 3/4" x 1'-6" threaded dowels, 3/4" x 1'-6" dowels, cement grout and joint filler to be included in Lump Sum bid of Prestressed Concrete I Beams.
 * See Drwg. C10 for Bending Diagrams and Bill of Reinforcing Steel.
 * 5" C.I. Soil Pipe @ 15#/foot + 5# per Hub

Note: See Br. Std. C1 and Drwg. C10 for Reinforcing Bar Notes.

SUPERSTRUCTURE DETAILS

INDIANA STATE HIGHWAY COMMISSION

SCALE: As Noted

JANUARY 15, 1965

RECOMMENDED FOR APPROVAL: *C.R. Rummel*
ENGINEER OF BRIDGE SECTION

DRAWING: C8 OF 10
PROJECT: S-60(2)
BRIDGE CONTRACT NO. 6858
BRIDGE FILE: S-E-3814

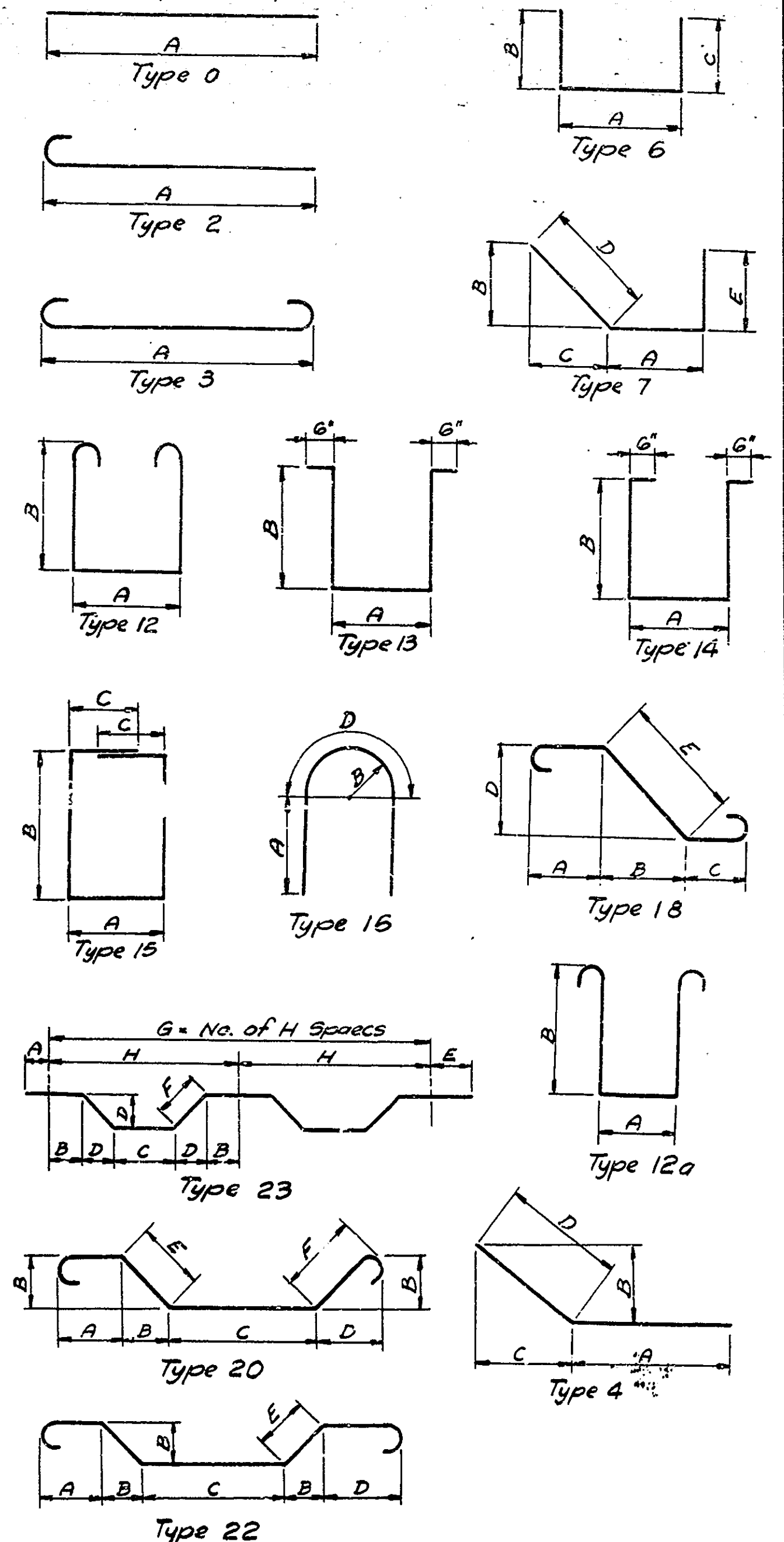
DESIGNED	C.K.D.
DRAWN	1/25/64 C.K.D. ECE 3/5/64
TRACED	C.K.D.

BILLS OF REINFORCING STEEL

BRIDGES OVER 20' SPAN					
PUB. ROAD NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S-60(2)	1965	17	59

SIZE	MARK	NO. OF BARS	TYPE	HOOK	A Ft. Inches	B Ft. Inches	C Ft. Inches	D Ft. Inches	E Ft. Inches	F Ft. Inches	G Ft. Inches	Length Ft. In.	Weight Lbs.
BENT NO. 1 OR NO. 4													
8	001	12	2		25 03.00							26 04	
8		24			25 03.00							25 03	
8		10			11 00.00							11 00	
8					7 03.00							7 03	
C		24			6 06.00							TOTAL NO. 8	3125
5		28			3 06.00							TOTAL NO. 6	939
												TOTAL NO. 5	102
4	001	45	6		9.00	3 09.00	3 09.00					8 C3	
4	002	91	6		3 00.00	6.00	6.00					4 00	
4	003	34	12		3 00.00	2 09.00	6.00					9 06	
4	004	38	6		2 03.00	5.00	6.00					3 03	
4	005	18	12		2 03.00	2 09.00						6 09	
4		20			13 03.00							13 03	
4		40			5 00.00							5 00	
												TOTAL NO. 4	1203
3		4			13 00.00							13 00	
3		8			11 00.00							11 00	
3		28			2 00.00							2 00	
												TOTAL NO. 3	74
												TOTAL STEEL	5443

