

**STATE OF ILLINOIS**  
**DEPARTMENT OF PUBLIC WORKS AND BUILDINGS**  
**DIVISION OF HIGHWAYS**  
**PLANS FOR PROPOSED**  
**STATE BOND ISSUE HIGHWAY**

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 134	101-VBR	EDGAR	21	1
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT FG-177(5)	

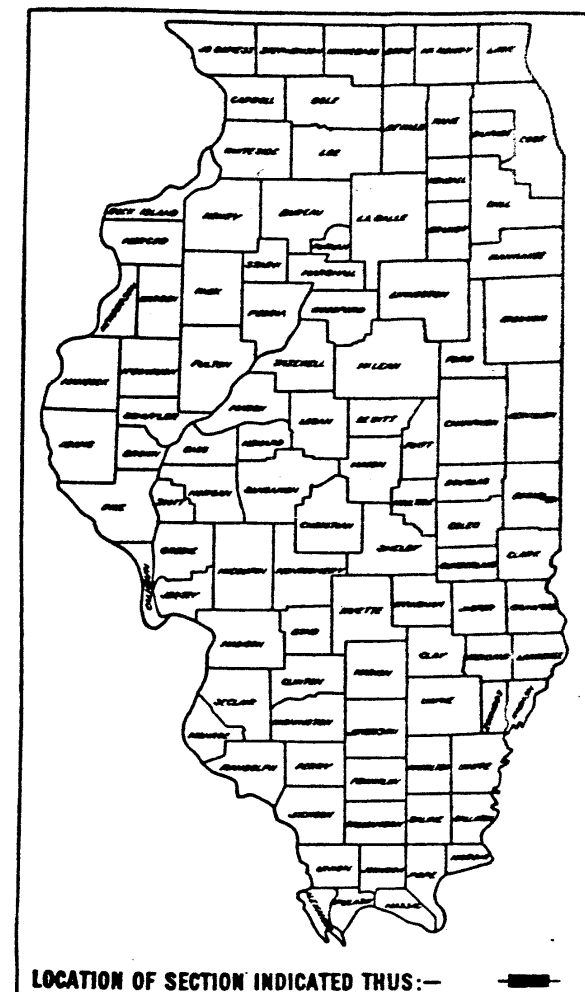
P.95-270-00

**SCALES**

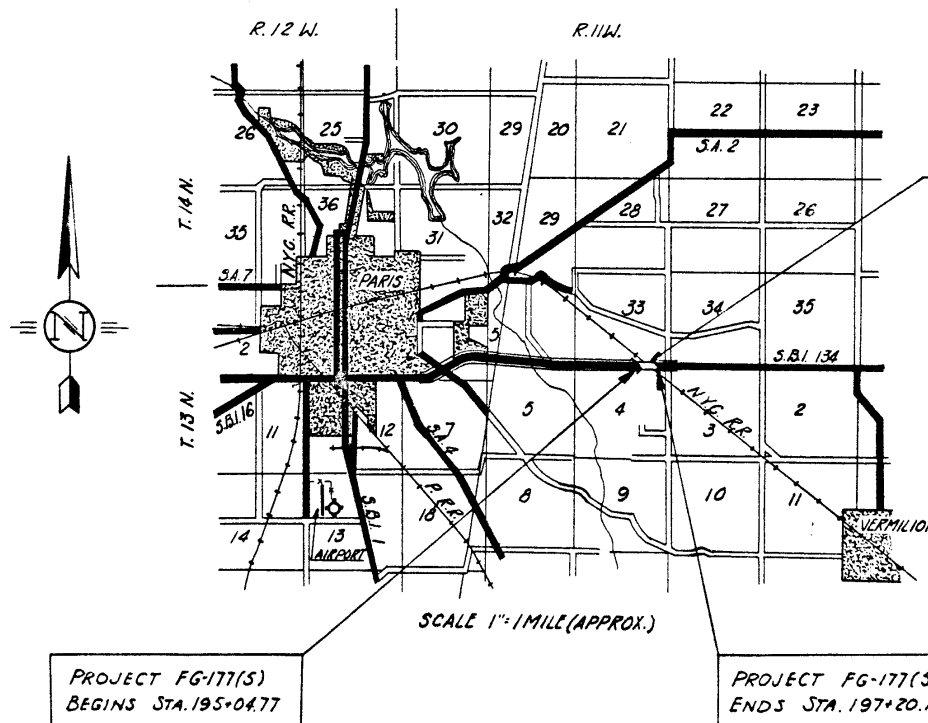
PLAN	1 INCH	100 FT.
PROFILE, HOR.	1 INCH	100 FT.
PROFILE, VERT.	1 INCH	10 FT.
CROSS-SECTIONS	1 INCH	5 FT. VERT. 10 FT. HORZ.

S.B.I. ROUTE 134, SECTION 101-VBR, EDGAR COUNTY  
 PROJECT NO. FG-177 ( 5 )

C-95-101-65



FILE COPY  
 11 MARCH 1966  
 # 1 ✓



SECTION 101-VBR INCLUDES SPECIAL BRIDGE DESIGN, CONTINUOUS I-BEAM WITH R.C. DECK ON SOLID PIERS AND PILE BENT ABUTMENTS:  
 3 SPANS @ 63'-9", 81'-6" & 63'-9"  
 30' ROADWAY (SKEWED 52°04'40")  
 A.R. STATION 196+12.46

PROJECT FG-177(5)  
 BEGINS STA. 195+04.77

PROJECT FG-177(5)  
 ENDS STA. 197+20.15

DESIGN CLASSIFICATION  
 630-M-70

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS  
 DIVISION OF HIGHWAYS

SUBMITTED January 15, 1966  
 EXAMINED January 25, 1966  
 DRAWN BY G. W. Van Dusen  
 CHECKED BY H. J. O'Neil  
 APPROVED January 25, 1966  
Francis J. Gray

FOR INDEX OF SHEETS  
 SEE SHEET NO. 2A

FOR SUMMARY OF QUANTITIES  
 SEE SHEET NO. 2A

5-23

DEPARTMENT OF COMMERCE  
 BUREAU OF PUBLIC ROADS

APPROVED \_\_\_\_\_  
 DISTRICT ENGINEER

DATE \_\_\_\_\_

TOTAL LENGTH OF SECTION 101-VBR = 215.38 FEET = 0.041 MILES  
 NET LENGTH OF SECTION 101-VBR = 215.38 FEET = 0.041 MILES  
 NET LENGTH OF PROJECT FG-177(5) = 215.38 FEET = 0.041 MILES

023-0014  
 CONTRACT NO. 24347

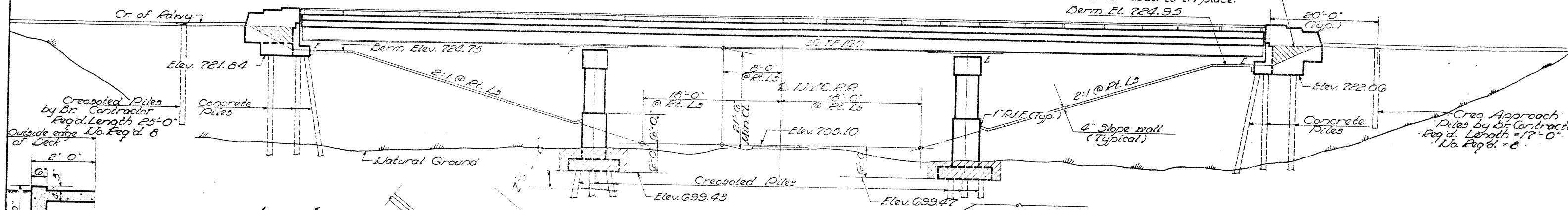


STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
101VBR	EDGAR	21	4	14 SHEETS

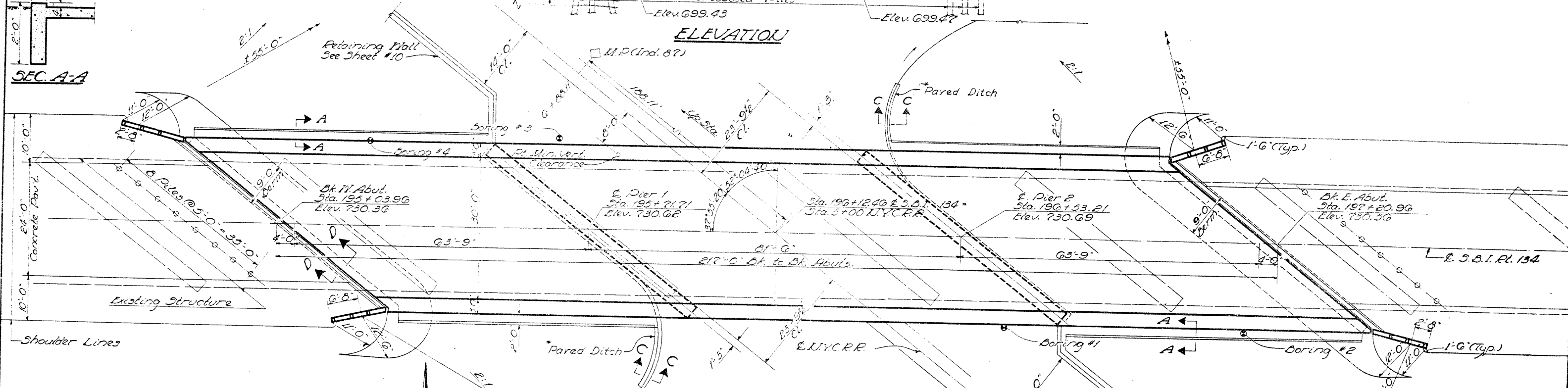
21" X in Steel Exp. St. Edge Rvmt. Lt. Sta. 195+57  
Elev. 729.09.  
Existing Structure: 1-Bms-7 Simple Spans - 2@52'-2" - 2@50'-0 1/2" - 2@50'-8 1/2"  
& 7@55'-0" with 23'-8" Rdwy. Substructure R.C. Pile Bents & 2 R.C. Piers.  
Structure to be removed by Bridge Contractor prior to Construction  
of New Bridge.

Embankment Backfill  
by Bridge Contractor  
after abut. is in place.  
Berm El. 724.95



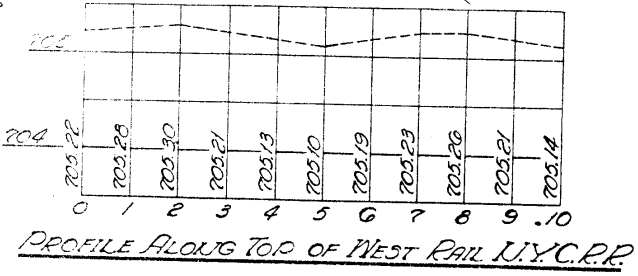
**ELEVATION**

**SEC. A-A**

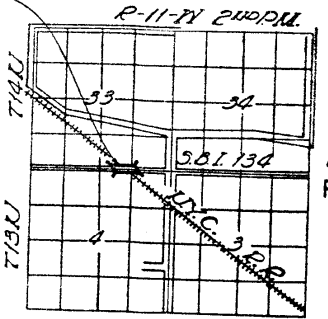


**PLAN**

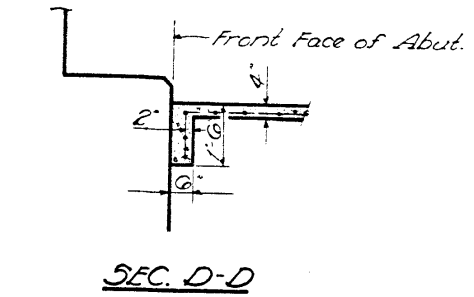
\*Note: Est. Length of Paved Ditch 25 ft. Cost incidental to Slope Wall.



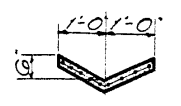
PROFILE ALONG TOP OF WEST RAIL N.Y.C.R.R.



