

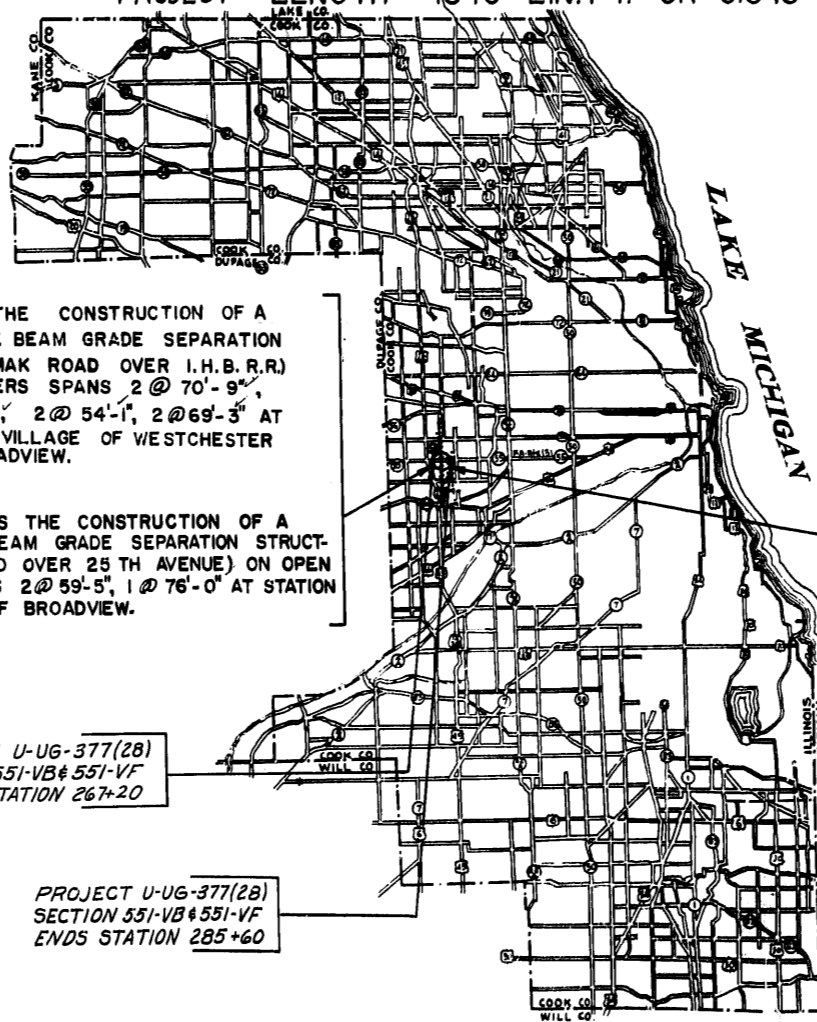
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
SBI 55	551-VB	Cook	9	1
S. P. R. REG. NO. 4 ILLINOIS PROJECT U-UG-377(28)			57	

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

DISTRICT 10
S.B.I. ROUTE 55 (F.A. ROUTE 131) SECTION 551-VB & 551-VF
CERMAK ROAD GRADE SEPARATION
OVER I.H.B. R.R.
PROJECT U-UG-377 (28)
COOK COUNTY

GROSS LENGTH 1840 LIN. FT.
 PROJECT LENGTH 1840 LIN. FT. OR 0.348 MILES



SECTION 551-VB INCLUDES THE CONSTRUCTION OF A CONTINUOUS WIDE FLANGE I BEAM GRADE SEPARATION STRUCTURE (CARRYING CERMAK ROAD OVER I.H.B. R.R.) ON OPEN ABUTMENTS AND PIERS SPANS 2 @ 70'-9", 1 @ 59'-1", 1 @ 90'-3", 2 @ 47'-3", 2 @ 54'-1", 2 @ 69'-3" AT STATION 272+40.47 IN THE VILLAGE OF WESTCHESTER AND THE VILLAGE OF BROADVIEW.

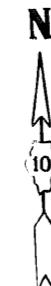
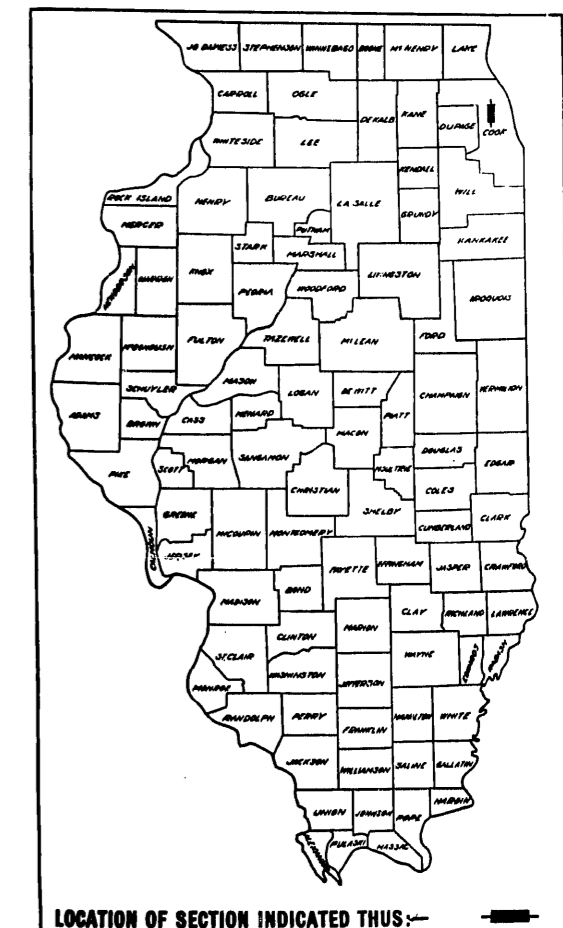
SECTION 551-VB ALSO INCLUDES THE CONSTRUCTION OF A CONTINUOUS WIDE FLANGE I BEAM GRADE SEPARATION STRUCTURE (CARRYING CERMAK ROAD OVER 25 TH AVENUE) ON OPEN ABUTMENT AND PIERS, SPANS 2 @ 59'-5", 1 @ 76'-0" AT STATION 283+25.66 IN THE VILLAGE OF BROADVIEW.

PROJECT U-UG-377(28)
 SECTION 551-VB & 551-VF
 BEGINS STATION 267+20

PROJECT U-UG-377(28)
 SECTION 551-VB & 551-VF
 ENDS STATION 285+60

SECTION 551-VF INCLUDES THE FURNISHING, FABRICATING SHOP PAINTING AND DELIVERY OF THE STRUCTURAL STEEL f.o.b. THE UNLOADING POINT AT BROADVIEW, FOR A 10 SPAN CONTINUOUS WIDE FLANGE I BEAM STRUCTURE (CARRYING CERMAK ROAD OVER I.H.B. R.R.) ON OPEN ABUTMENT AND PIERS, SPAN 2 @ 70'-9", 1 @ 59'-1", 1 @ 90'-3", 2 @ 47'-3", 2 @ 54'-1", 2 @ 69'-3" AT STATION 272+40.47 IN THE VILLAGE OF WESTCHESTER AND THE VILLAGE OF BROADVIEW.

SECTION 551-VF ALSO INCLUDES THE FURNISHING, FABRICATING, SHOP PAINTING AND DELIVERY OF THE STRUCTURAL STEEL f.o.b. THE UNLOADING POINT AT BROADVIEW, FOR A 3 SPAN CONTINUOUS WIDE FLANGE I BEAM STRUCTURE (CARRYING CERMAK ROAD OVER 25 TH AVENUE) ON OPEN ABUTMENTS AND PIERS, SPANS, 1 @ 76'-0", 2 @ 59'-5" AT STATION 283+25.66 IN THE VILLAGE OF BROADVIEW.