SIZE	MARK	NO. OF BARS	TYPE	HOOK	A Ft. Inches	B Ft. Inches	C Ft. Inches	D Ft. Inches	E Ft. Inches	F Ft. Inches	G Ft. Inches	Length Ft. In.	Weight Lbs.
PIER NO. 1 OR NO. 3													
10	01	10	2		25 06.00							26 11	
10		10			17 09.00							17 09	
												TOTAL NO. 10	1922
8	002	37	3		7 06.00							9 08	
												TOTAL NO. 8	954
6		18			14 09.00							14 09	
												TOTAL NO. 6	398
5	001	18	16		1 08.00	9.38		2 05.50				5 10	
5	002	30	2		3 01.00							3 08	
5	003	2	12		1 08.00	2 04.25						7 07	
5	004	2	12		1 08.00	2 07.75						8 02	
5	005	2	12		1 08.00	2 11.25						9 09	
5	006	2	12		1 08.00	3 01.00						9 00	
5	007	2	12		1 08.00	3 02.75						9 04	
5	008	2	12		1 08.00	3 04.50						9 07	
5	009	2	12		1 08.00	3 06.25						9 11	
5	010	2	12		1 08.00	3 08.00						10 02	
5	011	2	12		1 08.00	3 09.75						10 06	
5	012	2	12		1 08.00	3 11.50						10 09	
5	013	2	12		1 08.00	4 01.25						11 01	
5	014	2	12		1 08.00	4 03.00						11 04	
5	015	2	12		1 08.00	4 04.75						11 08	
5	016	2	12		1 08.00	4 07.25						12 01	
5	017	2	12		1 08.00	4 09.50						12 05	
5	018	2	12		1 08.00	4 11.75						12 10	
5	019	2	12		1 08.00	5 02.25						13 03	
5	020	2	12		1 08.00	5 04.50						13 07	
5	021	2	12		1 08.00	5 07.00						14 00	
5	022	2	12		1 08.00	5 09.25						14 05	
5	023	2	12		1 08.00	6 00.25						14 11	
5	024	2	12		1 08.00	6 03.25						15 02	
5	025	2	12		1 08.00	6 06.50						15 11	
5	026	2	12		1 08.00	6 09.00						16 04	
5	027	2	13		1 00.00	2 04.75						2 05	
5	028	2	13		1 00.00	2 07.75						2 08	
5	029	2	13		1 00.00	2 11.35						7 11	
5	030	2	13		1 00.00	3 01.00						8 02	
5	031	2	13		1 00.00	3 02.75						8 04	
5	032	2	13		1 00.00	3 04.50						8 09	
5	033	2	13		1 00.00	3 06.25						9 01	
5	034	2	13		1 00.00	3 08.00						9 04	
5	035	2	13		1 00.00	3 09.75						9 08	
5	036	2	13		1 00.00	3 11.50						9 11	
5	037	2	13		1 00.00	4 01.25						10 02	
5	038	2	13		1 00.00	4 03.00						10 06	
5	039	2	13		1 00.00	4 04.75						11 03	
5	040	2	13		1 00.00	4 07.25						11 07	
5	041	2	13		1 00.00	4 09.50						12 00	
5	042	2	13		1 00.00	4 11.75						12 05	
5	043	2	13		1 00.00	5 02.25						12 08	
5	044	2	13		1 00.00	5 04.50						12 09	
5	045	2	13		1 00.00	5 07.00						13 03	
5	046	2	13		1 00.00	5 09.25						13 07	
5	047	2	13		1 00.00	6 00.25						14 01	
5	048	2	13		1 00.00	6 03.25						14 07	
5	049	2	13		1 00.00	6 06.50						15 01	
5	050	2	13		1 00.00	6 09.00						15 06	
5		2			34 00.00							34 00	
5		2			26 06.00							26 06	
5		18			25 00.00							25 00	
5		8			24 09.00							24 09	
5		4			22 00.00							22 00	
5		38			18 09.00							18 09	
5		4			12 03.00							12 03	
												TOTAL NO. 5	2833
4	006	33	12		2 09.00	2 03.00						8 08	
4	007	42	6		2 09.00	6.00						4 09	
4	008	12	6		2 09.00	1 00.00	1 00.00					5 03	
		9			5 03.00							TOTAL NO. 4	356
												TOTAL STEEL	6463

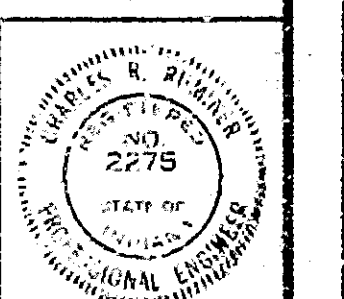


BILLS OF REINFORCING STEEL BENDING DIAGRAM INDIANA STATE HIGHWAY COMMISSION

SCALE: - JANUARY 15, 1965

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

DRAWING: C9 OF 10
PROJECT: S-60(2)
BRIDGE CONTRACT NO. 6858
BRIDGE FILE: B-E-3214



Listed by D.A.S.
Checked by J.L.D.

Note: Where the Bar Type shows a hook and the Hook Col. is blank use a std. hook.
SP in the Hook Col. indicates a special hook. See Br. Std. C1 for hook dimensions.