LOCATION PLAN



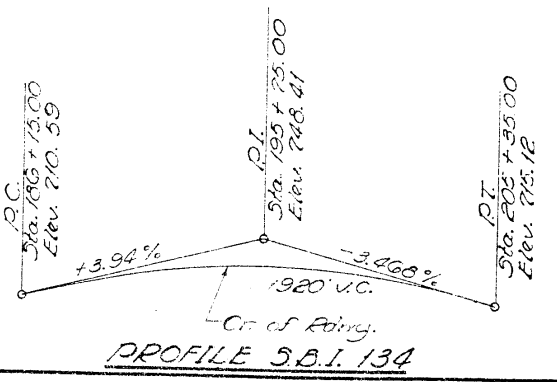
**SEC. D-D**



**SEC. C-C**

DESIGNED Sam F. Maden  
CHECKED Bobby S. Chiles  
DRAWN Jacobs  
CHECKED B.C.

MARCH 25 1965  
EXAMINED Carl Hummer  
PASSED  
APPROVED  
ENGINEER OF DESIGN  
CHIEF HIGHWAY ENGINEER



PROFILE S.B.I. 134

**DESIGN STRESSES**

$f_c = 1400$  p.s.i. Super & Sub.  
 $f_s = 20000$  p.s.i. (Reinf.)  
 $f_s = 20000$  p.s.i. (Struct.) (A-36)  
 $V_c = 75$  p.s.i. Ftgs.  
 $n = 10$   
44-L/1000  
LOADING 4320-44

PROJ. FG-177(5)  
GENERAL PLAN & ELEVATION  
OVER N.Y.C.R.R. (C.C.C. & ST.L.)  
S.B.I. RT. 134 (U.S. 150) SEC. 101VBR  
EDGAR COUNTY  
STA. 196+12.46 (S.B.I. RT. 134)  
STA. 5+00 (C.C.C. & ST.L. R.R.)

**GENERAL NOTES**

Coarse aggregate to be used in parapet handrails and end posts must be free of chert, flint, limonite, lignite and soft sandstone. The concrete floor slab shall be finished in accordance with Article 51.19 of the Standard Specifications.

Slope Wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 Sq. Ft.

All reinforcement bars shall be lapped 20 diameters unless otherwise shown.

All structural steel shall conform to A.S.T.M. Designation A-36. Rivets 3/4" Open Holes 3/8", unless otherwise noted.

Anchor bolts shall be set before fastening diaphragms over supports.

Exposed surfaces of the expansion devices, inaccessible after erection, shall receive two shop coats of red lead paint. All other surfaces shall be given one shop coat of red lead paint. Anchor studs shall not be painted.

Expansion devices are included in the quantity of structural steel. Est'd. Weight = 7000 Lbs.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Articles 56.1 to 56.5 inclusive of the Standard Specifications.

Concrete piles of abutments shall be driven in holes precored thru the embankment in accordance with Article 60.9(c) of the Standard Specifications.

The Contractor shall drive one concrete pile at the East Abut., in a permanent location, and one timber test pile in the vicinity of Pier 1 as directed by the Engineer before ordering the remainder of piles.

Layout of slope walls may be varied to suit ground conditions in the field as directed by the Engineer.

Permanent forms will not be permitted in forming the concrete deck.

**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub	Total
Class A Excavation for Struct.	Cu. Yds.		239	239
Class X Concrete	Cu. Yds.	2430	398.5	641.5
Structural Steel	Lbs.	246,920		246,920
Aluminum Handrail	Lin. Ft.	424		424
Reinforcement Bars	Lbs.	50,560	33,020	83,580
Concrete Piles	Lin. Ft.	50,750	1,302	1,302
Test Pile (Concrete)	Each		1	1
Creosoted Piles	Lin. Ft.		2,226	2,226
Test Pile (Timber)	Each		1	1
Name Plates	Each	1		1
Protective Coat	Sq. Yds.	979		979
* Bridge Seat Sealant	Lump Sum			Lump Sum
Removal of Existing Struct.	Each			1
Slope Wall 4"	Sq. Yds.		658	658

361.4  
644.4

83,580

\* Bridge Seat Sealant to be used on seats at Abutments only.

U.I.C. RR (C.C.C. & ST.L.)  
BUILT 196 BY  
STATE OF ILLINOIS  
S.B.I. PT. 134 - SEC. 101VBR  
FA PROJ. FG-177 (5)  
STA. 196 + 12.46  
LOADING H520

NAME PLATE  
See Std. 2113-1

DESIGNED <i>San E. Madonia</i>	MARCH 25 1965
CHECKED <i>Bob Chilton</i>	EXAMINED <i>Carl Timm</i> ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN <i>Jacobs</i>	PASSED
CHECKED <i>B.C.</i>	APPROVED ENGINEER OF DESIGN CHIEF HIGHWAY ENGINEER

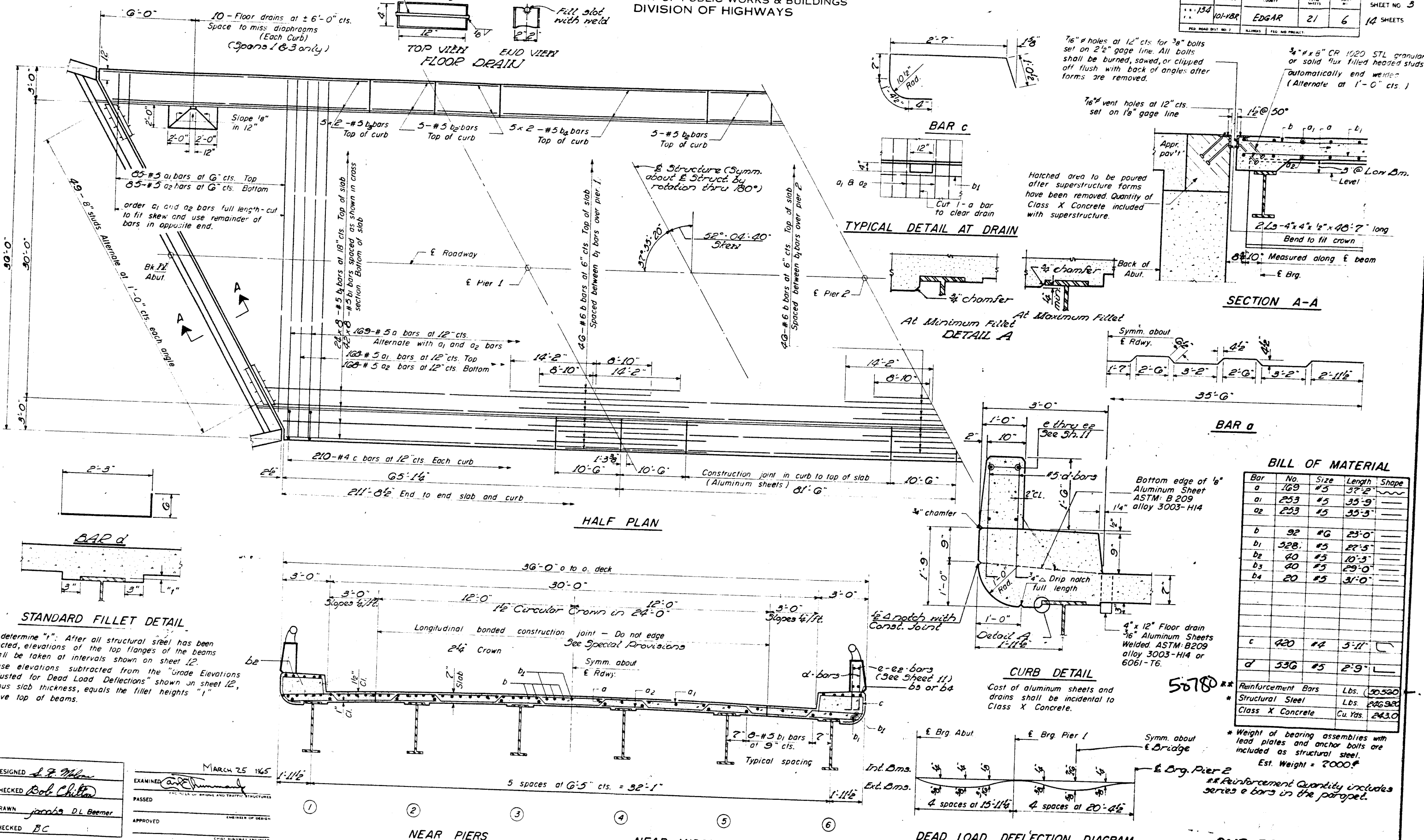
**GENERAL NOTES &  
TOTAL BILL OF MATERIAL**  
S.B.I. PT. 134 - SEC. 101VBR  
EDGAR COUNTY  
STA. 196 + 12.46

Quantities 6166 MB/WMC

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
134	101-VBR	EDGAR	21	6
SHEET NO. 3 14 SHEETS				

Note:  
Bars indicated thus 2Ux3-#5 etc. indicates  
20 lines of bars with 3 lengths per line.  
Min bar laps = 20 dia.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	169	#5	37'-2"	~
a1	253	#5	35'-9"	~
a2	253	#5	35'-3"	~
b	92	#6	23'-0"	~
b1	528	#5	22'-5"	~
b2	40	#5	10'-5"	~
b3	40	#5	29'-0"	~
b4	20	#5	31'-0"	~
c	420	#4	5'-11"	~
d	536	#5	2'-9"	~
Reinforcement Bars				Lbs. 50560
Structural Steel				Lbs. 246920
Class X Concrete				Cu. Yds. 243.0

\* Weight of bearing assemblies with lead plates and anchor bolts are included as structural steel.  
Est. Weight = 7000#

\*\* Reinforcement Quantity includes series e bars in the parapet.

SUPERSTRUCTURE  
S.B. 1.PT. 134-SEC. 101 VBR  
EDGAR COUNTY  
STA. 196+12.46

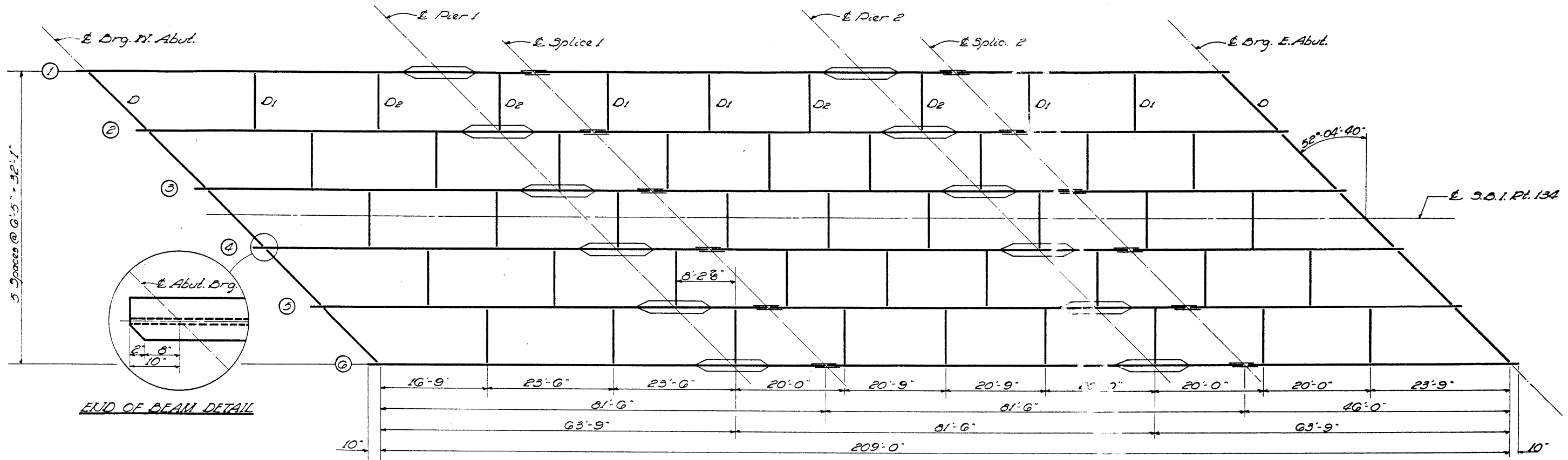
STANDARD FILLET DETAIL

To determine "r": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet 12. These elevations subtracted from the "Grade Elevations Adjusted for Dead Load Deflections" shown on sheet 12, minus slab thickness, equals the fillet heights "r" above top of beams.