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

SUBMITTED: 9-25-54 *J. J. Sutthill* DISTRICT ENGINEER

EXAMINED: January 25, 1961 *William C. Quaddell* CHIEF ENGINEER OF PLANS AND CONTRACTS

PASSED: January 25, 1961 *Thomas* ENGINEER OF DESIGN

APPROVED: January 25, 1961 *W. H. ...* CHIEF HIGHWAY ENGINEER

APPROVED: January 25, 1961 *...* DIRECTOR

DEPARTMENT OF COMMERCE
 BUREAU OF PUBLIC ROADS

APPROVED DATE

DIVISION ENGINEER

PLANS PREPARED BY BUREAU OF DESIGN *Wm. D. Brown*
 EXAMINED BY BUREAU OF CONSTRUCTION *Wm. D. Brown*
 EXAMINED BY BUREAU OF MAINTENANCE *G. W. Albrecht*
 EXAMINED BY BUREAU OF TRAFFIC *R. J. Newell*
 ENTIRE SECTION INSPECTED AND APPROVED AS TO POLICY
 DISTRICT ENGINEER *J. P. Sullivan*

DATE 9-3-59
 DATE 7-8-57
 DATE 7-8-59
 DATE 9-3-59
 DATE 9-3-59

SUMMARY OF QUANTITIES

SECTION	551-VF	551-VB
DATE	7-8-57	9-3-59
PROJECT	COOK	
SHEET NO.	27	28
TOTAL SHEETS	27	28
STA	267+20	285+60
U.S. BUREAU OF PUBLIC ROADS, DIV. 4		

INDEX OF SHEETS

SHEET NO.

SEC. 551 - VF	SEC. 551 - VB	
1.	1.	COVER SHEET
2.	2.	INDEX OF SHEETS, SUMMARY OF QUANTITIES, SIGNATURE SHEET
	3.	TYPICAL CROSS-SECTIONS
	4.-5.	GENERAL PLAN OF IMPROVEMENT
	6.	EXISTING TOPOGRAPHY ALONG CERMAK ROAD
	7.	KNOWN EXISTING UTILITIES ON CERMAK ROAD
	8.-9.	PLAN AND PROFILE SHEETS OF VIADUCT APPROACHES
	10.	BITUMINOUS SURFACING PLAN SHEET
	11.	TEMPORARY DETOUR SERVICE ROAD ACROSS I.H.B.R.R.
	12.	DRAINAGE PLAN AND PROFILE SHEET OF VIADUCT APPROACHES
	13.	DRAINAGE PLAN SHEET OF RETAINING WALL
	14.	SUPPLEMENTARY DETAILS OF BRIDGE APPROACH SLABS
	15.-22.	CROSS-SECTIONS ON CERMAK ROAD
	23.-25.	CROSS-SECTIONS ON SERVICE ROADS
	26. & 26A	STANDARD 2138-1, STANDARD 1790F, STANDARD 2114
	27. & 27A	STANDARD 2122, STANDARD 1683-1, STANDARD 1527-2, STANDARD 2113, STANDARD 2158
	28. & 28A	STANDARD 1514R, STANDARD 1516S, STANDARD 1766-2, STANDARD 2068R
	29.	STANDARD 1686-1, STANDARD 1687-2
3.	30.	GENERAL PLAN AND ELEVATION OF CERMAK ROAD BRIDGE OVER GARDNER ROAD, I.H.B.R.R., AND 25TH. AVENUE
	31.	SUPERSTRUCTURE OVER GARDNER ROAD
	32.	SUPERSTRUCTURE BETWEEN I.H.B.R.R. AND GARDNER ROAD
	33.	SUPERSTRUCTURE OVER I.H.B.R.R.
	34.	SUPERSTRUCTURE OVER 25TH. AVENUE
4.	35.	STRUCTURAL STEEL LAYOUT AND DETAILS- CERMAK ROAD OVER GARDNER ROAD
5.	36.	STRUCTURAL STEEL DETAILS BETWEEN I.H.B.R.R. AND GARDNER ROAD
6.	37.	STRUCTURAL STEEL DETAILS - CERMAK ROAD OVER I.H.B.R.R.
7.	38.	STRUCTURAL STEEL LAYOUT AND DETAILS- CERMAK ROAD OVER 25TH. AVENUE
8.	39.	EXPANSION GUARDS
9.	40.	FABRICATION DIAGRAM
	41.	HANDRAIL DETAILS- CERMAK ROAD OVER 25TH. AVENUE
	42.	HANDRAIL DETAILS- CERMAK ROAD OVER GARDNER ROAD AND I.H.B.R.R.
	43.	ABUTMENTS- BRIDGE OVER GARDNER ROAD AND I.H.B.R.R.
	44.	ABUTMENTS- BRIDGE OVER 25TH. AVENUE
	45.	PIERS, NO. 1 AND NO. 2
	46.	PIER, NO. 3
	47.	PIERS, NO. 4 AND NO. 5
	48.	PIER NO. 6
	49.	PIERS, NO. 7 AND NO. 8
	50.	PIER NO. 9
	51.	PIERS, NO. 10 AND NO. 11
	52.	DETAILS OF RETAINING WALL
	53.-56.	SOIL BORING DATA
	57.	PILE DETAILS

Note:
 Breakdown between U & UG Funds
~~U = 46%~~
~~UG = 54%~~

	U	UG
6707	36%	64%
X231	100%	None
X531	42%	58%

ITEM	UNIT	BRIDGE ITEMS	ROAD ITEMS	TOTAL
080008	COMBINATION CONCRETE CURB & GUTTER, TYPE 6	LIN. FT.	2,007	2,007
020001	TRENCH BACKFILL	CU. YDS.	169	169
032006	P. C. CONCRETE BASE COURSE (9")	SQ. YDS.	4,498	4,498
048012	P. C. CONCRETE PAVEMENT (16 1/2"-12"-16 1/2")	SQ. YDS.	872	872
046001	BITUMINOUS MATERIALS (PRIME COAT)	GALS.	500	500
046002	AGGREGATE (PRIME COAT)	TONS.	10	10
046006	BITUMINOUS CONCRETE BINDER COURSE	TONS.	390	390
046007	BITUMINOUS CONCRETE SURFACE COURSE, SUB-CLASS I-II	TONS.	250	250
081004	P. C. CONCRETE MEDIAN, TYPE 4	LIN. FT.	1,003	1,003
089003	P. C. CONCRETE SIDEWALK (5")	SQ. FT.	10,030	10,030
080013	LONGITUDINAL CURB EXPANSION JOINTS	SQ. FT.	842	842
094001	STEEL PLATE BEAM GUARD RAIL	LIN. FT.	2,012.5	2,012.5
112001	SODDING	SQ. YDS.	13,737	13,737
112002	SUPPLEMENTAL WATERING	UNITS.	38	38
112004	AGRICULTURAL GROUND LIMESTONE	TONS.	8	8
024002	SUB-BASE GRANULAR MATERIAL, TYPE-A	CU. YDS.	1,211	1,211
066277	STORM SEWERS, TYPE 3, (R.C.P. CLASS III) 8"	LIN. FT.	88	88
066094	STORM SEWERS, TYPE 1, (R.C.P. CLASS III) 10"	LIN. FT.	232	232
066210	STORM SEWERS, TYPE 2, (R.C.P. CLASS II) 12"	LIN. FT.	498	498
066279	STORM SEWERS, TYPE 3, (R.C.P. CLASS III) 12"	LIN. FT.	106	106
075019	CATCH BASINS, TYPE A, 4' DIA., WITH TYPE 5 FRAME, OPEN LID	EACH	4	4
075101	INLETS, TYPE A, WITH TYPE 5 FRAME, OPEN LID	EACH	4	4
075233	MANHOLES, TYPE A, 4' DIA., WITH TYPE 1 FRAME, CLOSED LID	EACH	5	5
082003	CLASS X CONCRETE	CU. YDS.	3307.0	2110.6
059001	REINFORCEMENT BARS	LBS.	514,250	209,962
016001	EMBANKMENT	CU. YDS.		123,779
075319	CATCH BASINS, TYPE A (SPECIAL), 4' DIA., WITH TYPE 5 FRAME, OPEN LID	EACH	2	2
063020	PERFORATED CORRUGATED METAL PIPE, 6"	LIN. FT.	1,440	1,440
019001	POROUS GRANULAR EMBANKMENT	CU. YDS.	600	600
060005	FURNISHING CREOSOTED PILES, 20.1'-38'	LIN. FT.	1,000	1,000
075034	CATCH BASINS, TYPE C WITH TYPE 8 GRATE	EACH	8	8
066001	STORM SEWERS TYPE 1, 8"	LIN. FT.	1,215	1,215
066024	" " " 2, 8"	LIN. FT.	22	22
054003	ERECTING STRUCTURAL STEEL	LBS.	1,804,150	1,804,150
061001	NAME PLATES	EACH	2	2
083002	SLOPE WALL 4"	SQ. YDS.	1,524	1,524
060004	FURNISHING CREOSOTED PILES, UP TO 20'	LIN. FT.	6,870	6,870
060008	DRIVING TIMBER PILES	LIN. FT.	6,870	7,870
060044	FURNISHING CONCRETE PILES	LIN. FT.	1,722	1,722
060043	DRIVING CONCRETE PILES	LIN. FT.	1,722	1,722
201000	ALUMINUM HANDRAIL, 2 RAIL	LIN. FT.	1,665	1,665
050001	CLASS A EXCAVATION FOR STRUCTURES	CU. YDS.	1,500	5,100
060042	METAL SHOES	EACH	482	482
060047	TEST PILES (CONCRETE)	EACH	4	4
060007	TEST PILES (TIMBER)	EACH	4	4

SECTION 551-VF

054002 FURNISHING STRUCTURAL STEEL LBS. 1,804,150

NOTE: THE STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION ADOPTED JANUARY 2, 1958, SHALL GOVERN THE CONSTRUCTION OF THIS WORK.