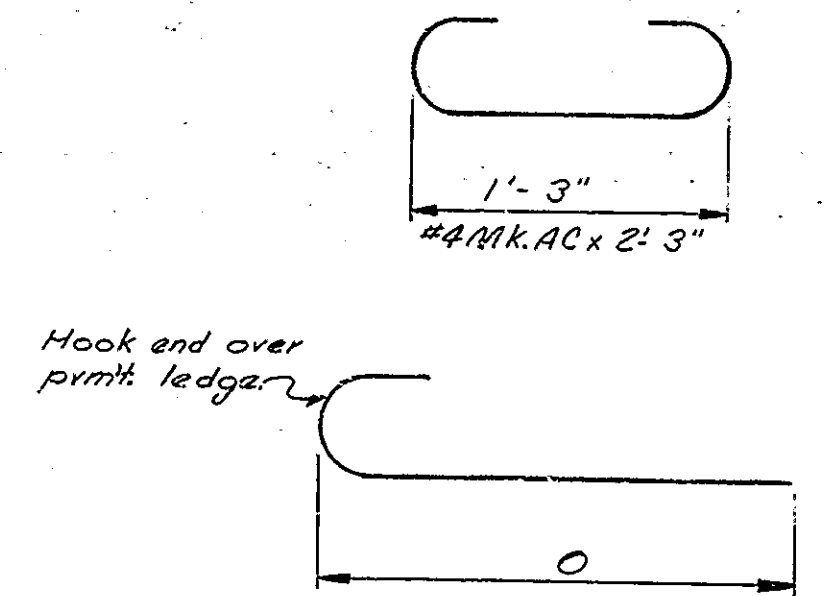
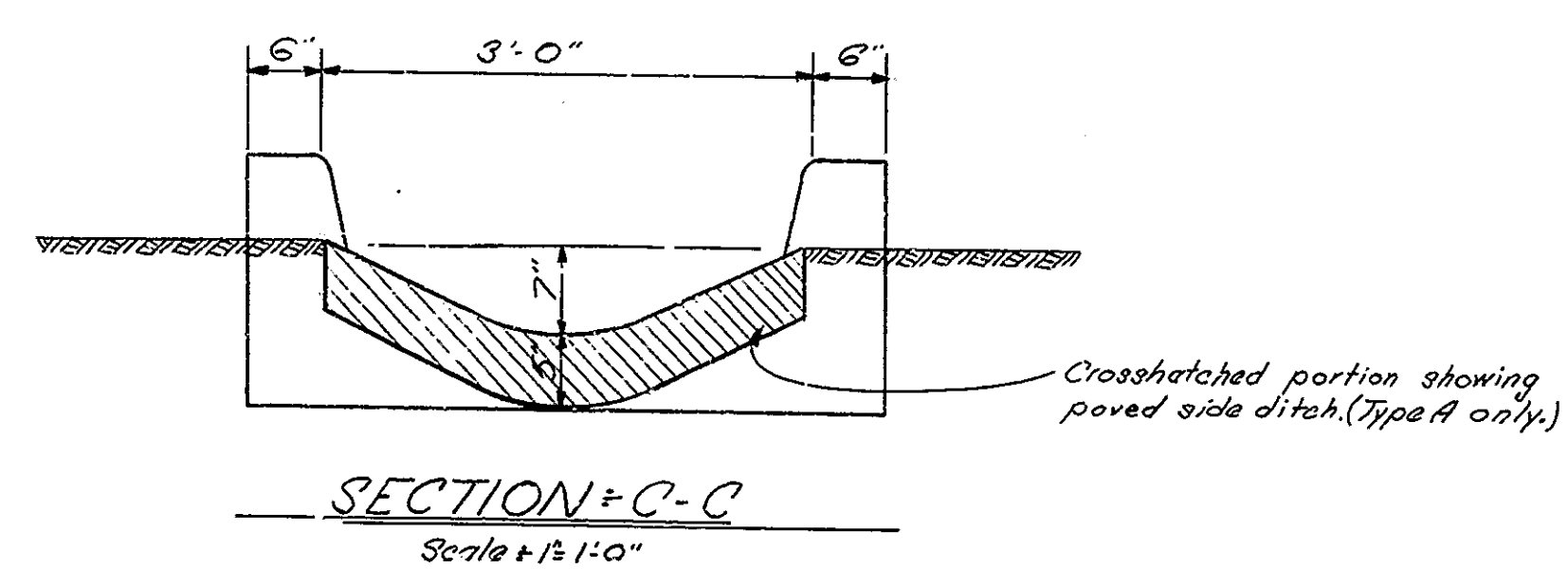
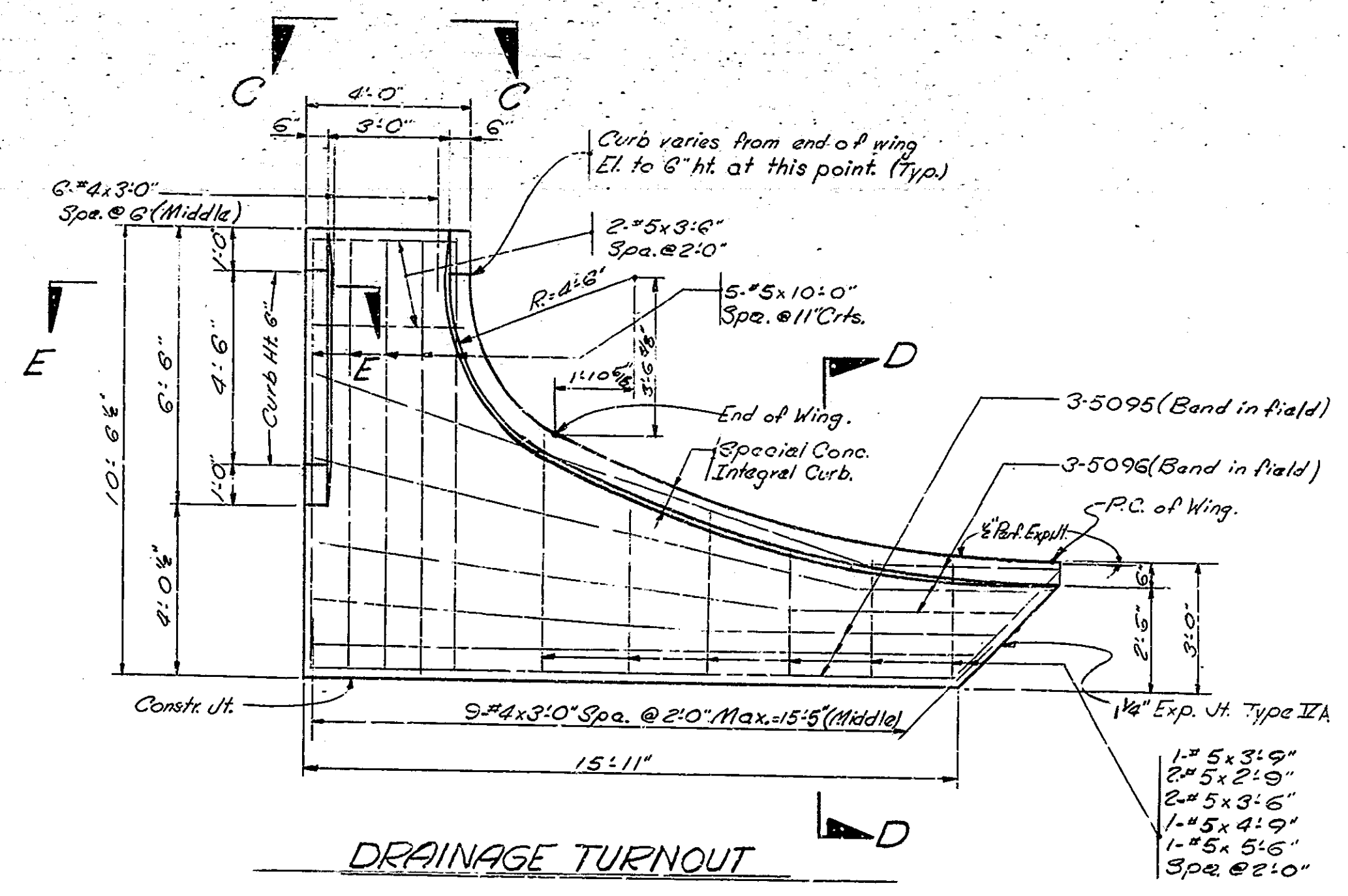
Bar Mark: No. 10 & No. 11 Bar sizes will have two numbers for Mark. Example 1023 or 1142
Bar Sizes No. 3 to No. 9 will have three numbers for Mark. Example 8003 or 7021