DESIGNED	L. F. Wilson	EXAMINED	W. J. Hummer
CHECKED	Bob Chilton	PASSED	
DRAWN	Jacob D. L. Beemer	APPROVED	
CHECKED	BC		

I-6-R (> 15°) 7-2-62 Rev. 11-9-62

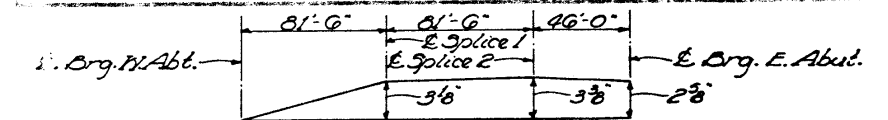
Quantity to be used for 166 HP/WML



**STRUCTURAL STEEL LAYOUT**  
All Beams 36 Pf 160

**ELEVATIONS TOP OF WF**

Brms.	E Brg. W. Abut.	Pier 1	Splice 1	Pier 2	Splice 2	E Brg. E. Abut.
1	729.478	729.683	729.740	729.755	729.759	729.698
2	729.626	729.831	729.888	729.903	729.907	729.846
3	729.715	729.920	729.977	729.992	729.996	729.935
4	729.717	729.922	729.979	729.994	729.998	729.937
5	729.626	729.831	729.888	729.903	729.907	729.846
6	729.477	729.682	729.739	729.754	729.758	729.697

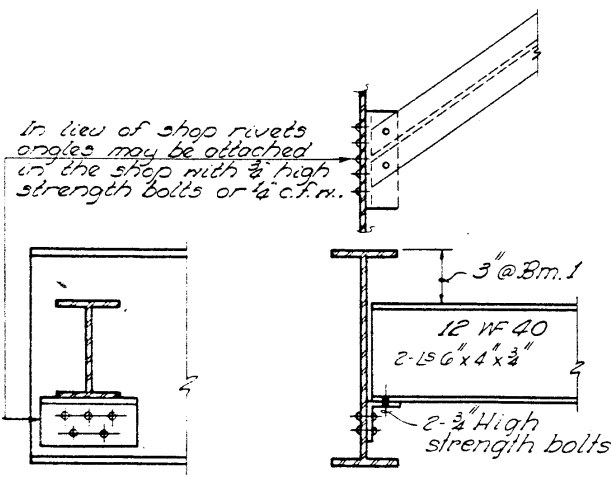


**FABRICATION DIAGRAM**

**STRESS TABLE - INT. BM'S.**

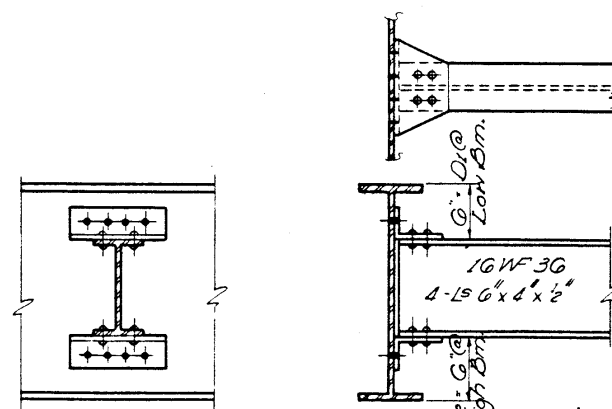
	Moments		Reactions	
	4 Span 1 Pier 1	5 Span 2 Abut. Pier 2	Pier 1	Pier 2
D.L.	252.43	545.97	257.30	145.32
L.L.	405.50	385.83	416.84	118.00
Imp.	107.46	98.00	100.88	
Total	765.39	1029.80	775.02	263.32

Moments - Ft. Kips    Reactions - Kips



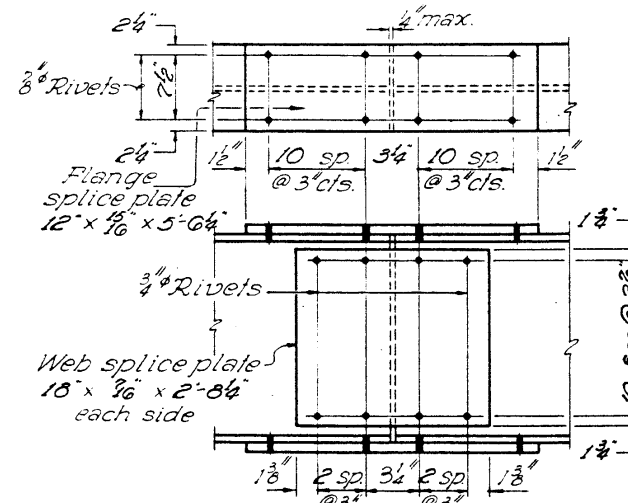
**DIAPHRAGM D**

10 Required

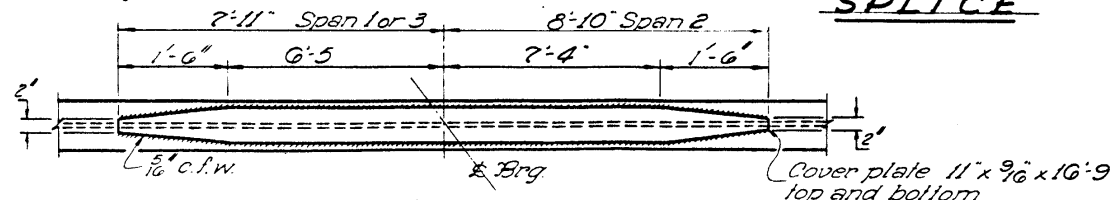


**DIAPHRAGM D1 & D2**

25-D1 Required  
20-D2 Required



**SPLICE**



**COVER PLATE**

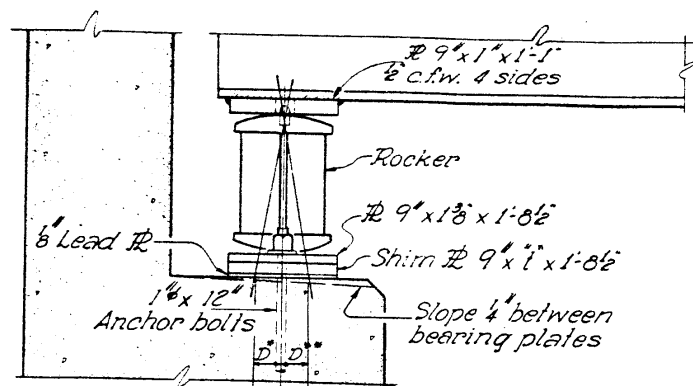
DESIGNED <i>S. F. Miller</i>	EXAMINED <i>Carl Thurman</i>	MARCH 25 1965
CHECKED <i>Bob Chilton</i>	PASSED	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN <i>J.C. Mullerix</i>	APPROVED	ENGINEER OF DESIGN
CHECKED BC		CHIEF HIGHWAY ENGINEER

**STRUCTURAL STEEL**

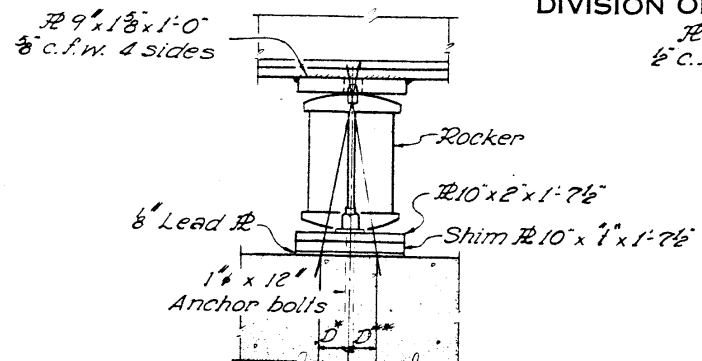
30.1 PT. 134-SEC. 10+BR  
EDGAR COUNTY  
STA. 196+12.46

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

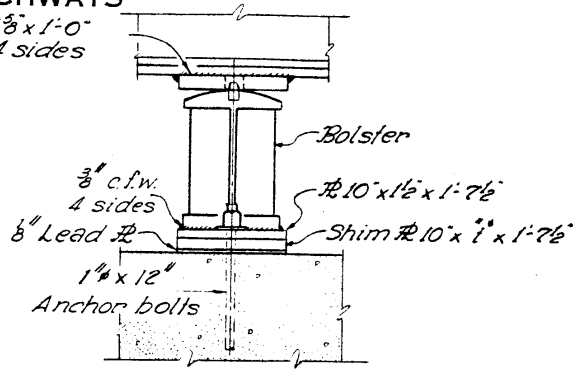
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
134	10-10A	EDGAR	21	8	14 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT			



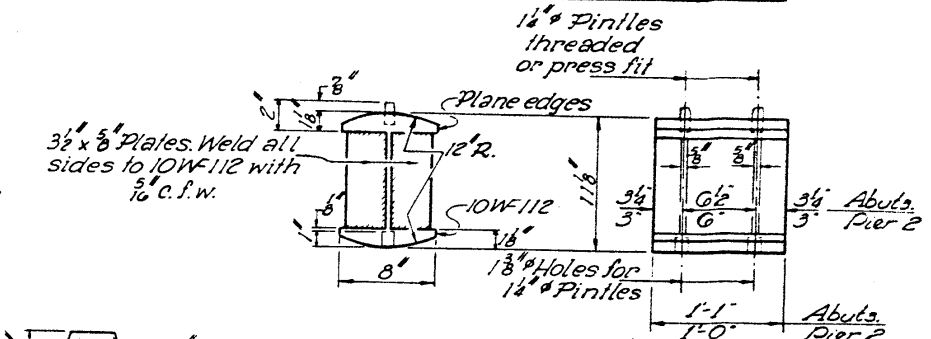
ELEVATION



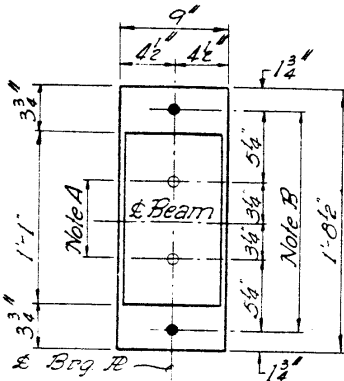
ELEVATION



ELEVATION

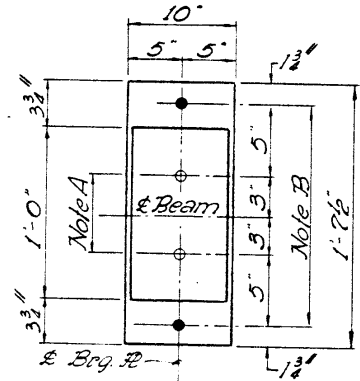


ROCKER



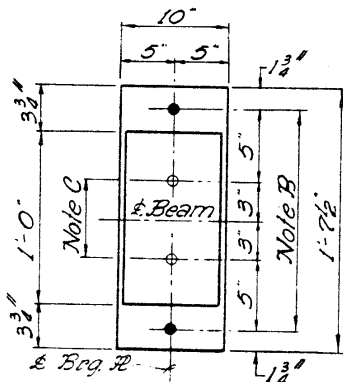
PLAN @ ABUTMENTS

Note A  
1 1/8" Holes - 1" deep in top plate for pintles. Thread or press fit pintles into bottom plate.



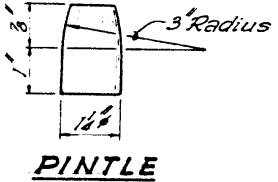
PLAN @ PIER 2

Note B  
1 1/2" Holes for 1" anchor bolts. 2 1/2 x 2 1/2 x 1/2 plate. Washer under nut.

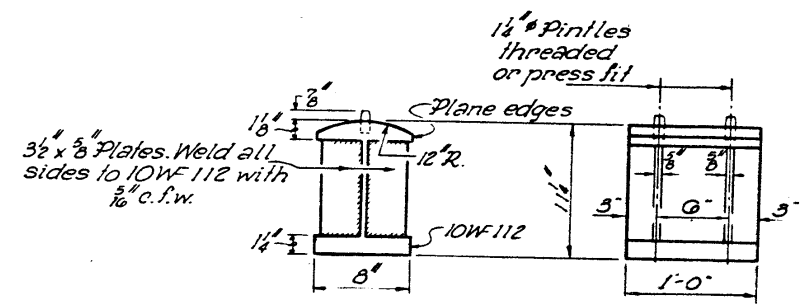


PLAN @ PIER 1

Note C  
1 1/8" Holes - 1" deep in top plate only for 1/2 pinholes.



PINTLE



BOLSTER

NOTES ON SETTING OF ANCHOR BOLTS AT EXP BRGS.