Revised 2-24-61 - Breakdown of Funds.

AXLE LOAD LIMITS: SINGLE-14,000 LBS. TANDEM-24,000 LBS. DIVISION CLASSIFICATION: 285+60

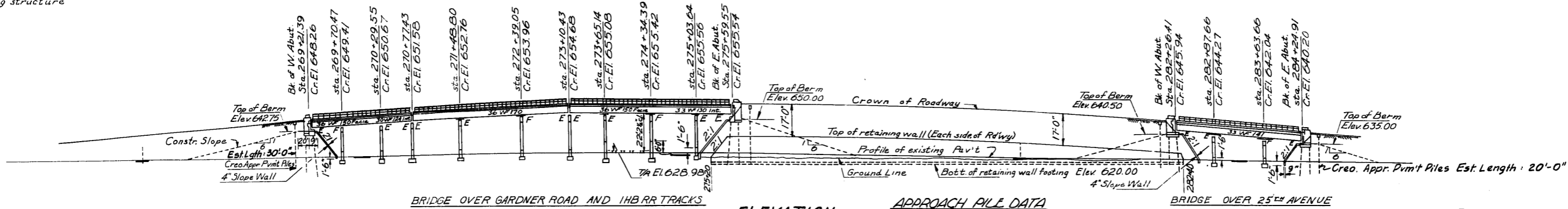
USGS BM - LaGrange 13 miles N of Ashland Ave. Crossing of C.B. & Q.R.R. 015 miles W of N.E. corner Sec. 33, T. 39 N. R. 12 E. in S.E. angle of intersection of Mannheim Road and Thirty First Street in concrete post, standard tablet stamped "Prim. Trav. Sta. No. 12 K 1924 K 50" Elev. 635.05

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551-VF	551-VB	COOK	9	3
			57	30

SHEET NO. 1
28 SHEETS

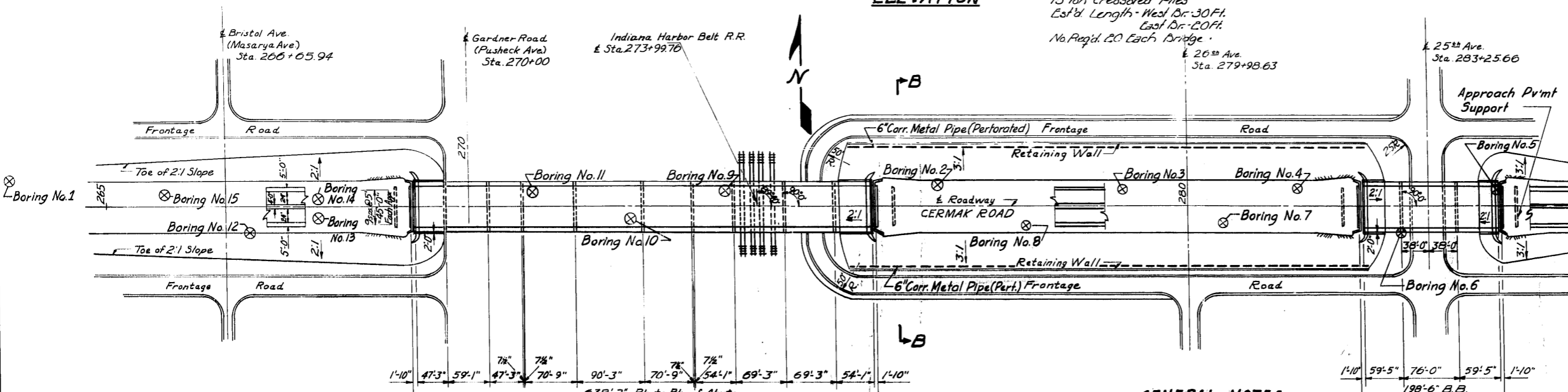
No existing structure



APPROACH PILE DATA
15 Ton Creosoted Piles
Est'd Length - West Br. 30 Ft.
Est'd Br. 20 Ft.
No Reg'd. 20 Each Bridge.

SECTION 551-VB
BILL OF MATERIAL ROAD ITEMS

ITEM	UNIT	TOTAL
Combination Conc. Curb & Gutter, Type 6	Lin. Ft.	2,007
Trench Backfill	Cu. Yd.	169
Bituminous Materials (Prime Coat), 1-1/2 Gal.	Gal.	500
P.C. Concrete Base Course 9"	Sq. Yd.	4,498
Aggregate (Prime Coat)	Ton	10
Bituminous Concrete Binder Course	Ton	390
Bituminous Concrete Surface Course	Ton	250
P.C. Concrete Median, Type 4	Lin. Ft.	1,003
P.C. Concrete Sidewalk, 5"	Sq. Ft.	10,030
Long. Curb Expansion Joints	Sq. Ft.	842
Steel Plate Beam Guard Rail	Lin. Ft.	2,012.5
Sodding	Sq. Yd.	13,737
Supplemental Watering	Unit	38
Agric. Ground Limestone	Ton	2
Sub-Base Granular Material, Type A Cu. Yd.	Cu. Yd.	1,211
Embankment	Lin. Ft.	123,779
Storm Sewers, Type 3, 8" Dia.	Lin. Ft.	80
Storm Sewers, Type 1, 10" Dia.	Lin. Ft.	232
Storm Sewers, Type 2, 12" Dia.	Lin. Ft.	498
Storm Sewers, Type 3, 12" Dia.	Lin. Ft.	106
Catch Basins, Type A, Type 5 Fr. (Special)	Each	2
Catch Basins, Type A, Type 5 Frame	Each	4
Inlets, Type A, Type 5 Frame	Each	4
Manholes, Type A, Type 1 Fr. 4' Dia.	Each	5
Reinforcement Bars	Lbs.	209,962
Class X Concrete	Cu. Yds.	2,110.6
P.C. Concrete Pavement (1 1/2" - 12" - 1 1/2")	Sq. Yds.	872
6" Corr. Metal Pipe - Perforated	Lin. Ft.	1,440
Porous Granular Embankment	Cu. Yds.	600
Creosoted Piles 20' x 28"	Lin. Ft.	1,000
Catch Basins Type C with Type B Grate	Each	8
Storm Sewers Type 1, 8"	Lin. Ft.	12,72
Storm Sewers Type 2, 8"	Lin. Ft.	12,72



GENERAL NOTES

Class X Concrete shall be used throughout.
Coarse aggregate which is to be used in end posts and parapet wall must be absolutely free of chert, mica, 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, #4 wires, weighing 58# per 100 sq. ft.