BILLS OF REINFORCING STEEL

SIZE	MARK	NO. OF BARS	TYPE	HOOK	A	B	C	D	E	F	G	Length	Weight
					Ft. Inches	Ft. Inches	Ft. Inches	Ft. Inches	Ft. Inches	Ft. Inches		Ft. In.	Lbs.
SUPERSTRUCTURE SPAN A OR C													
7		12			23 09.30							23 09	
7		36			7 03.00							7 03	
TOTAL NO. 7													1116
5	060	25	2		4 00.00							4 07	
5	061	25	7		3 06.00	1 03.00	1 03.00	1 09.25	1 03.00			6 07	
5	062	44	23		9.30	1 05.75	2 04.00	4.25	9.00			33 00	
5	063	25	2		3 00.00					6.00	5	3 07	
5	064	25	7		1 08.50	1 03.00	1 03.00	1 09.25	1 03.00			3 07	
5		104			38 06.00							38 06	
5		34			24 03.00							24 03	
5		4			33 00.00							34 03	
5		2			32 06.00							33 00	
5		4			32 00.00							32 06	
5		4			31 06.00							32 00	
5		4			31 00.00							31 06	
5		4			30 06.00							31 00	
5		4			30 00.00							30 06	
5		4			29 06.00							30 00	
5		4			29 00.00							29 06	
5		4			28 06.00							28 00	
5		4			28 00.00							27 06	
5		4			27 06.00							27 00	
5		4			27 00.00							26 06	
5		4			26 06.00							26 00	
5		4			26 00.00							25 06	
5		4			25 06.00							25 00	
5		4			25 00.00							24 06	
5		4			24 06.00							24 00	
5		4			24 00.00							23 06	
5		4			23 06.00							23 00	
5		4			23 00.00							22 06	
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5		4			15 06.00							15 00	
5		4			15 00.00							14 06	
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5		4			10 06.00							10 00	
5		4			10 00.00							9 06	
5		4			9 06.00							9 00	
5		4			9 00.00							8 06	
5		4			8 06.00							8 00	
5		4			8 00.00							7 06	
5		4			7 06.00							7 00	
5		4			7 00.00							6 06	
5		4			6 06.00							6 00	
5		4			6 00.00							5 06	
5		4			5 06.00							5 00	
5		4			5 00.00							4 06	
5		4			4 06.00							4 00	
5		4			4 00.00							3 06	
5		4			3 06.00							2 06	
TOTAL NO. 5													14717
4	030	50	15		2 03.00	5.00	1 10.00					6 09	
4	031	152	6		1 06.00	1 03.00	1 03.00	06.00				4 06	
TOTAL NO. 4													923
TOTAL NO. 4													923
TOTAL STEEL													16,756

SIZE	MARK	NO. OF BARS	TYPE	HOOK	A Ft. Inches	B Ft. Inches	C Ft. Inches	D Ft. Inches	E Ft. Inches	F Ft. Inches	G	Length Ft. In.	Weight Lbs.
SUPERSTRUCTURE SPAN B													
7		8			23 09.00							23 09	
7		36			7 03.00							7 03	
TOTAL NO. 7												92	
5	062	44	23		9.00	1 05.75	2 04.00	4.25	9.00			33 00	
5	063	50	2		3 30.00							3 07	
5	064	104	7		1 08.50	1 03.00	1 03.00	1 09.25	1 03.00	6.00	5	33 00	
5		37			37 09.00							37 02	
5		34			34 03.00							34 03	
5		4			32 00.00							32 00	
5		4			31 06.00							31 06	
5		4			31 00.00							31 00	
5		4			30 06.00							30 06	
5		4			30 00.00							30 00	
5		4			29 06.00							29 06	
5		4			29 00.00							29 00	
5		4			28 06.00							28 06	
5		4			28 00.00							28 00	
5		4			27 06.00							27 06	
5		4			27 00.00							27 00	
5		4			26 06.00							26 06	
5		4			26 00.00							26 00	
5		4			25 06.00							25 06	
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5		4			4 06.00							4 06	
5		4			4 00.00							4 00	
5		4			3 06.00							3 06	
TOTAL NO. 5												14356	
4	030	50	15		2 03.00	5.00	1 10.00					6 09	
4	031	150	6		1 06.00	1 03.00	1 03.00	06.00				4 06	
4	033	50	14		6.00	2 09.00						7 00	
TOTAL NO. 6												910	
TOTAL STEEL												16187	