- a) D\* (Side of brg. away from fixed brg.)  
D\* = 1/8" per each 100' increment of expansion for every 15" fall from temp. of 50°F
- D\*\* (Side of brg. toward fixed brg.)  
D\*\* = 1/8" per each 100' increment of expansion for every 15" rise from temp. of 50°F
- b) After beams have been erected and dimension D\* or D\*\* determined anchor bolts shall be placed in drilled holes and grouted.

BEARING ASSEMBLY DETAILS

Note: No Shim Plates Required.

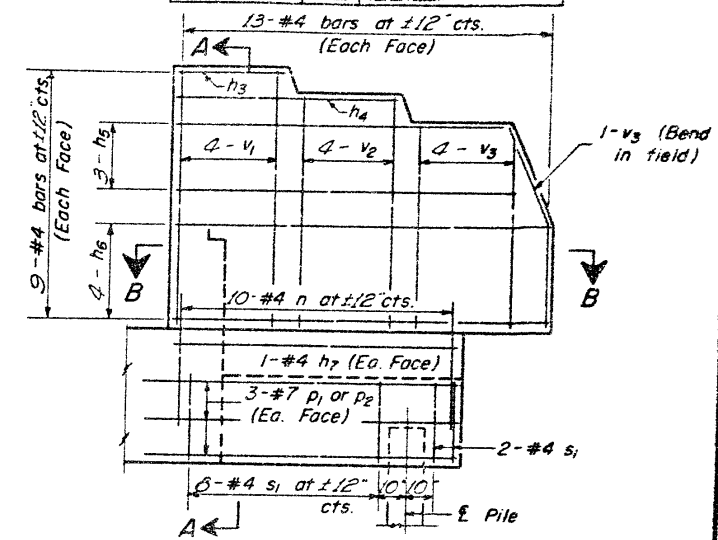
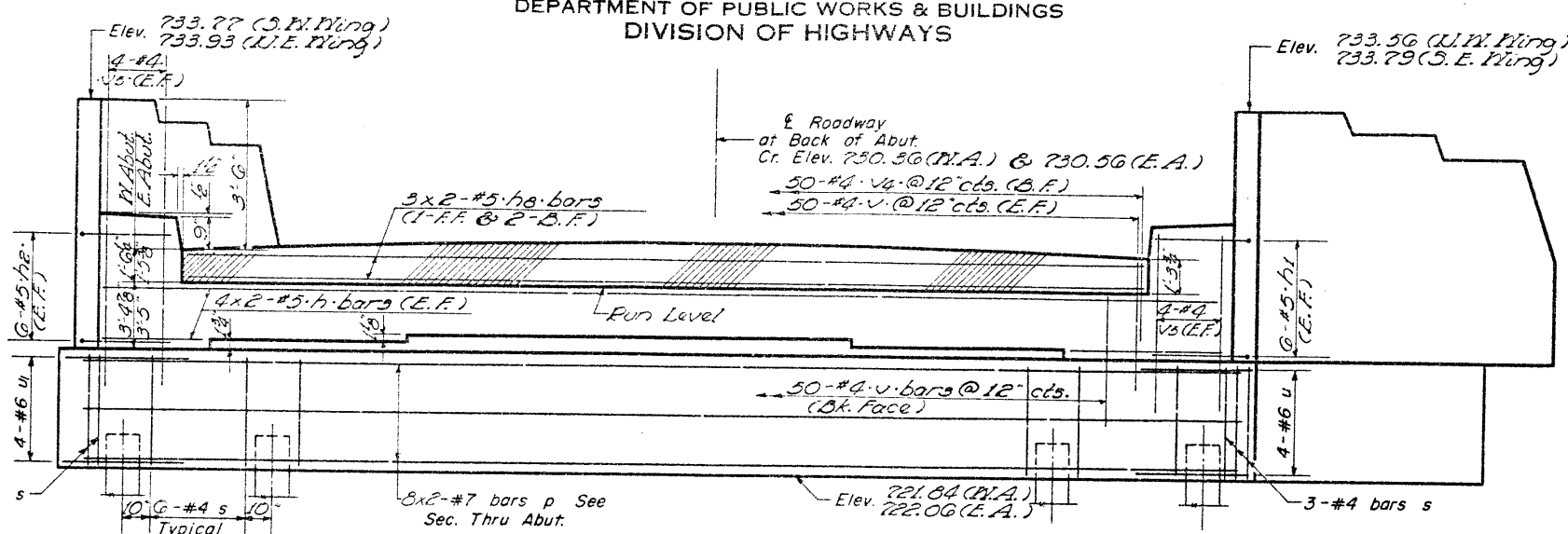
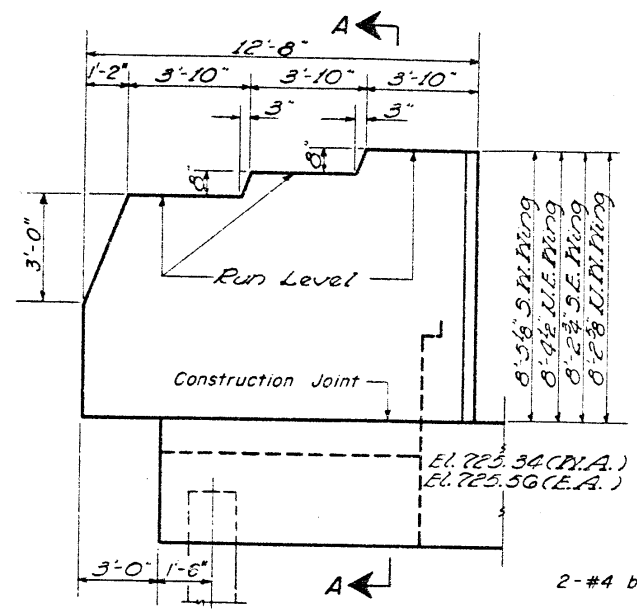
DESIGNED	Sen. E. Mahan
CHECKED	Bob Chilton
DRAWN	J. C. Miller
CHECKED	B.C.

EXAMINED	Carl Hummer	MARCH 25 1965
PASSED		
APPROVED		

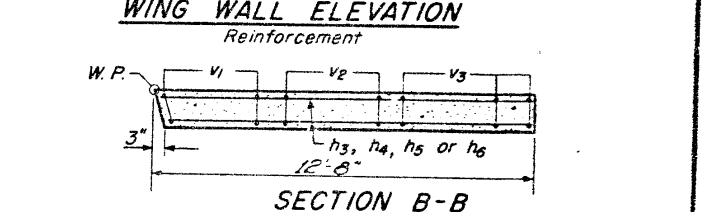
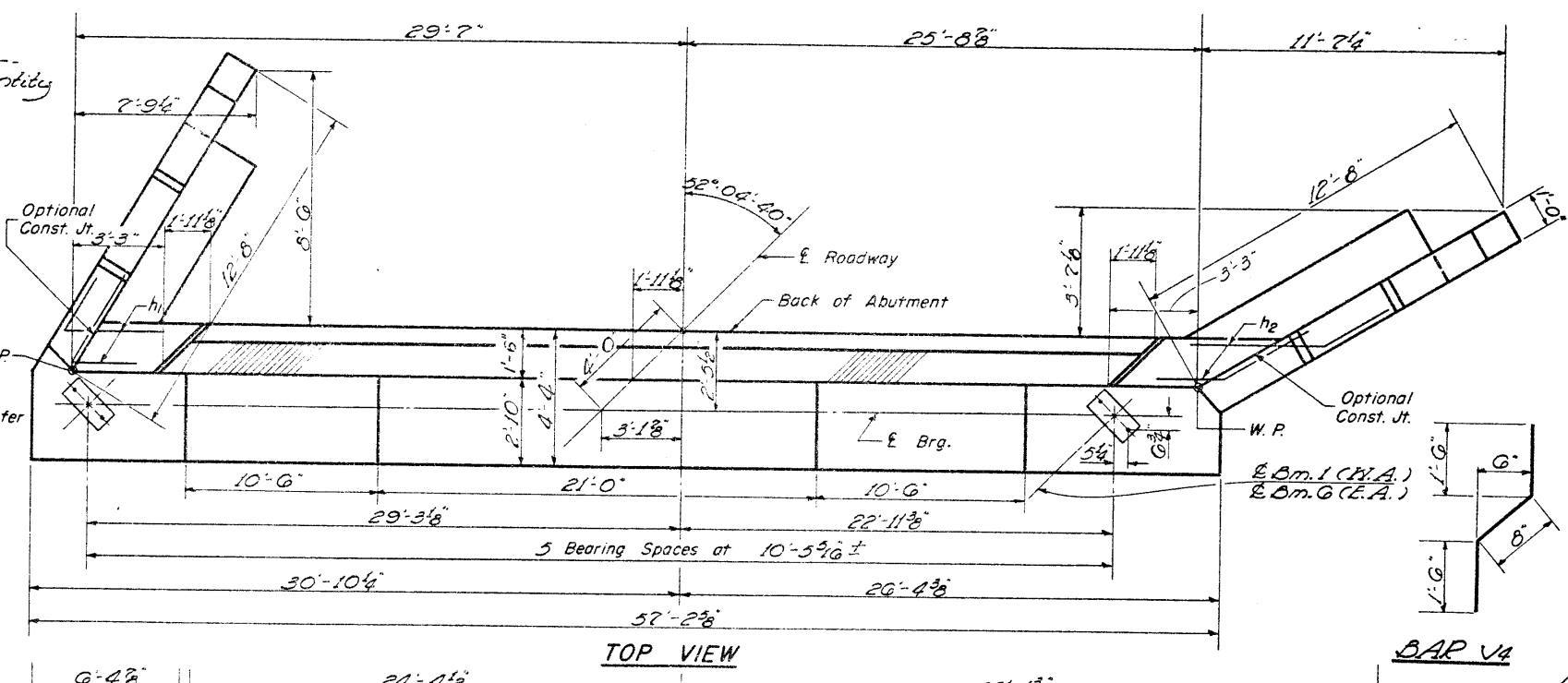
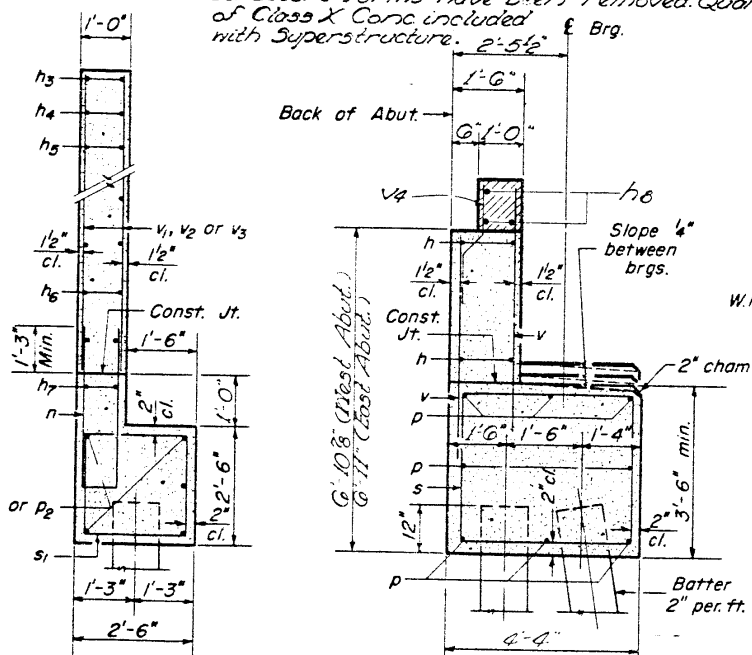
BEARING DETAILS  
2.B.1.PT.134-SEC.10NDP  
EDGAR COUNTY  
STA. 196+1246

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
134	101-NBR	EDGAR	21	9
SHEET NO. 14 SHEETS				



**NOTE**  
Hatched area is to be poured after superstructure forms have been removed. Quantity of Class X Conc. included with Superstructure. 2'-5 1/2" E Brg.