BILL OF MATERIAL BRIDGE ITEMS - 551-VF

Item	Super	Sub	Total
* Class A Excav. for Struct.	Cu. Yds.	1,500	5,100
Erect. Structural Steel	Lbs.	1,804,150	1,804,150
Class X Concrete	Cu. Yds.	1,747.2	3,307.0
Aluminum Handrail	Lin. Ft.	1,665	1,665
Reinforcement Bars	Lbs.	301,780	514,250
Creosoted Piles (up to 20')	Lin. Ft.	6,870	6,870
Test Piles (Creosoted Timber)	Each	4	4
Concrete Piles	Lin. Ft.	1,722	1,722
Test Piles (Concrete)	Each	4	4
Metal Shoes	Each	482	482
Name Plates	Each	2	2
Slope Wall	Sq. Yds.	1,524	1,524

* Includes Class A Excavation for Retaining Wall

SECTION 551-VF

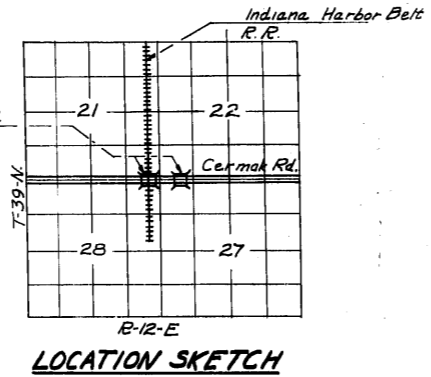
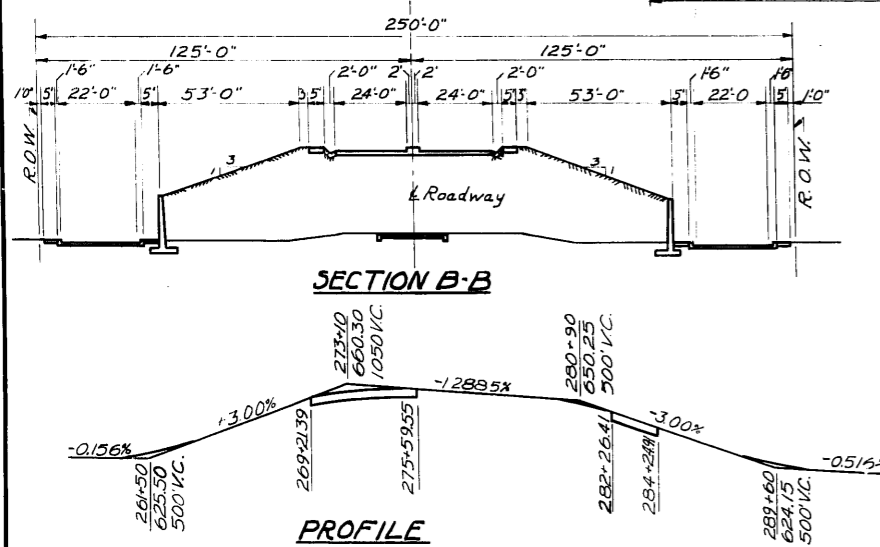
Furnish Struct. Steel	Lbs.	1,804,150
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PROJECT U-116 377(28)
GENERAL PLAN & ELEVATION

CERMAK ROAD OVER
GARDNER ROAD - IHB RR & 25TH AVE.

SBI Rt. 55 - SECTION 551-VBF

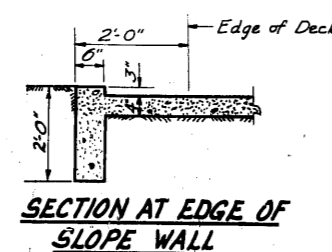
COOK COUNTY
STATION 274 + 34.38



STRESSES

f _c Super f 308	14,000 psi.
f _c Retaining Wall	10,000 psi.
f _s Reinforcement Bars	20,000 psi.
f _s Structural Steel	18,000 psi.
n	10
f _e All Footings	75 p.s.i.

LOADING H20-S16-44

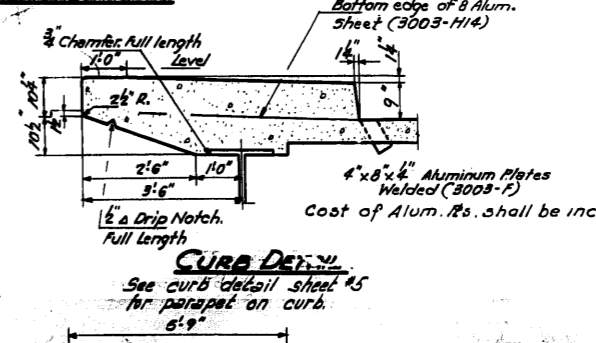
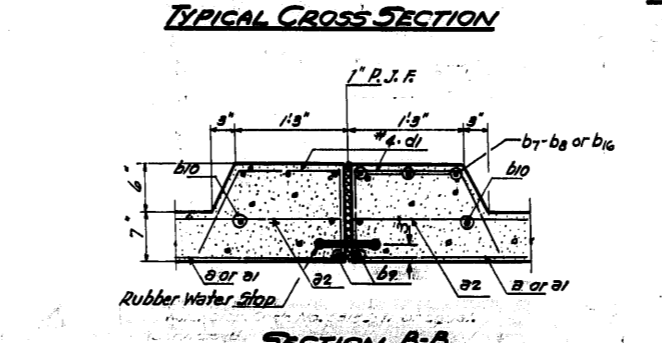
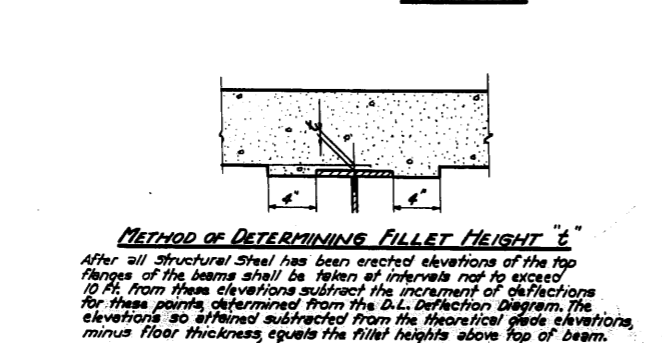
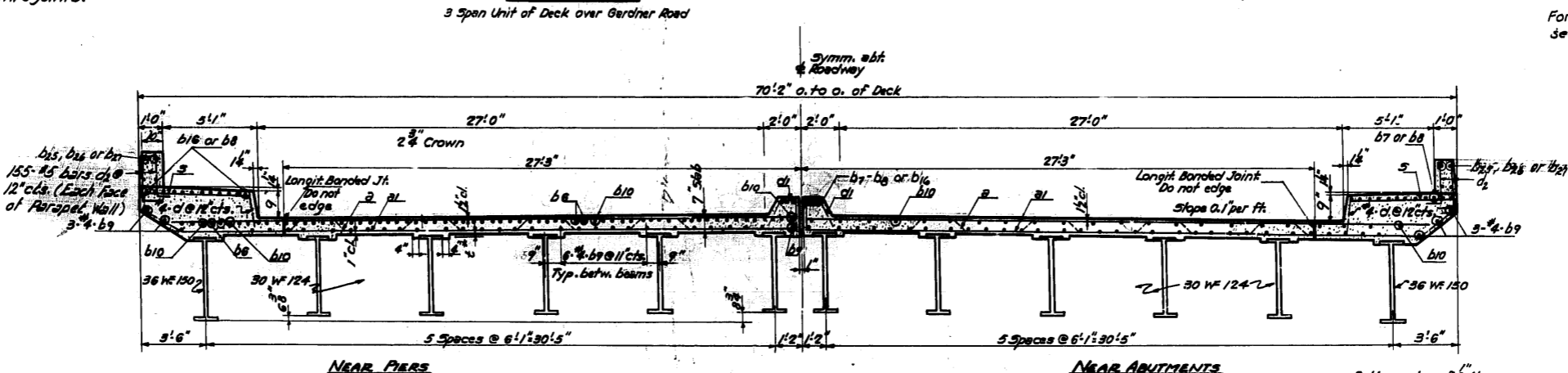
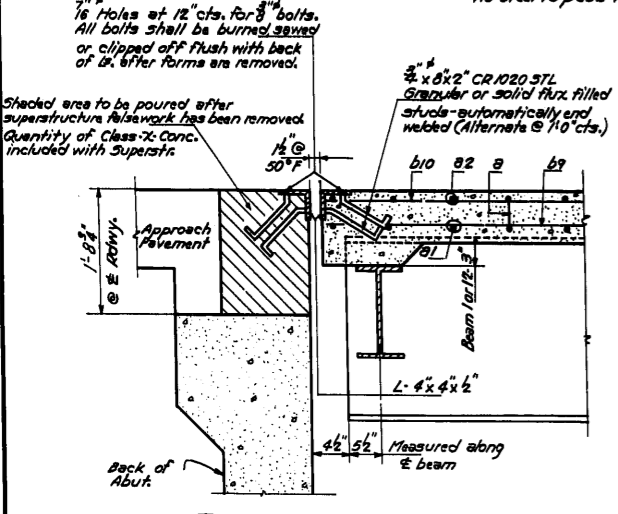
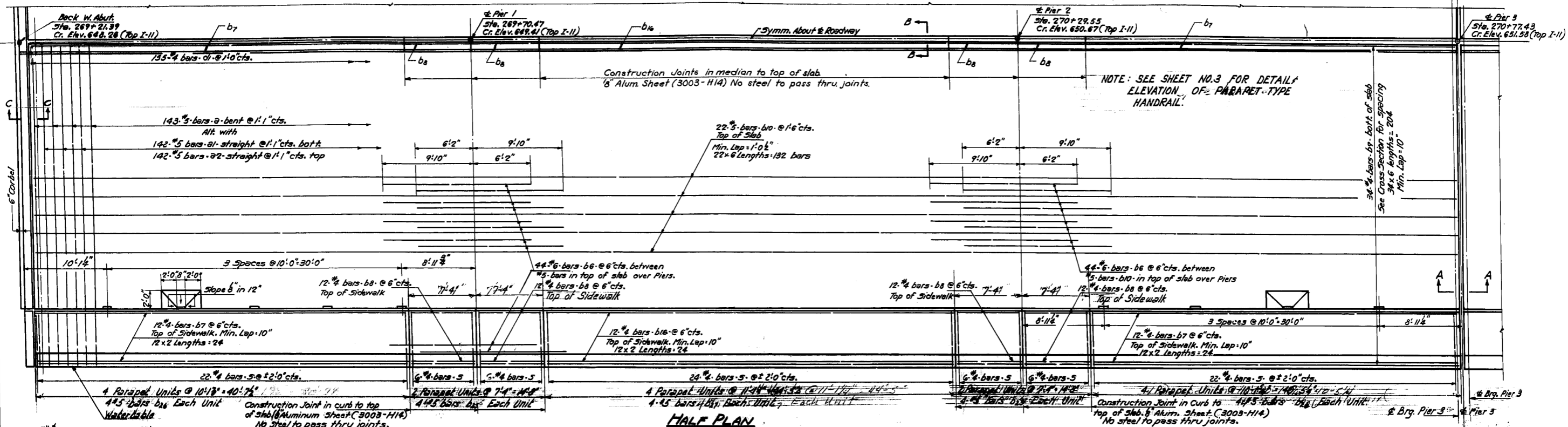