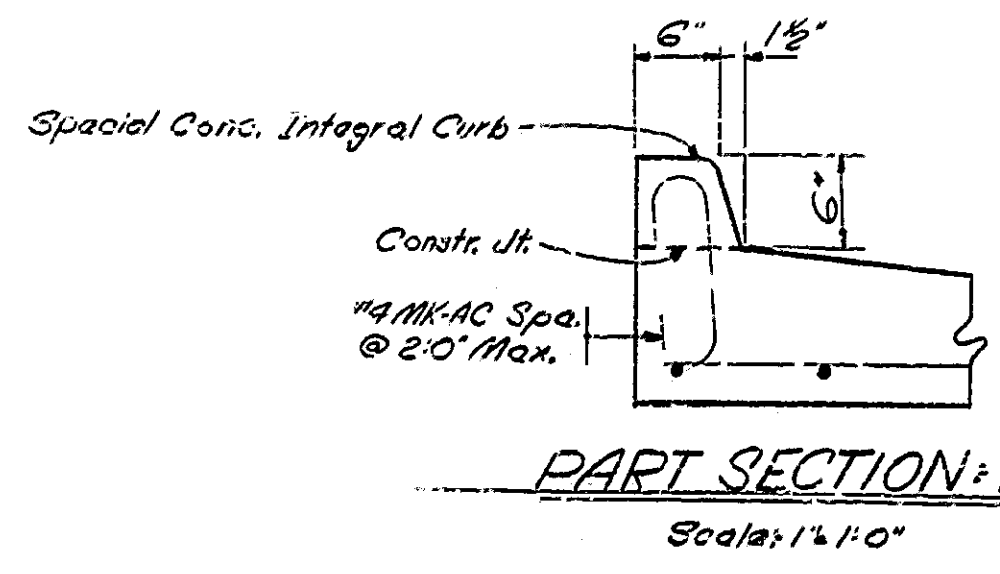
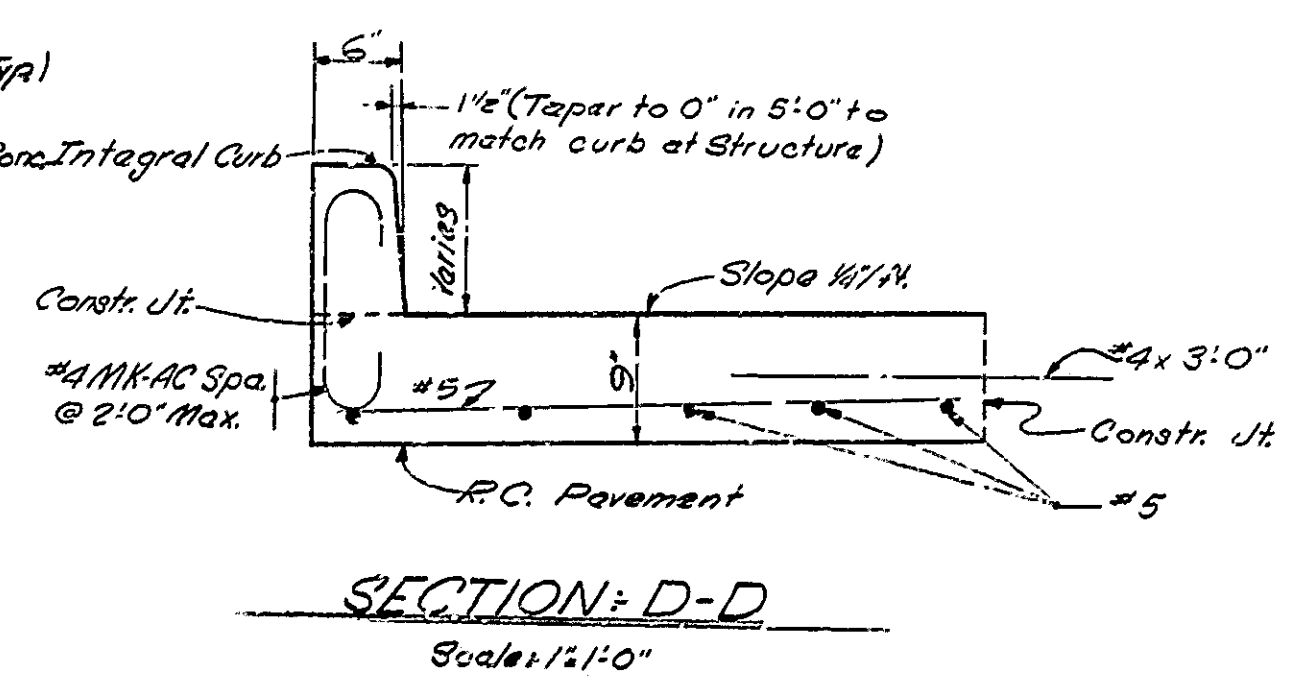
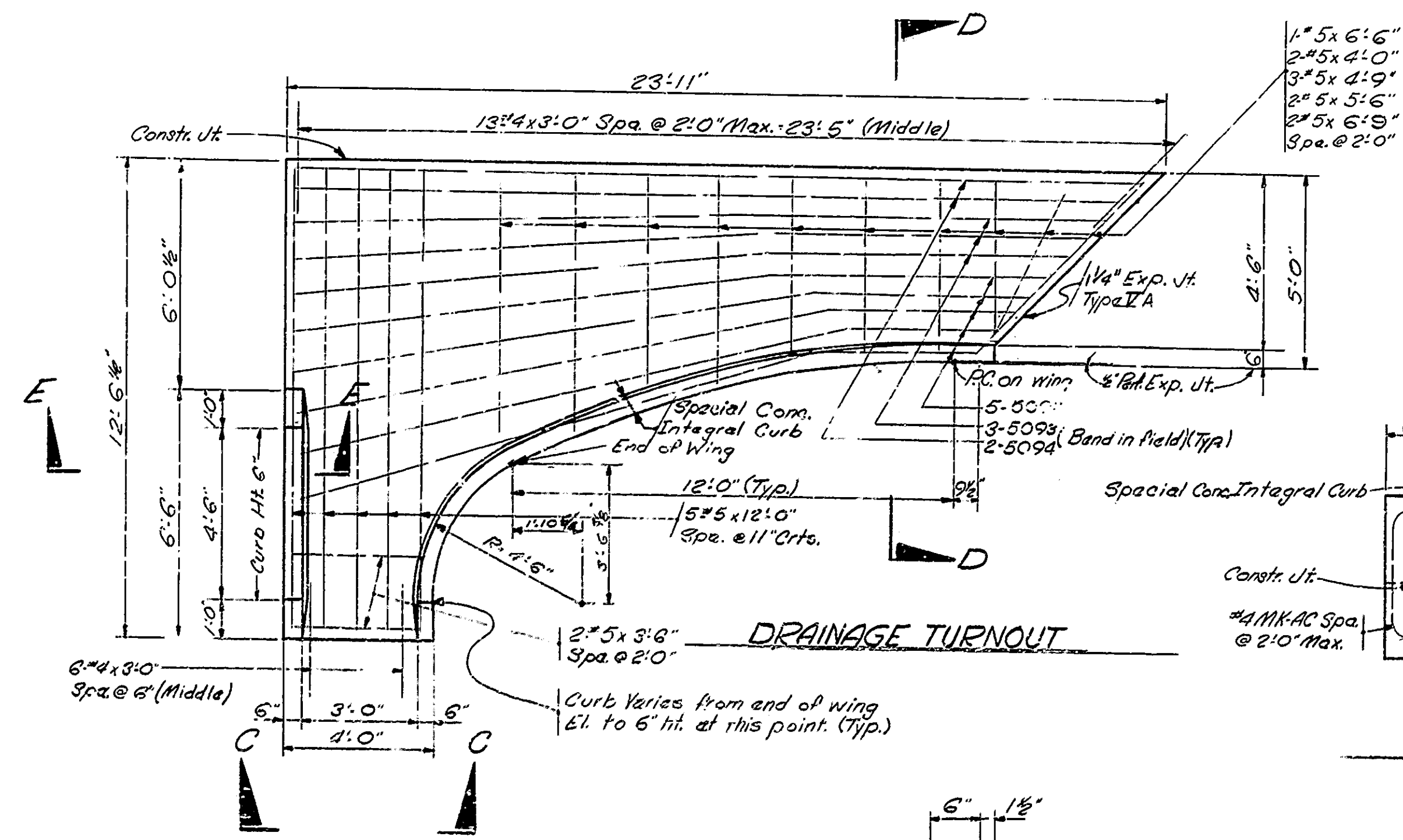
BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S-60(2)	1965	19	59