**2 ABUTMENTS**  
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h	32	#5	27'-0"	—
h <sub>1</sub>	24	#5	7'-3"	L
h <sub>2</sub>	24	#5	7'-6"	—
h <sub>3</sub>	8	#4	3'-3"	—
h <sub>4</sub>	8	#4	7'-0"	—
h <sub>5</sub>	24	#4	11'-0"	—
h <sub>6</sub>	32	#4	12'-2"	—
h <sub>7</sub>	8	#4	9'-0"	—
h <sub>8</sub>	12	#6	25'-0"	—
n	40	#4	7'-9"	U
p	32	#7	29'-3"	—
p <sub>1</sub>	12	#7	9'-0"	—
p <sub>2</sub>	12	#7	11'-0"	—
s	106	#4	15'-2"	—
s <sub>i</sub>	40	#4	9'-6"	—
u	8	#6	9'-11"	U
u <sub>1</sub>	8	#6	8'-3"	—
v	200	#4	6'-0"	—
v <sub>1</sub>	32	#4	8'-0"	—
v <sub>2</sub>	32	#4	7'-4"	—
v <sub>3</sub>	40	#4	6'-8"	—
v <sub>4</sub>	100	#4	3'-8"	—
v <sub>5</sub>	32	#4	7'-0"	—
Class X Concrete		Cu.Yds	111.3	
Reinforcement Bars		Lbs.	8120	
Concrete Piles		Lin.Ft.	1302	
Test Piles (Conc.)		Each	1	

**PILE DATA**  
Type Concrete  
Capacity 40 Tons  
Est. Length 62 Ft.  
No. Required 21 (Plus 1 test pile)

DESIGNED	S. F. Malbon	EXAMINED	March 25 1965
CHECKED	Bob Chilton	PASSED	
DRAWN	J. A. Sandoval	APPROVED	
CHECKED	B. C.		

**ABUTMENTS**  
S.B.I.P.T. 134-SEC. 101-NBR  
EDGAR COUNTY  
STA. 196+1246

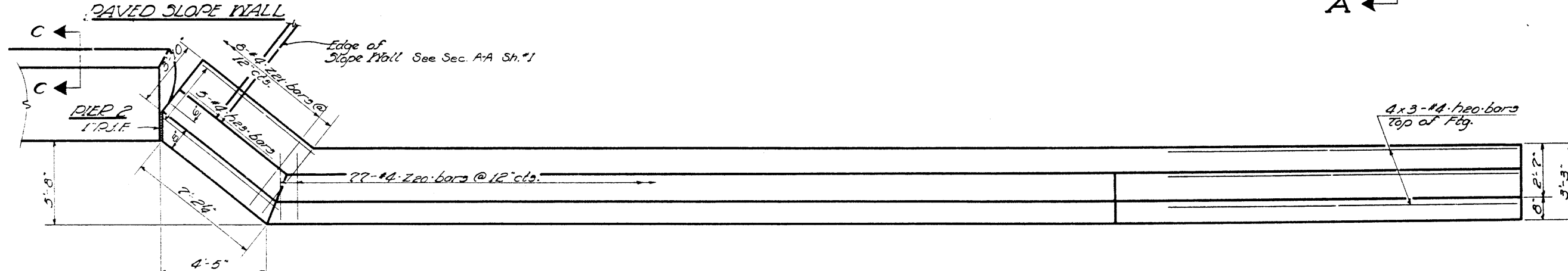
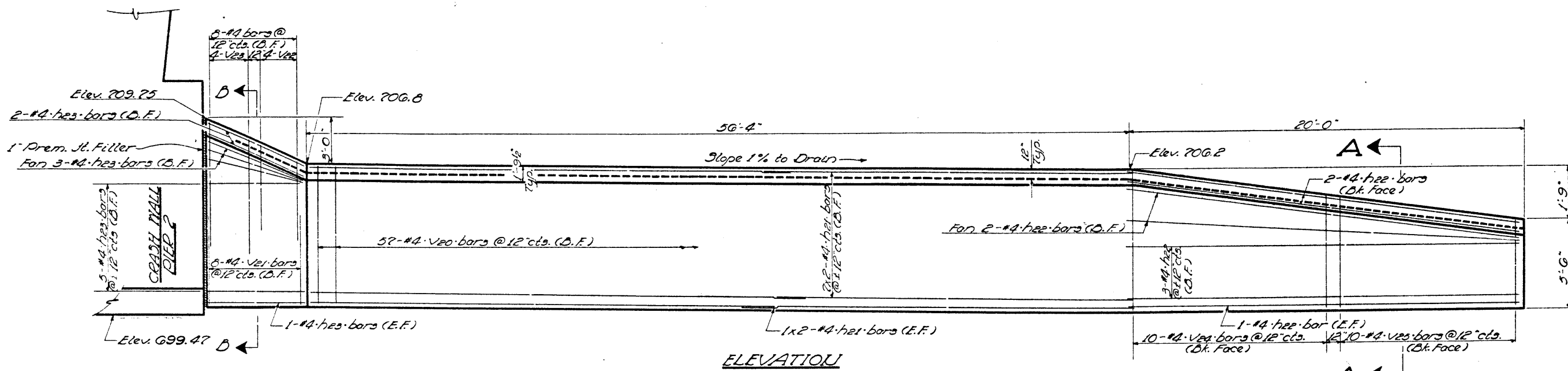




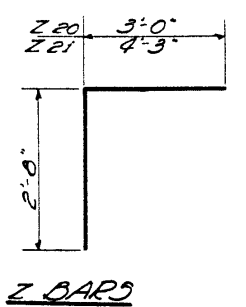
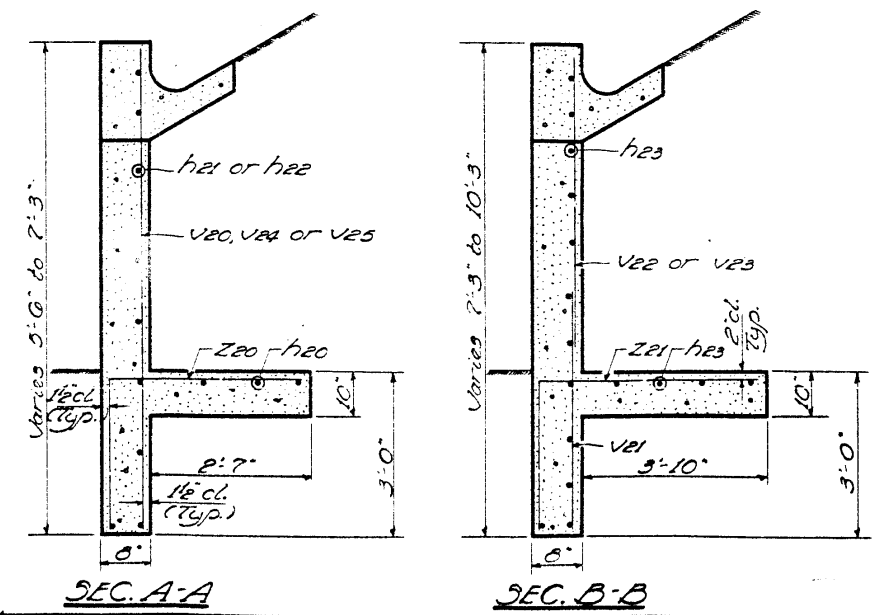
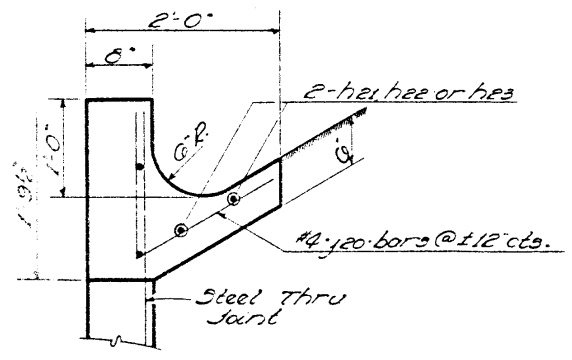
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
134	101-NR	EDGAR	21	12
FED. ROAD DIST. NO. 1		ALUMINUM	FED. AID PROJECT	

SHEET NO. 9  
14 SHEETS

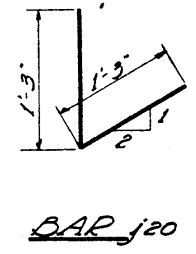


Note: For Sec. C-C see Sheet #10.



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
heo	12	#4	26'-0"	—
hee	22	#4	29'-0"	—
hee	11	#4	20'-3"	—
hee	19	#4	8'-0"	—
j20	85	#4	2'-6"	✓
V20	57	#4	7'-0"	—
V21	8	#4	5'-6"	—
V22	4	#4	3'-9"	—
V23	4	#4	5'-3"	—
V24	10	#4	6'-3"	—
V25	10	#4	5'-3"	—
Z20	77	#4	5'-8"	┘
Z21	8	#4	6'-11"	┘
Class X Concrete		Cu. Yds.	24.3	24.0
Reinforcement Bars		Lbs.	1750	



DESIGNED *L.T. Walker*  
CHECKED *Bob Chilton*  
DRAWN *Jacobs*  
CHECKED *B.C.*

MARCH 25 1965  
EXAMINED *Carl E. Funnell*  
PASSED  
APPROVED *[Signature]*  
CHIEF HIGHWAY ENGINEER

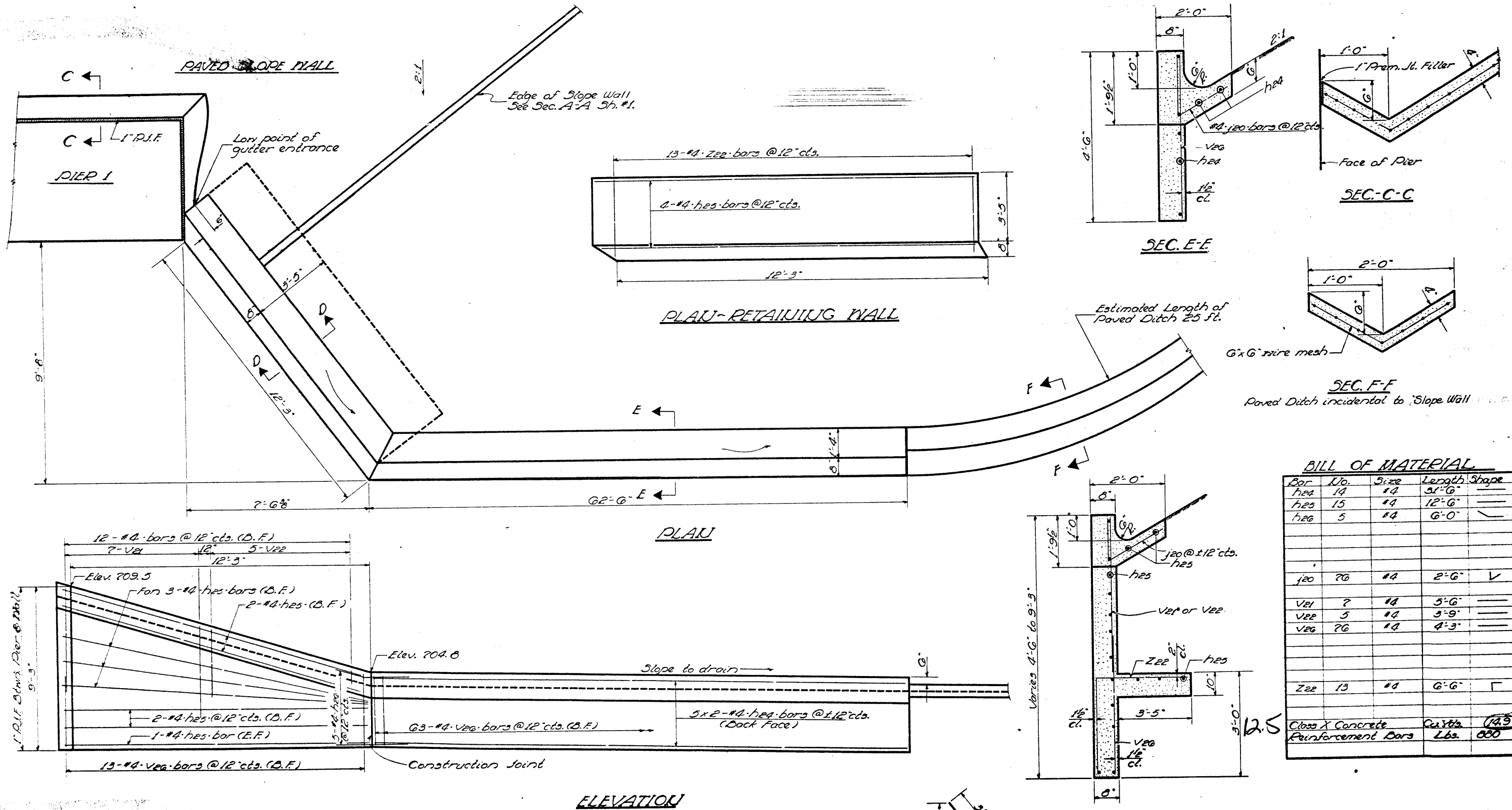
**EAST RETAINING WALL**  
S.B.I. RT. 134 - SEC. 101-NR  
EDGAR COUNTY  
STA. 196+12.46

11/20/65 HPG/WMB

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
134	101VBR	EDGAR	21	13
FED. ROAD DIST. NO. 7		ALIGNED	REG. AND PROJECT	

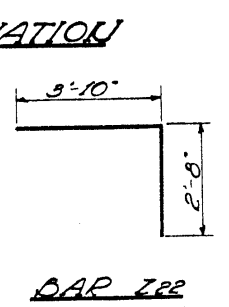
SHEET NO. 10  
14 SHEETS



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
hea	14	#4	31'-6"	—
hes	15	#4	12'-6"	—
hee	5	#4	6'-0"	—
j20	26	#4	2'-6"	∨
v21	7	#4	5'-6"	—
v22	5	#4	3'-9"	—
v23	26	#4	4'-3"	—
zee	13	#4	6'-6"	└
Class X Concrete		Cu. Yds.	14.5	
Reinforcement Bars		Lbs.	880	

DESIGNED	L. F. Madrin	EXAMINED	[Signature]
CHECKED	Bob Chilton	PASSED	
DRAWN	Jacobs	APPROVED	
CHECKED	B.C.		