DESIGNED	Ronald C. Pity	EXAMINED	July 29 1957
CHECKED	W. J. Jordan	PASSED	
DRAWN	R.C.P. F. Bahr	APPROVED	R.R. Bartholomew
CHECKED	J.K.J.		

Rev. 12-30-60 Removal of F.I., increased slab to 7", raised super 1" to meet grade, slab reinforcement [18(59)] & Parapet Rail R.R.M. & T.K. Revised 7/11/61 J.E.C. QUANTITY Reinforcement Bars changed from 312,970 Lbs. (Sub. Sh.) to 212,960 & from 314,250 Lbs. (Total) to 514,240 Lbs.

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
S.A. 55	551-VB	COOK	57	31	28 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



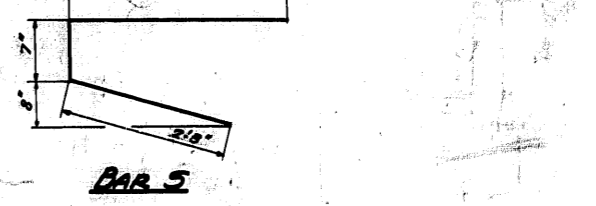
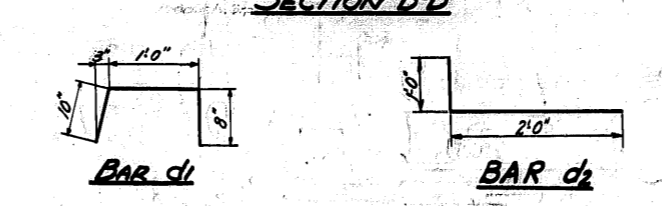
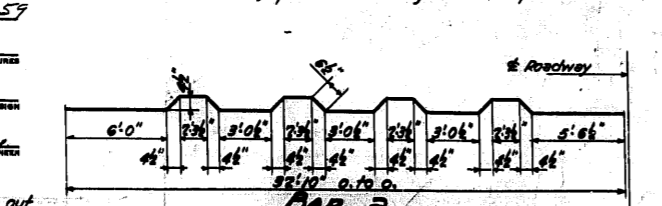
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b	286	#5	34'2"	~
b1	284	5	32'10"	~
b2	284	5	33'10"	~
b6	176	6	16'0"	~
b7	120	4	20'8"	~
b8	120	4	7'1"	~
b9	204	4	26'6"	~
b10	132	5	26'8"	~
b16	60	4	22'9"	~
b25	32	5	7'0"	~
b26	64	5	9'6"	~
b27	32	5	10'9"	~
d	310	4	1'2"	~
d1	310	4	2'6"	~
d2	620	5	3'11"	~
s	184	4	8'7"	~
Class-7 Concrete				Cu. Yds. 325.0
Reinforcement Bars				Lbs. 50,390
* Structural Steel				Lbs. 293740

DESIGNED *Ronald C. Pitz*
CHECKED *Shay K. Jacobson*
DRAWN *R.C.P. M. Miller*
CHECKED *S.K.S.*

EXAMINED *[Signature]*
PASSED *[Signature]*
APPROVED *[Signature]*

July 29 1957

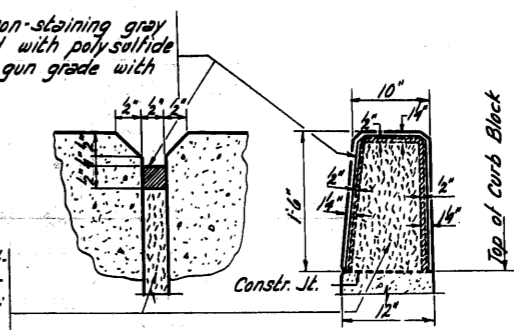
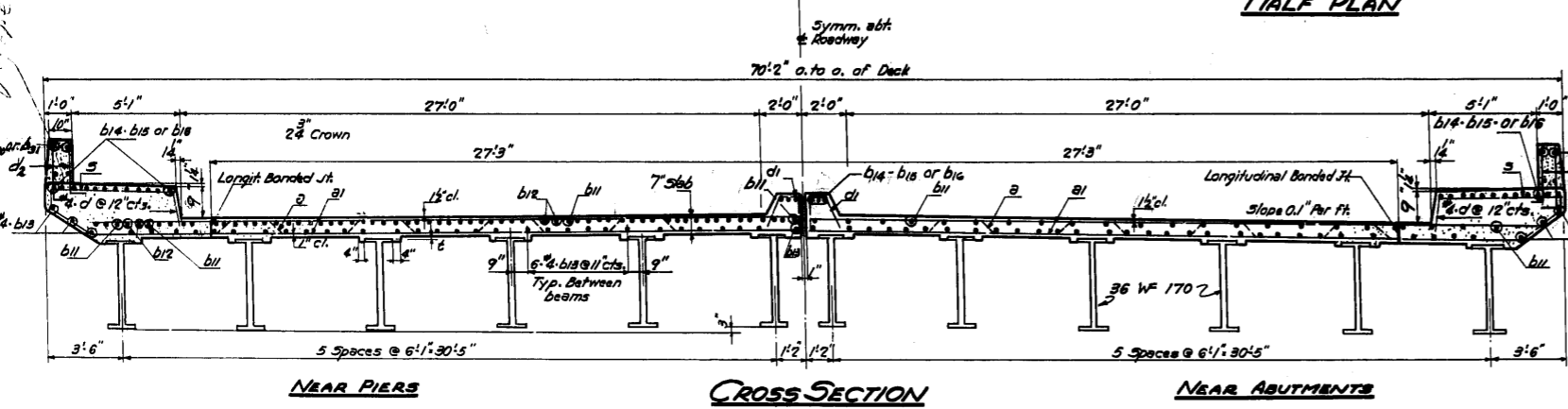
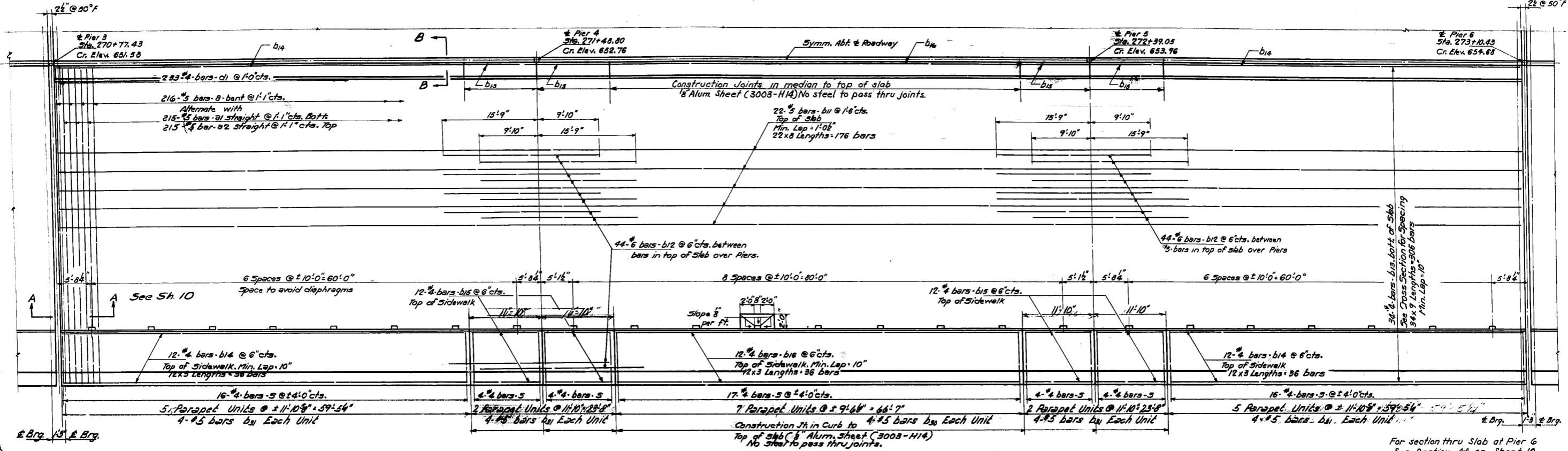