SIZE MARK	Q	LENGTH
5092	19'-5"	20'-0"
5093	21'-5"	22'-0"
5094	22'-11"	23'-6"
5095	15'-11"	16'-6"
5096	17'-8"	18'-3"

BILL OF MATERIALS FOR FOUR TURNOUTS

REINFORCING STEEL			
SIZE MARK	NO. BARS	LENGTH	WEIGHT
5092	10	20'-0"	
5093	6	22'-0"	
5094	4	23'-6"	
5095	6	16'-6"	
5096	6	18'-3"	
#5	4	2'-9"	
#5	12	3'-6"	
#5	6	5'-6"	
#5	2	6'-6"	
#5	4	4'-0"	
#5	8	4'-9"	
#5	4	6'-9"	
#5	10	10'-0"	
#5	10	12'-0"	
#5	2	3'-9"	
Total #5		100'3"	
#4	68	3'-0"	
Total #4		136'	
TOTAL STEEL		1139'	
MISCELLANEOUS			
R.C. Pavement		50.63 sq. Yds.	
Special Integral Conc. Curb		100.4 Lin. Ft.	



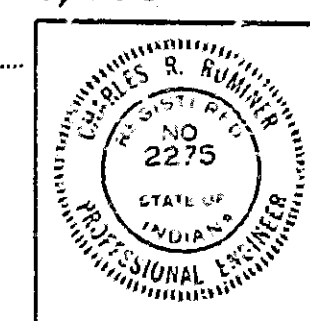
Note: See General Plan for location of Drainage Turnouts. See Bridge Std. Ms for R.C. Bridge Approach Details.

WIDENED PAVEMENT DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: 3/8" = 1'-0" Unless Noted. JANUARY 15, 1965

RECOMMENDED FOR APPROVAL: *C.R. Rummel*

DRAWING: OF
PROJECT: S-60(2)
BRIDGE CONTRACT NO. 6856
BRIDGE FILE: S-E-3214



DESIGNED: C.K.D.
DRAWN: L.L. JONES
TRACED: C.K.D.