**WEST RETAINING WALL**  
S.B.I.P.T. 134-SEC. 101VBR  
EDGAR COUNTY  
STA. 196+12.40

CONSTRUCTION BY 6-1-66 JPS/NMB



STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

EXTERIOR BMS 1 & G

INTERIOR BMS 2-5

SPAN 1

SPAN 2

SPAN 3

Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
E. Org. P. Abut. 1	19487.370	16.041	730.061	730.061
	19528.550	16.041	730.264	730.264
E. Org. Pier 1	19497.370	16.041	730.116	730.136
	19538.550	16.041	730.304	730.324
	19507.370	16.041	730.168	730.201
	19548.550	16.041	730.340	730.373
	19517.370	16.041	730.216	730.250
	19558.550	16.041	730.372	730.406
	19527.370	16.041	730.260	730.284
	19568.550	16.041	730.400	730.424
	19537.370	16.041	730.300	730.312
	19578.550	16.041	730.424	730.436
E. Org. Pier 2	19551.120	16.041	730.348	730.348
	19592.300	16.041	730.451	730.451
	19561.120	16.041	730.379	730.394
	19602.300	16.041	730.466	730.481
	19571.120	16.041	730.406	730.436
	19612.300	16.041	730.477	730.507
	19581.120	16.041	730.429	730.470
	19622.300	16.041	730.484	730.525
	19591.120	16.041	730.449	730.500
	19632.300	16.041	730.488	730.539
E. Org. Pier 2	19601.120	16.041	730.464	730.506
	19642.300	16.041	730.467	730.529
	19611.120	16.041	730.476	730.507
	19652.300	16.041	730.463	730.514
	19621.120	16.041	730.484	730.500
	19662.300	16.041	730.475	730.492
	19632.620	16.041	730.488	730.488
	19673.800	16.041	730.461	730.451
	19642.620	16.041	730.487	730.496
	19683.800	16.041	730.444	730.453
E. Org. E. Abut.	19652.620	16.041	730.483	730.502
	19693.800	16.041	730.424	730.443
	19662.620	16.041	730.474	730.507
	19703.800	16.041	730.400	730.432
	19672.620	16.041	730.462	730.496
	19713.800	16.041	730.372	730.406
	19682.620	16.041	730.446	730.474
	19723.800	16.041	730.340	730.367
	19692.370	16.041	730.418	730.418
	19737.550	16.041	730.290	730.290

Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
E. Org. P. Abut.	19495.606	9.625	730.235	730.235
	19503.842	3.208	730.350	730.350
	19512.078	3.208	730.391	730.391
	19520.314	9.625	730.358	730.358
	19505.606	9.625	730.288	730.301
E. Org. Pier 1	19513.842	3.208	730.399	730.413
	19522.078	3.208	730.437	730.450
	19530.314	9.625	730.400	730.414
	19515.606	9.625	730.336	730.358
	19523.842	3.208	730.445	730.466
	19532.078	3.208	730.479	730.501
	19540.314	9.625	730.439	730.461
	19525.606	9.625	730.381	730.403
	19533.842	3.208	730.486	730.509
	19542.078	3.208	730.517	730.540
E. Org. Pier 2	19550.314	9.625	730.474	730.497
	19535.606	9.625	730.421	730.437
	19543.842	3.208	730.524	730.540
	19552.078	3.208	730.552	730.568
	19560.314	9.625	730.506	730.522
	19545.606	9.625	730.458	730.467
	19553.842	3.208	730.557	730.585
	19562.078	3.208	730.582	730.590
	19570.314	9.625	730.533	730.541
	19559.356	9.625	730.503	730.503
E. Org. Pier 2	19567.592	3.208	730.597	730.597
	19575.828	3.208	730.618	730.618
	19584.064	9.625	730.584	730.584

Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
E. Org. Pier 2	19569.356	9.625	730.530	730.540
	19577.592	3.208	730.622	730.632
	19585.828	3.208	730.639	730.649
	19594.064	9.625	730.582	730.592
	19579.356	9.625	730.554	730.574
E. Org. Pier 2	19587.592	3.208	730.643	730.662
	19595.828	3.208	730.657	730.676
	19604.064	9.625	730.597	730.616
	19589.356	9.625	730.574	730.601
	19597.592	3.208	730.659	730.686
	19605.828	3.208	730.670	730.697
	19614.064	9.625	730.607	730.634
	19599.356	9.625	730.690	730.624
	19607.592	3.208	730.672	730.706
	19615.828	3.208	730.680	730.714
E. Org. Pier 2	19624.064	9.625	730.614	730.647
	19609.356	9.625	730.603	730.630
	19617.592	3.208	730.681	730.709
	19625.828	3.208	730.686	730.714
	19634.064	9.625	730.616	730.644
	19619.356	9.625	730.611	730.632
	19627.592	3.208	730.687	730.708
	19635.828	3.208	730.688	730.709
	19644.064	9.625	730.615	730.636
	19629.356	9.625	730.616	730.627
E. Org. Pier 2	19637.592	3.208	730.688	730.699
	19645.828	3.208	730.686	730.698
	19654.064	9.625	730.610	730.622
	19640.856	9.625	730.616	730.616
	19649.092	3.208	730.685	730.685
E. Org. Pier 2	19657.328	3.208	730.679	730.679
	19665.564	9.625	730.600	730.600