SUPERSTRUCTURE
THREE SPAN UNIT OF DECK
OVER GARDNER ROAD
S.B.L. RT. 55-SEC. 551-VBF
COOK COUNTY
STA. 274+34.38

* See Note on Sheet 3

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

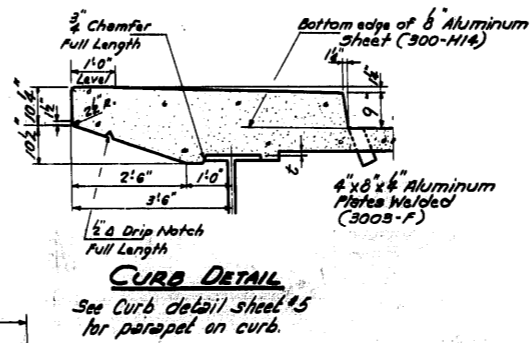
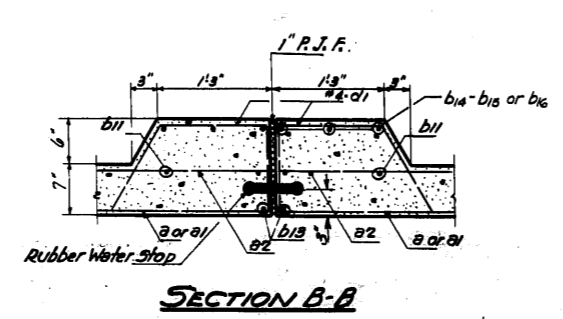
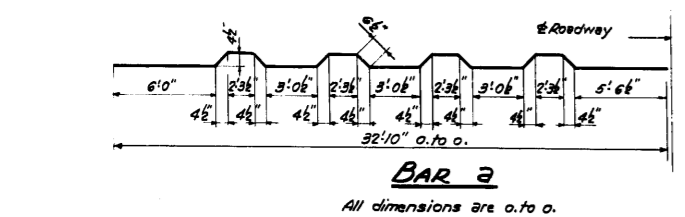
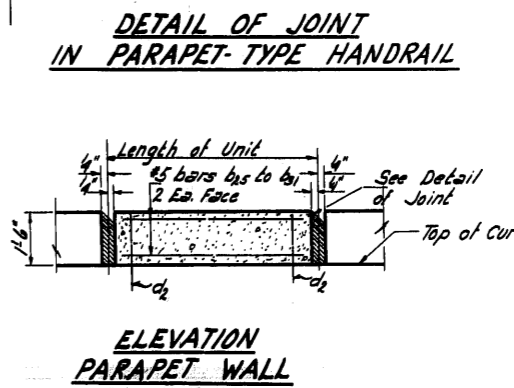
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. J
S. I. 55	551-VB	Cook	57	32	28 SHEETS
F.A.					
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT.			



BILL OF MATERIAL

BAR	No.	SIZE	LENGTH	SHAPE
a	432	#5	34'2"	~
a1	430	5	32'10"	—
a2	430	5	38'10"	—
b11	362	5	30'0"	—
b12	176	6	25'7"	—
b13	672	4	26'7"	—
b14	180	4	20'4"	—
b15	120	4	11'7"	—
b16	90	4	22'9"	—
b30	56	5	9'0"	—
b31	112	5	11'6"	—
c	466	4	1'2"	—
d1	466	4	2'6"	—
d2	932	5	3'0"	—
e	260	4	8'7"	—
Class 'X' Concrete		Cu. Yds. 481.7		
Reinforcement Bars		Lbs. 86,100		
Structural Steel		Lbs. 385590		

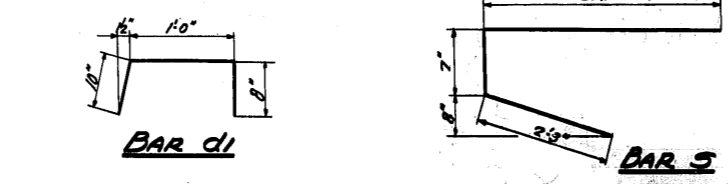
* Weight of Rockers, Bearing Plates, Lead Plates and Anchor Bolts included as Structural Steel. Weight of Expansion Guards not included.



DESIGNED *Ronald C. Pitz*
CHECKED *S. Royal K. Jankovich*
DRAWN *R.C.P.*
CHECKED *S. Royal K. Jankovich*