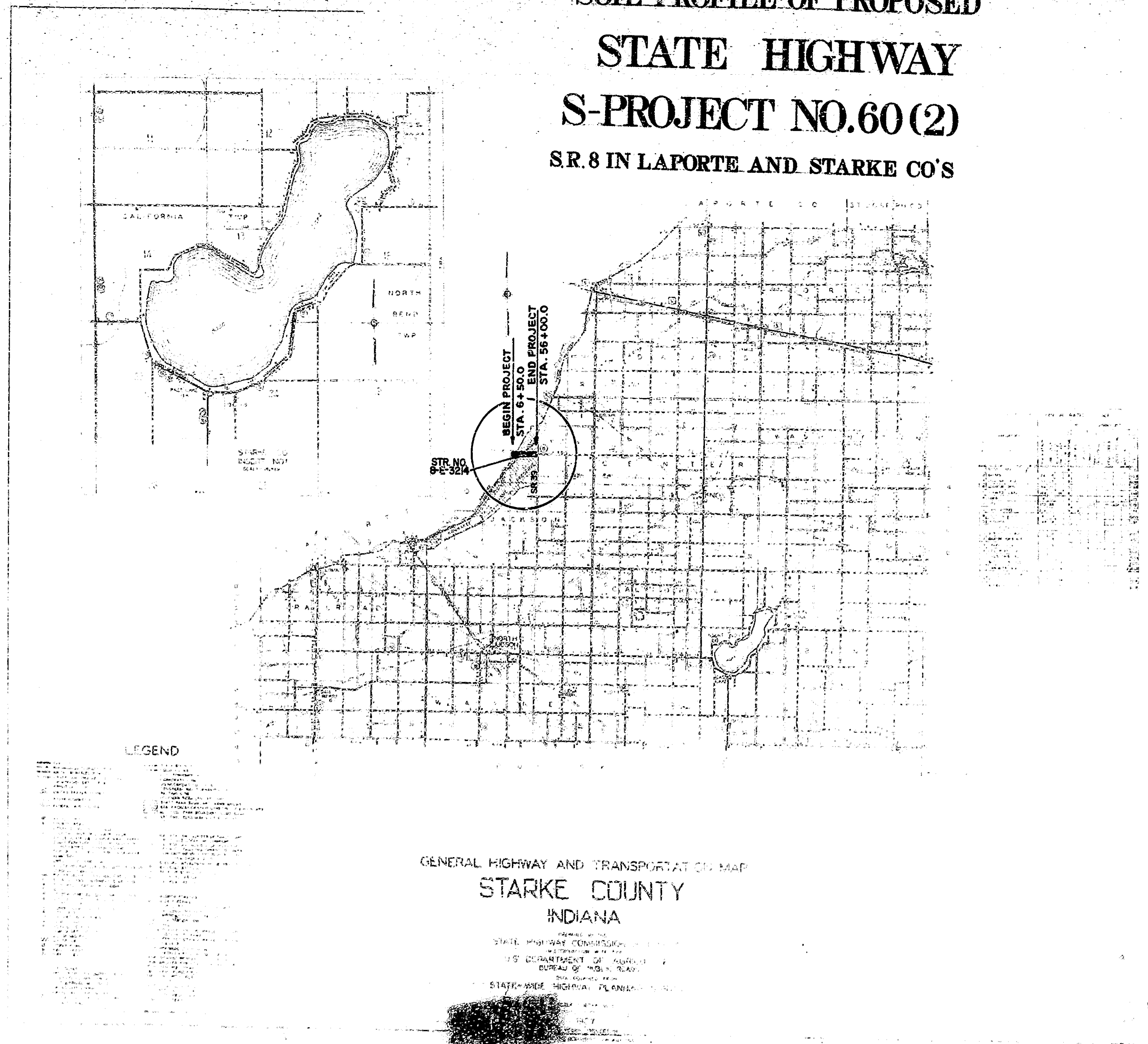
Note: See Br. Std. C and Drwg. C for Reinforcing Bar Notes.

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STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S-60(2)	1964	1	6

SOIL PROFILE OF PROPOSED
STATE HIGHWAY
S-PROJECT NO.60 (2)
S.R.8 IN LAPORTE AND STARKE CO'S



PLANS PREPARED

FOR-
INDIANA STATE HIGHWAY
COMMISSION

BY-
AMERICAN TESTING &
ENGINEERING CORP.
5129 E. 65TH ST.
INDIANAPOLIS, IND
DATE: FEB 1964

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S-60(2)	1964	2	6

SOIL PROFILE

NOTES, LEGEND, SYMBOLS & ABBREVIATIONS

GENERAL NOTES

- The field boring and sampling was started on 1-16-64 and completed on 1-23-64
- Boring offsets were centerline unless otherwise noted.
- The data shown herein is as found at the location of, and date of test borings and is for information only. The Indiana State Highway Commission assumes no responsibility for accuracy of data shown herein.
- Ground elevations are plotted 10' to the inch. Boring depths are plotted 5' to the inch.
- The structure boring logs are included in the report.

LEGEND

	A-1-a		A-6(0-10)
	A-1-b		A-6(11-16)
	A-3		A-7-5
	A-2-4		A-7-6(8-15)
	A-2-5		A-7-6(16-20)
	A-2-6		Limestone
	A-2-7		Sandstone
	A-4(0-4)		Shale
	A-4(5-8)		Topsoil
	A-5		Peat, marly peat or other highly organic material, unstable
QU=Q10		Unconfined compressive strength in Tons/Sq.Ft.	
DD=104		Dry Density in PCF	
LL=50		Indicates Liquid Limit	
PL=30		Indicates Plastic Limit	
		PI=20	

SYMBOLS - PROFILE

	Indicates limits of soil layer or horizon, hatched according to soil type.
	Indicates depth at which test sample was obtained for Classification Test. Number indicates laboratory number of sample.
	Indicates depth at which bag sample was obtained.
	Indicates depth at which moisture sample was obtained. (18% - Natural moisture content).
	Indicates depth at which sample was obtained for loss on Ignition (52%-Loss on Ignition).
	Indicates depth at which Shelby Tube Sample was obtained and diameter of sample.
<u>Standard Penetration Test with Split Spoon Sampler</u>	
	Indicates number of blows for the middle two 6" increments of a 24" drive. (5) is number of blows for second 6" increment. (7) is number of blows for third 6" increment. (P) used in place of (5) & (7) indicates pushed sample. Center of circle is at bottom of second 6" increment.
	Indicates water level at 0 hrs.
	Indicates water level after 24 hrs. if water level is measured at a time other than 24 hrs., the hour is noted.
	Indicates Plasticity Index

SYMBOLS - PLAN

- Indicates location of profile boring.
- ⊙ Indicates location of boring made with Split Spoon Sampling.
- ⊙ Indicates location of core boring.
- X Indicates location of sounding, rock or peat.

ABBREVIATIONS

Cl. - Clay
L. - Loam
Si. - Silty, Silt
Sa. - Sandy, Sand
Gvl. - Gravel
Bl. - Black
Dk. - Dark
Gr. - Gray, Grayish
Lt. - Light
Red - Red, Reddish
Yel. - Yellow, Yellowish
Mot. - Mottled
Br. - Brown, Brownish
Peb. - Pebbles

RELATIVE PROPORTIONS

Trace = 1-10%
Little = 10-20%
Some = 20-35%
And = 35-50%

CONSISTENCY

Very Soft - 3 blows/ft. or less
Soft - 3 to 5 blows/ft.
Medium Stiff - 5 to 10 blows/ft.
Stiff - 10 to 15 blows/ft.
Very Stiff - 15 to 30 blows/ft.
Hard - 30 blows/ft. or more