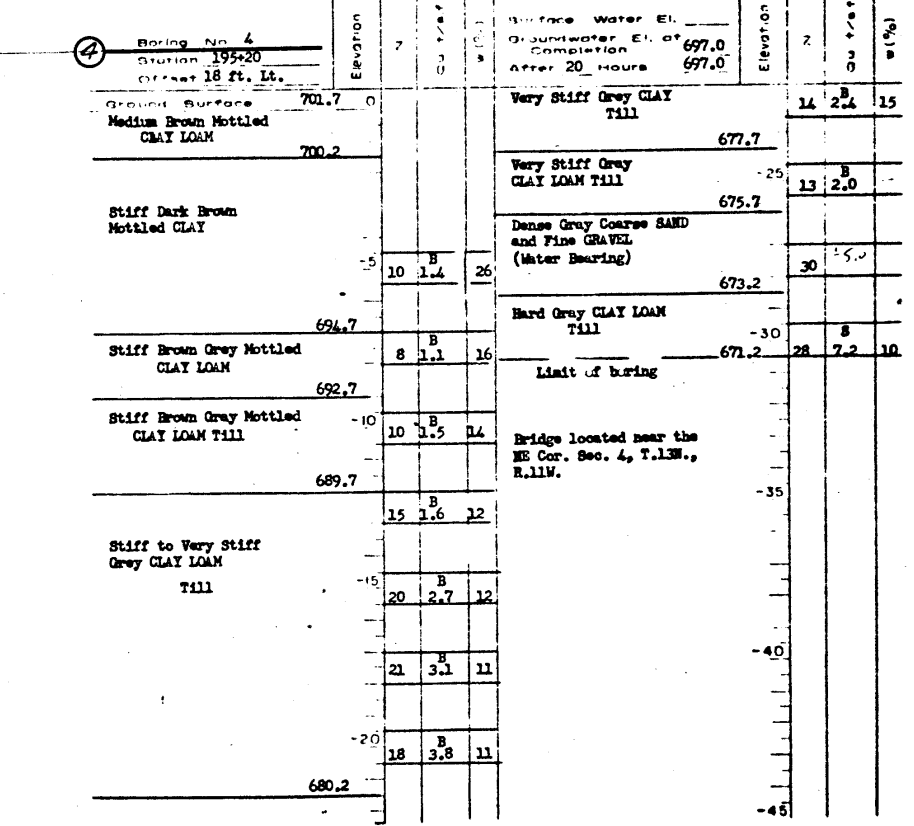
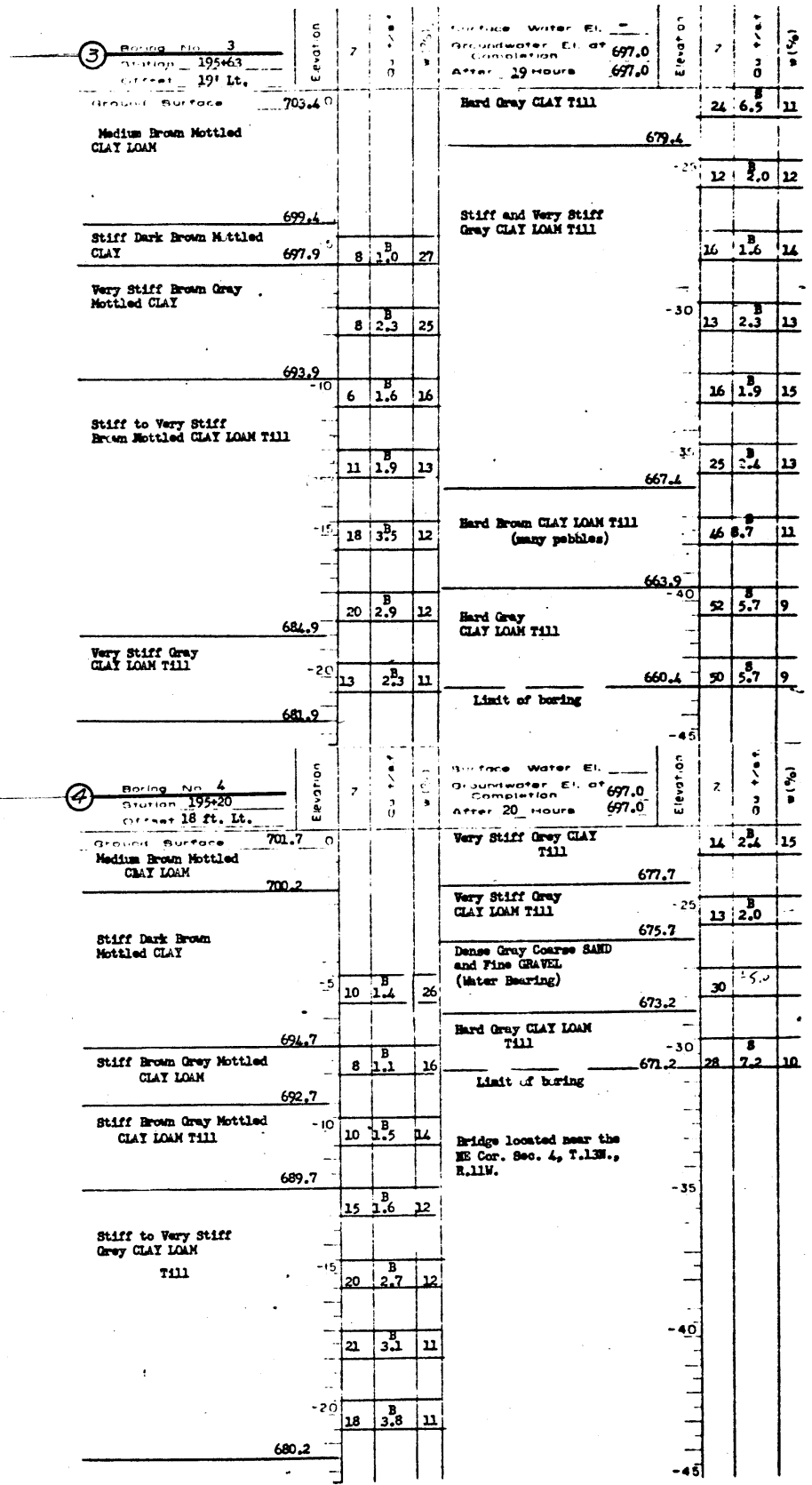
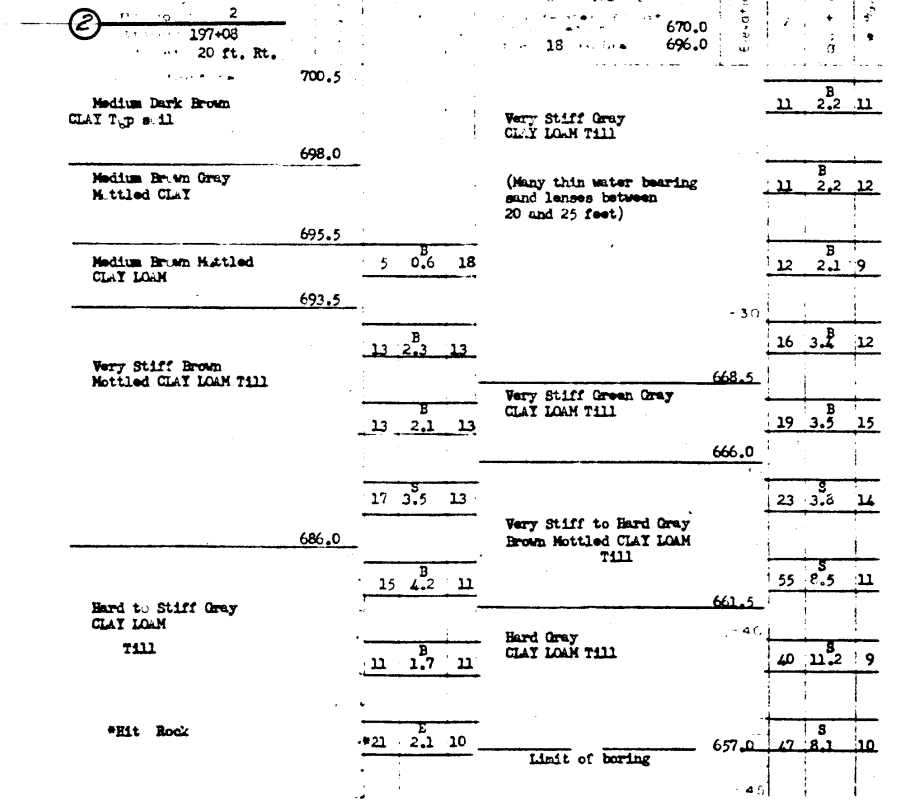
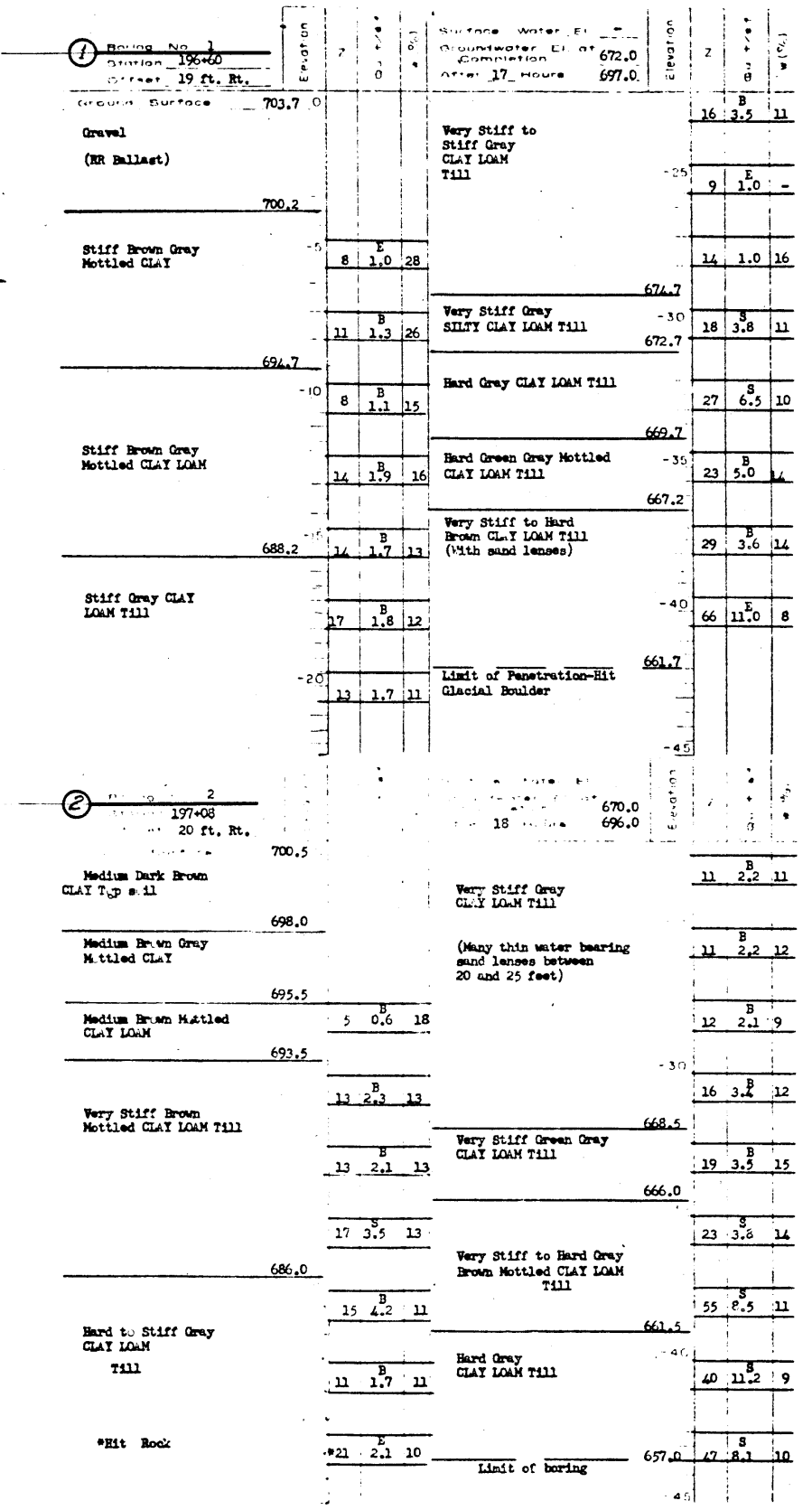
Beam	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
E. Org. Pier 2	19650.856	9.625	730.612	730.618
	19659.092	3.208	730.678	730.684
	19667.328	3.208	730.669	730.675
	19675.564	9.625	730.587	730.593
	19660.856	9.625	730.605	730.618
E. Org. Pier 2	19669.092	3.208	730.667	730.680
	19677.328	3.208	730.655	730.668
	19685.564	9.625	730.569	730.582
	19670.856	9.625	730.593	730.615
	19679.092	3.208	730.652	730.674
	19687.328	3.208	730.638	730.659
	19695.564	9.625	730.548	730.570
	19680.856	9.625	730.578	730.600
	19689.092	3.208	730.634	730.656
	19697.328	3.208	730.616	730.638
E. Org. Pier 2	19705.564	9.625	730.524	730.546
	19690.856	9.625	730.559	730.577
	19699.092	3.208	730.612	730.630
	19707.328	3.208	730.590	730.609
	19715.564	9.625	730.495	730.513
	19704.606	9.625	730.526	730.526
	19712.842	3.208	730.575	730.575
	19721.078	3.208	730.549	730.549
	19729.314	9.625	730.449	730.449

DESIGNED *L. J. Malin*  
CHECKED *Bob Chilton*  
DRAWN *L. Wanless*  
CHECKED *B.C.*