EXAMINED *M. J. ...*
PASSED *E. S. ...*
APPROVED *R. R. ...*

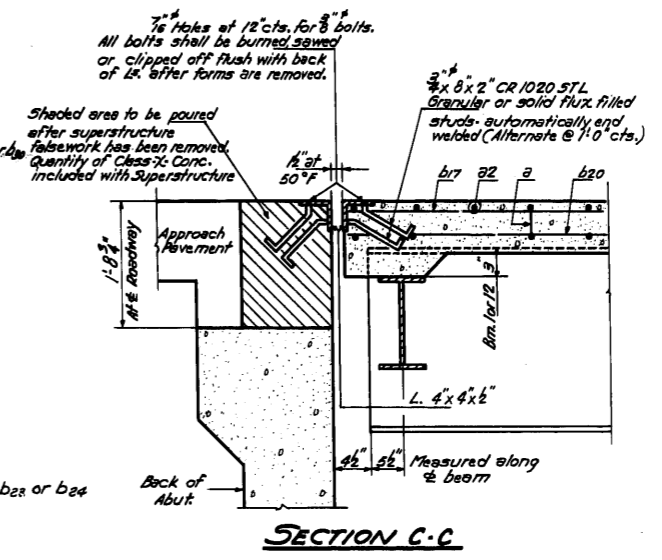
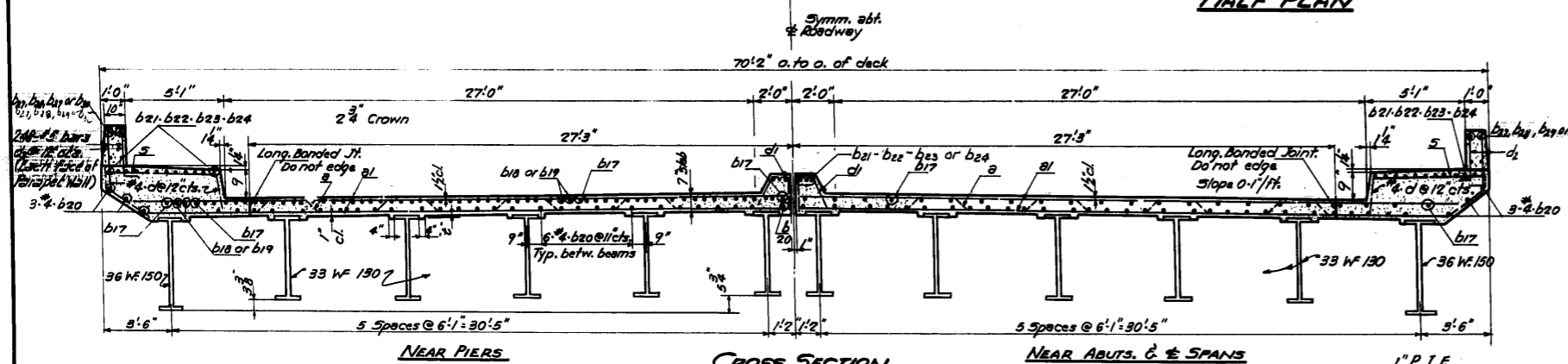
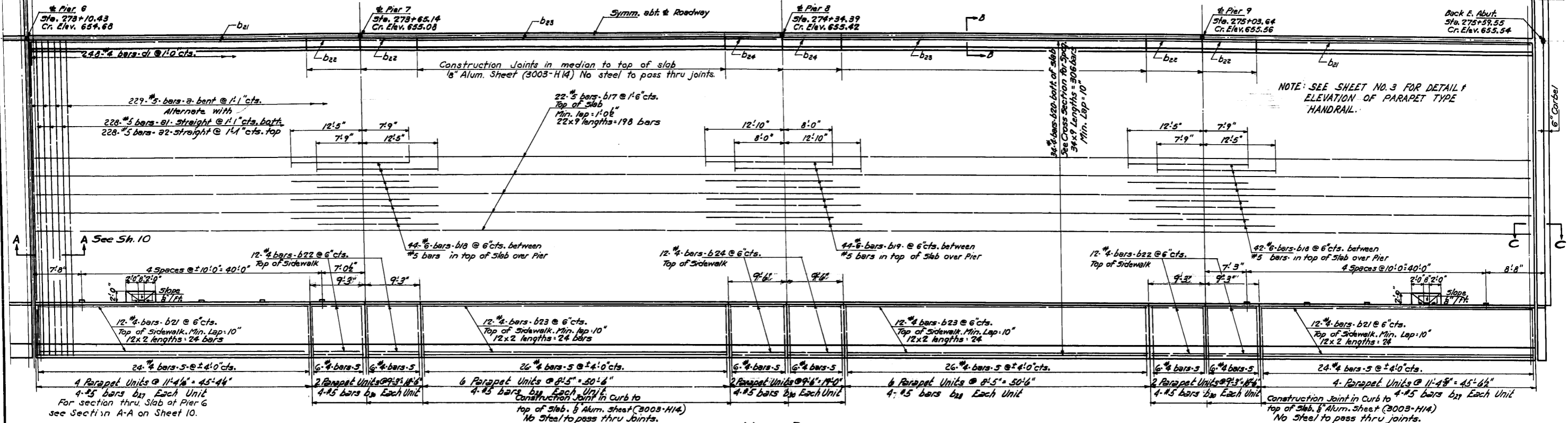
July 29 1959



SUPERSTRUCTURE BETWEEN I.M.B.R.R. & GARDNER ROAD S.B.I. RT. 55- SECTION 551-VB/F COOK COUNTY STATION 274+34.38

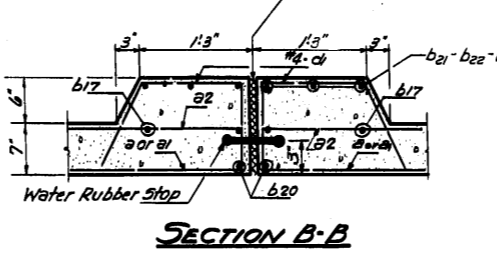
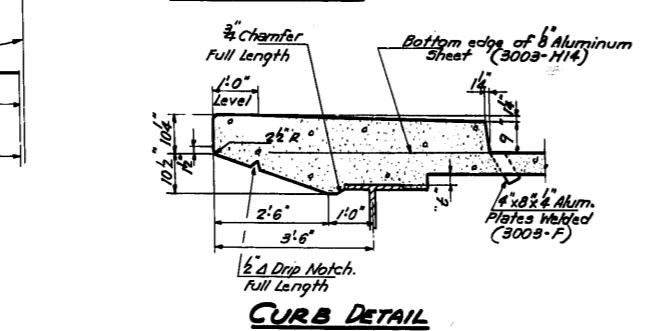
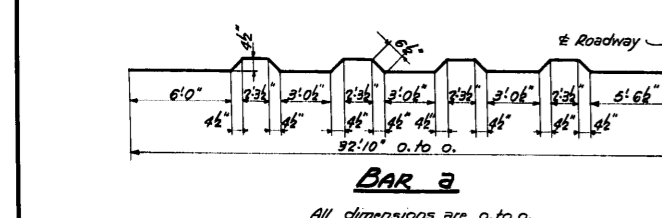
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4 28 SHEETS
S.B.I. 55	551 V.B.	COOK	57	55	
F.A.					
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



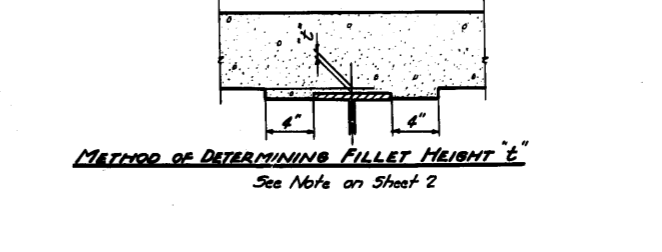
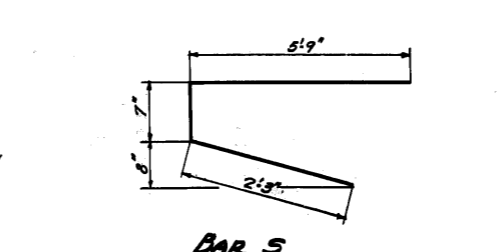
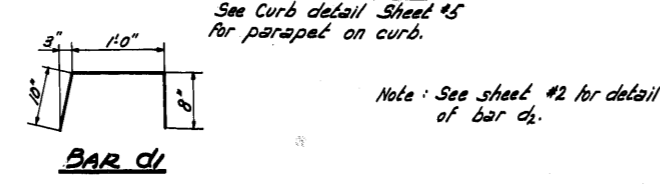
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	458	#5	34'2"	
a1	456	#5	32'10"	
a2	456	#5	33'10"	
b17	396	#5	28'6"	
b18	176	#6	20'2"	
b19	88	#6	20'10"	
b20	612	#4	28'4"	
b21	120	#4	23'0"	
b22	120	#4	9'0"	
b23	120	#4	26'7"	
b24	60	#4	9'3"	
b27	32	#5	10'9"	
b28	96	#5	8'0"	
b29	32	#5	11'0"	
b30	48	#5	9'0"	
d1	496	#4	11'2"	
d2	496	#4	2'6"	
d3	992	#5	3'0"	
s	272	#4	8'7"	
Class-X Concrete C. Yds. 517.7				
Reinforcement Bars Lbs. 92,310				
* Structural Steel Lbs. 492840				



DESIGNED *Conall C. P. G.*
CHECKED *J. R. K. Gaudin*
DRAWN *Z.C.P. M. Miller*
CHECKED *F. H. G.*

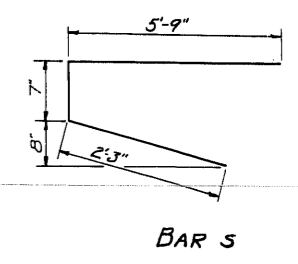
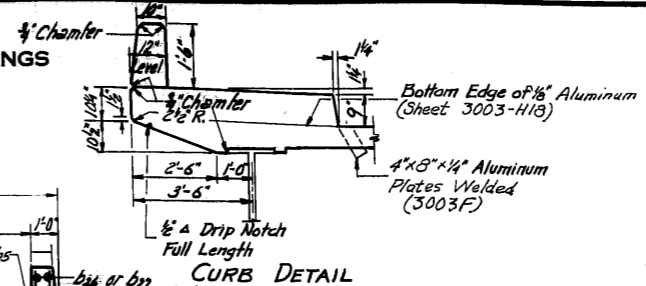
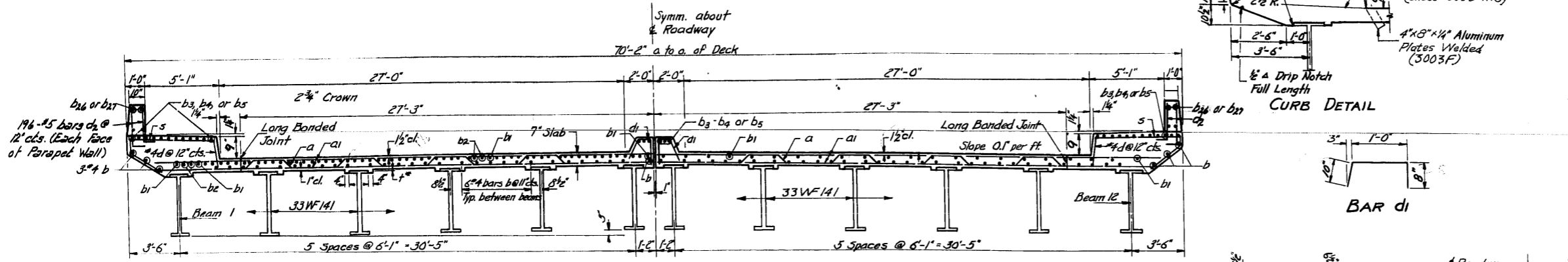
EXAMINED *[Signature]*
PASSED *[Signature]*
APPROVED *[Signature]*