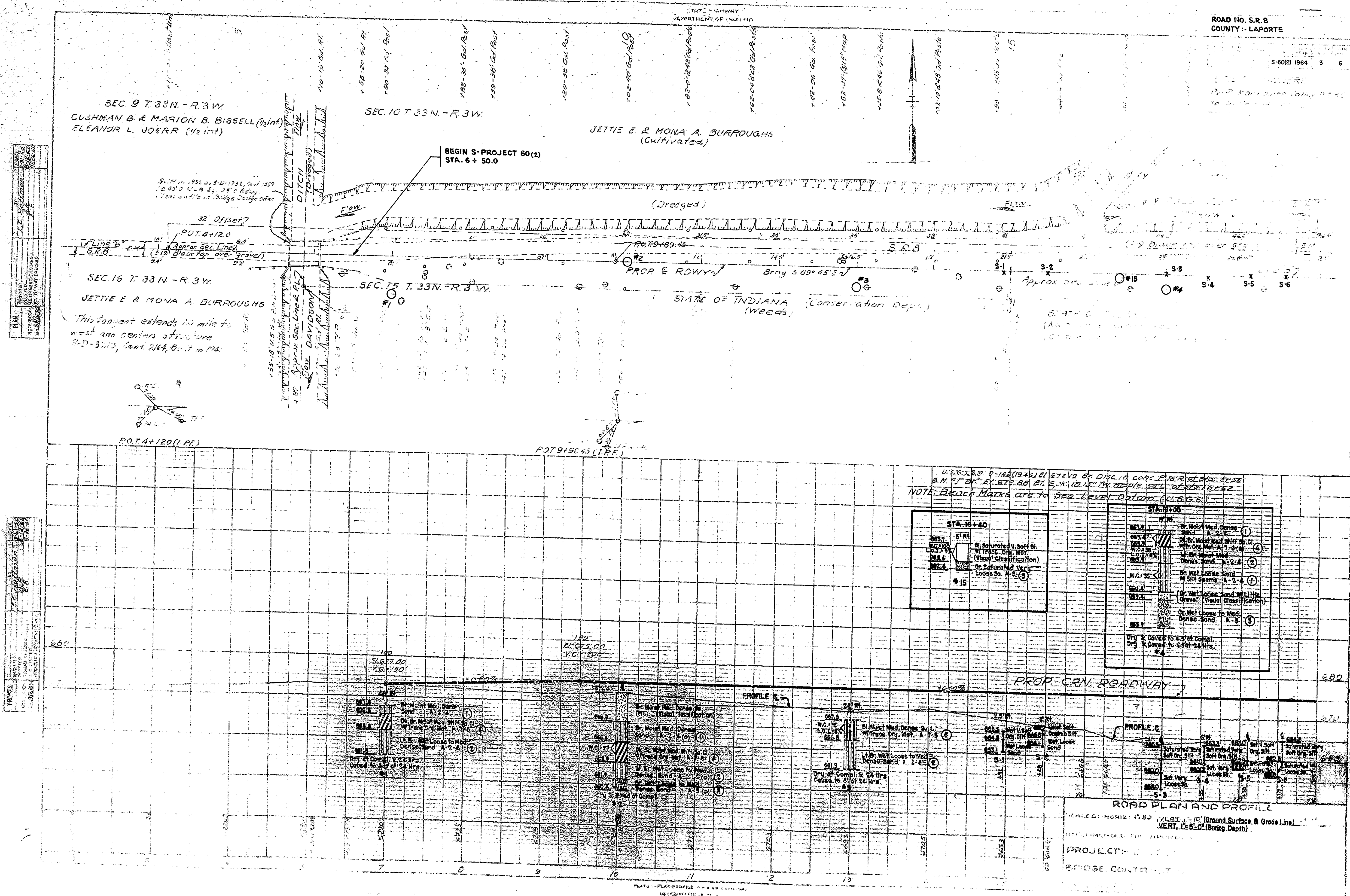
DENSITY

Very Loose - 5 blows/ft. or less
Loose - 5 to 10 blows/ft.
Medium Dense - 10 to 30 blows/ft.
Dense - 30 to 50 blows/ft.
Very Dense - 50 blows/ft. or more

NOTE: Density and consistency terms apply to borings with standard penetration tests. In other borings, density and consistency were estimated by inspection.

LABORATORY DATA SUMMARY																			
Lab. No.	Boring No.	Station	Offset	Sample No.	Sample Depth	Classification	DATA SUMMARY												
							A.A.S.H.O.	% Passing	% Sand	% Silt	% Clay	% Coll.	L.L.	P.L.	P.I.	S.L.			
1	2	10+05	C	2	85'-4.5'	Brown Sand	A-2-4 (1)	99	87	16	13	87	3	10	4	NP	NP	NP	NP
2	2	10+05	C	4	85'-9.5'	Light Brown Sand	A-2-4 (1)	96	63	11	10	90	—	—	—	—	—	—	—
3	2	10+05	C	5	105'-11.5'	Gray Sand	A-3 (1)	100	71	5	4	98	—	—	—	—	—	—	—
4	4	17+00	18" R/L	1	0'-5.15'	Dark Brown Sandy Clay W/lt. Org. Mat.	A-7-6 (3)	100	91	42	41	59	3	38	28	57	27	30	13
5	5E	21+43	18" R/L	7	12'-14"	Gray Silty Clay Loam w/ Little Org. Mat.	A-7-6 (3)	100	83	34	31	69	22	2	46	26	20	—	—
6	10	43+66	25" R/L	1	2'-3"	Black Sandy Loam w/ Little Org. Mat.	A-7-6 (5)	98	90	82	30	50	35	15	6	69	39	30	16
7	11	47+00	C	1	8'-8"	Black Sand And Organic Mat.	A-2-4 (1)	66	36	3	3	97	1	2	0	NP	NP	NP	NP
8	12	49+00	50" R/L	1	7'-8"	Brown Sandy Loam w/ Little Org. Mat.	A-2-4 (1)	100	98	25	22	78	20	2	0	NP	NP	NP	NP
9	11R	47+00	2" L/L	5	9'-10"	Black Peat	L.O.S. 73.3												

L.O.I. = 73%



STATE OF INDIANA
(Heavy Metal)

STATE OF INDIANA
Game Preserve
Conservation Dept.
Hunting Woods