EXAMINED *Carl Hummer*  
PASSED  
APPROVED  
MARCH 25 1965

ELEVATIONS  
S.D.I.P.T. 134-5EC. 101UBP  
EDGAR COUNTY  
STA. 196+1240

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS



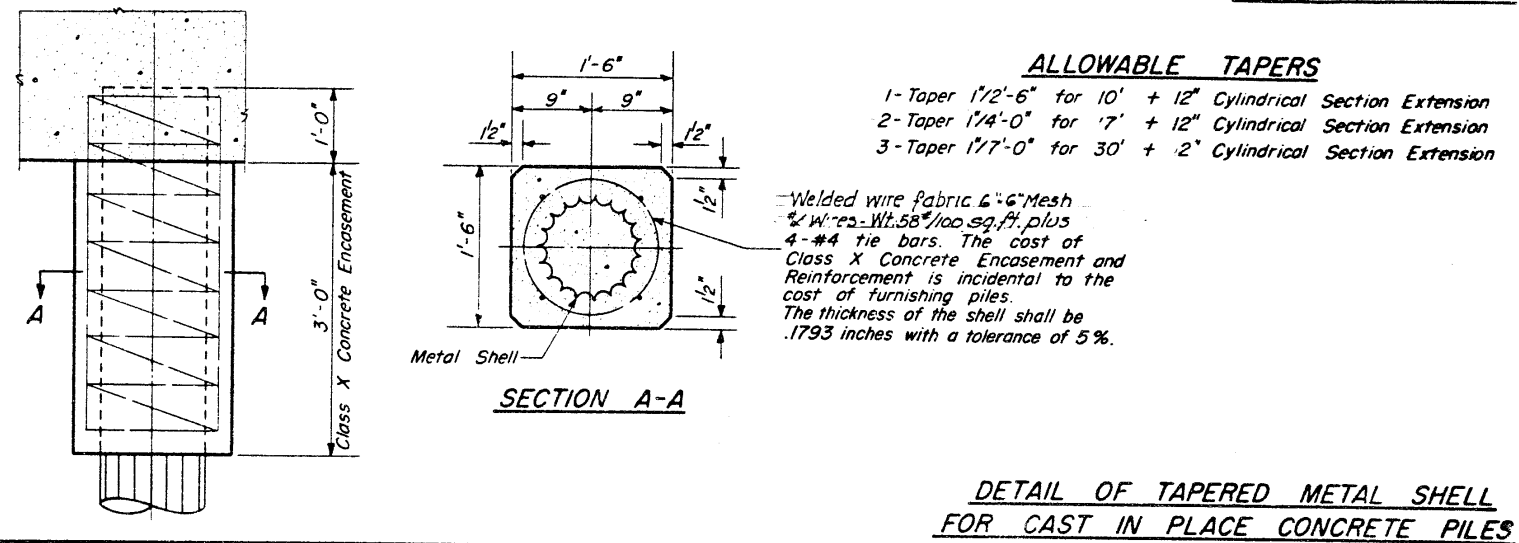
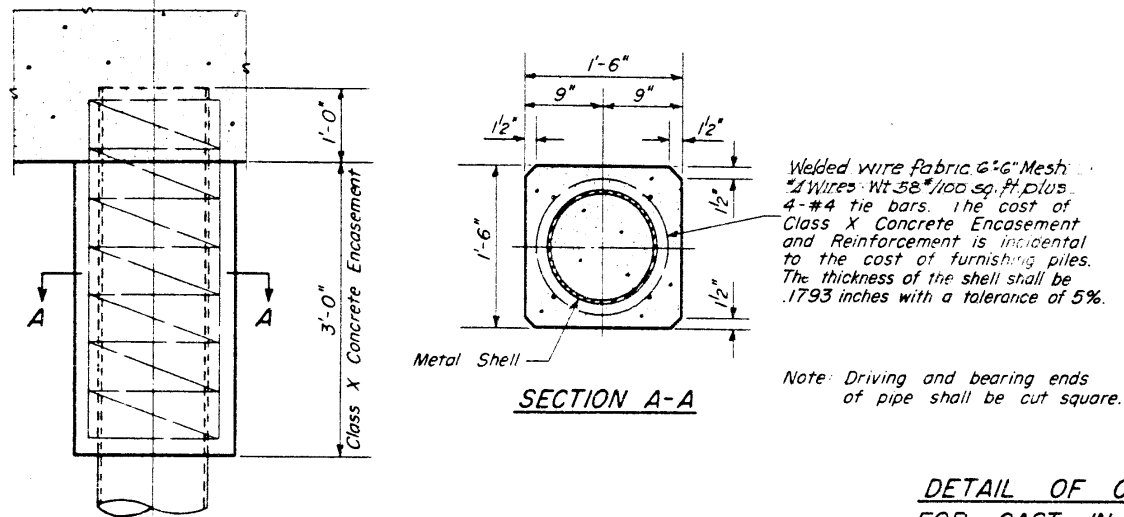
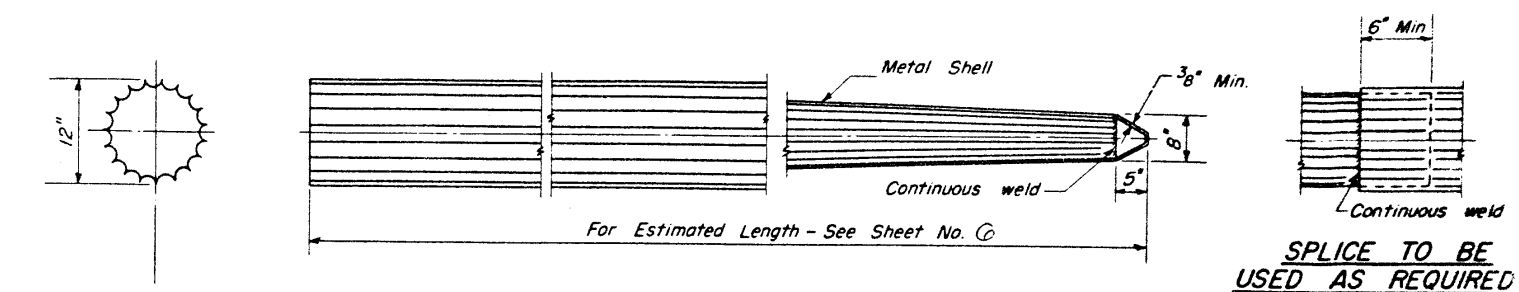
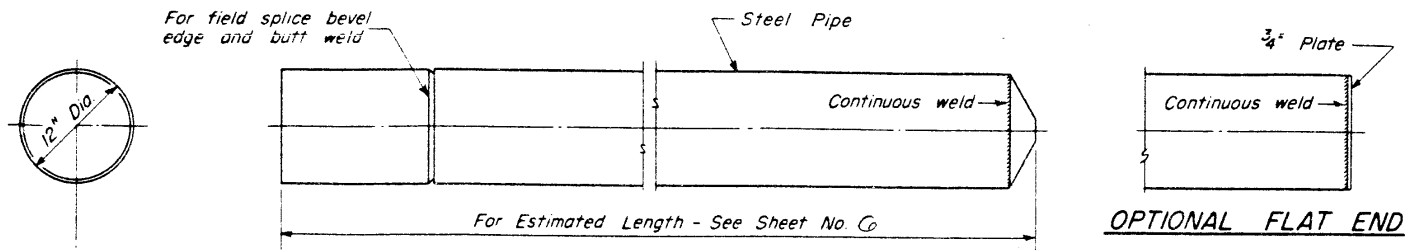
DESIGNED *J. F. Madonia*  
CHECKED *Bob Chilton*  
DRAWN *Jacobs*  
CHECKED *B.C.*

EXAMINED *Carl Hummer*  
PASSED  
APPROVED  
CHIEF HIGHWAY ENGINEER

MARCH 25 1966

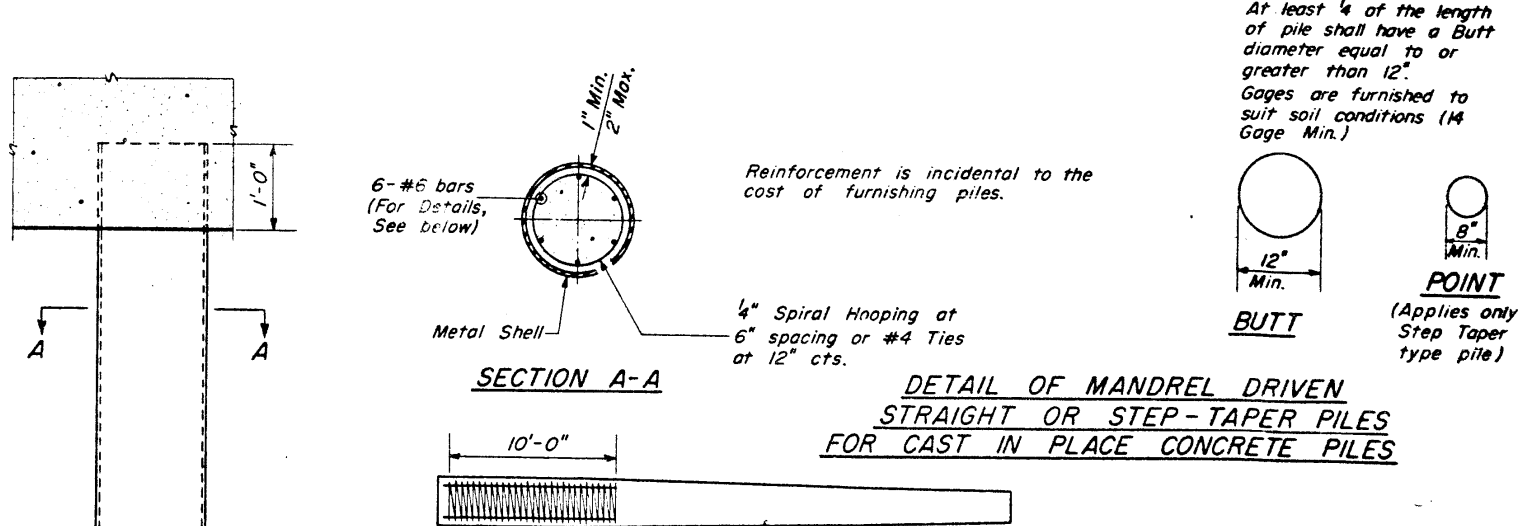
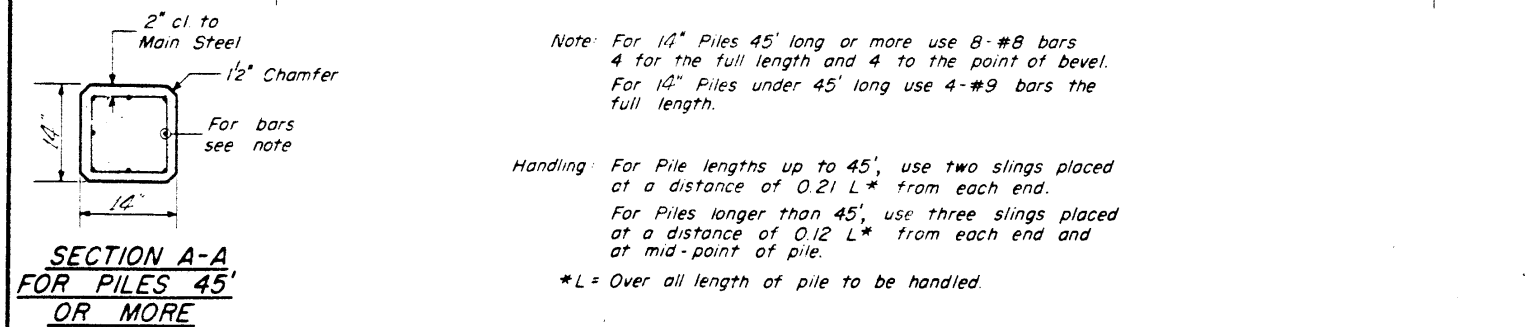
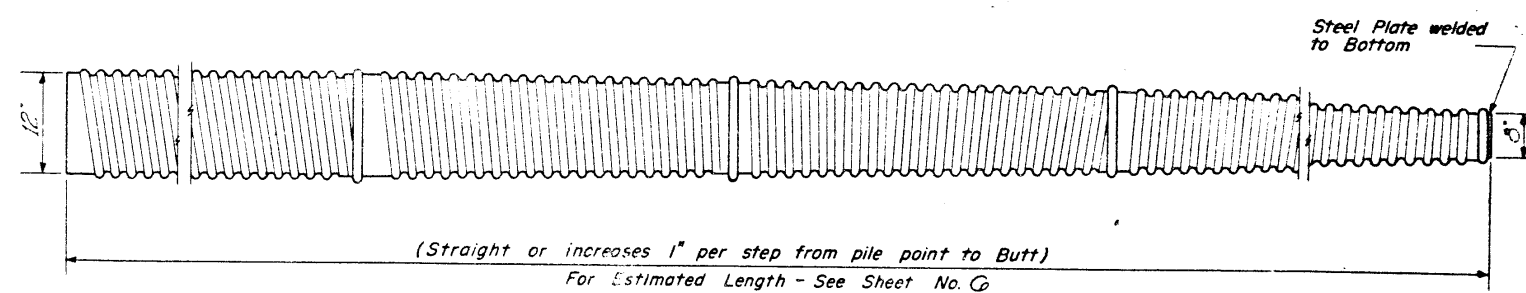
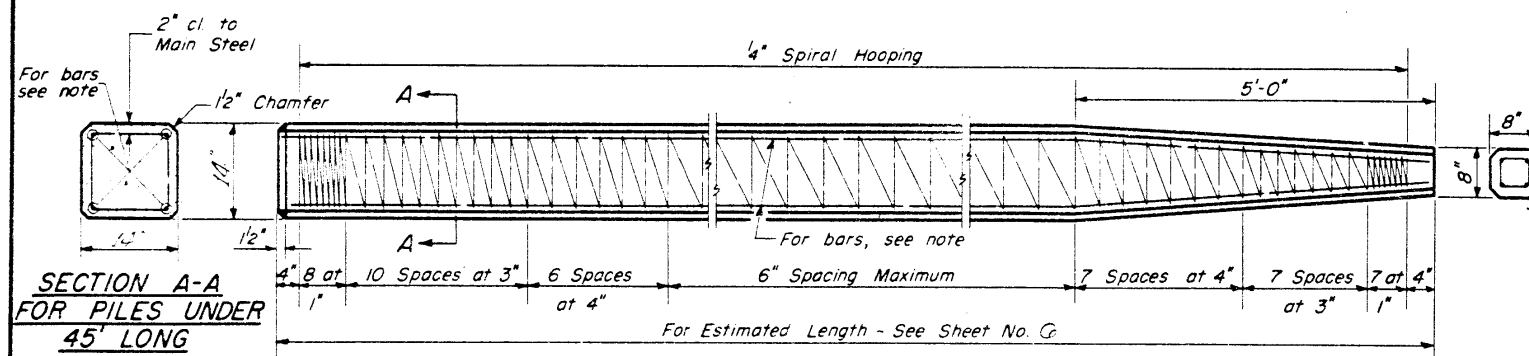
N - Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".  
Cu - Unconfined Compressive Strength - 1/2"  
w - Water Content - percentage of oven dry weight - %  
Type failure:  
B - Bulge Failure  
S - Shear Failure  
E - Estimated Value

BORINGS  
3.01 P.T. 134 - SEC. 101VBR  
EDGAR COUNTY  
STA. 196+1246



DETAIL OF CYLINDRICAL STEEL SHELL  
FOR CAST IN PLACE CONCRETE PILES

DETAIL OF TAPERED METAL SHELL  
FOR CAST IN PLACE CONCRETE PILES



DESIGNED *A. J. Madson*  
CHECKED *Bob Chilton*  
P.G. Barnett  
DRAWN *W. A. Sausaman*  
CHECKED *B. C.*

MARCH 25 1965

EXAMINED *Carl Trummel*  
PASSED  
APPROVED

ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES

ENGINEER OF DESIGN

CHIEF HIGHWAY ENGINEER