SUPERSTRUCTURE
FOUR SPAN UNIT OF DECK
OVER I.H.B.R.R.
S.B.I. RT. 55 - SEC. 551 - V.B.F.
COOK COUNTY
STATION 274+34.38

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

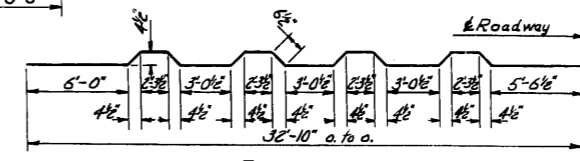
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 28 SHEETS
S. I. 59	551VB	COOK	57	34	
F. A.					



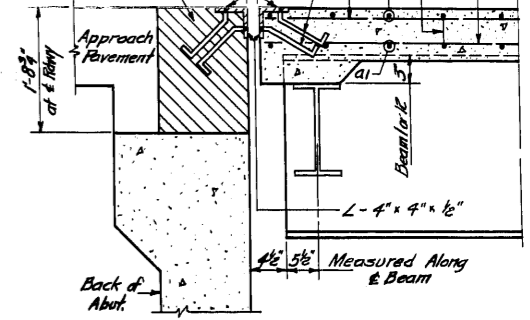
NEAR PIERS
METHOD OF DETERMINING FILLET HEIGHTS "f"
After all Structural Steel has been erected, elevations of the top flanges of the beams shall be taken at intervals not to exceed 10 ft. From these elevations subtract the increment of deflection for these points, determined from the D.L. deflection diagram. The elevations so attained subtracted from the theoretical grade elevations, minus floor thickness, equals the fillet heights above top of beam.

TYPICAL CROSS SECTION
Looking East

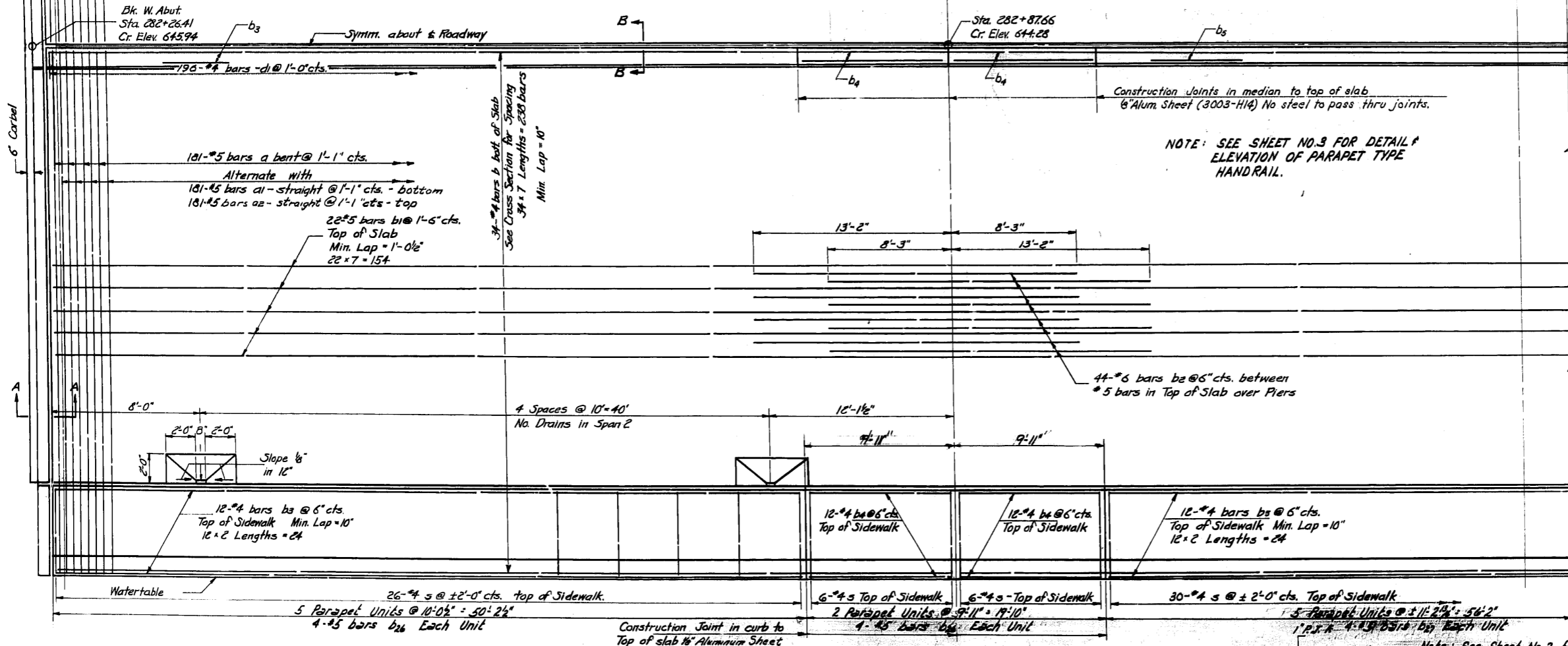
NEAR ABUTS & SPANS



3/8" holes at 12" cts. for 3/8" bolts
All bolts shall be burned, sawed or clipped off flush with back of angles after forms are removed.
Shaded area to be poured after superstructure falsework has been removed. Quantity of C.I. Conc. included with Superstr.
3/4" x 8" x 2" CR 1020 STL Granular or solid flux filled studs - automatically end welded (alternate at 1'-0" cts.)



SECTION A-A



NOTE: SEE SHEET NO. 3 FOR DETAIL OF ELEVATION OF PARAPET TYPE HANDRAIL.

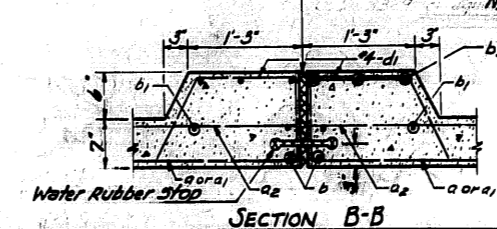
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	362	#5	34'-2"	~
a1	362	#5	32'-10"	~
a2	362	#5	33'-10"	~
b	476	#4	28'-7"	~
b1	308	#5	28'-11"	~
b2	188	#5	21'-5"	~
b3	120	#4	25'-5"	~
b4	120	#4	9'-8"	~
b5	60	#4	28'-6"	~
b26	112	#5	9'-6"	~
b27	40	#5	10'-9"	~
d	392	#4	1'-2"	~
d1	392	#4	2'-6"	~
d2	784	#5	3'-0"	~
s	212	#4	8'-7"	~
Class X Concrete		Cu Yds.	415.4	
Reinforcement Bars		Lbs.	72,320	
Structural Steel		Lbs.	402,920	

DESIGNED *Leonard C. Pity*
CHECKED *J. J. H. ...*
DRAWN *E. C. R.*
CHECKED *E. K. G.*

EXAMINED *July 29 19 59*
PASSED *E. S. ...*
APPROVED *R. R. ...*

DESIGN STRESSES
Fs = 18,000 Structural Steel
Fs = 20,000 Reinforcement
Fc = 1,400 Superstructure
Fc = 1,000 Substructure
n = 10



SECTION B-B

SUPERSTRUCTURE
CERMAK ROAD OVER 25TH AVE.
S.B.I. RT. 55-SECTION 551-VBF
COOK COUNTY
STATION 274+34.38

Note: All top of beam elevations to be increased by .08'

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

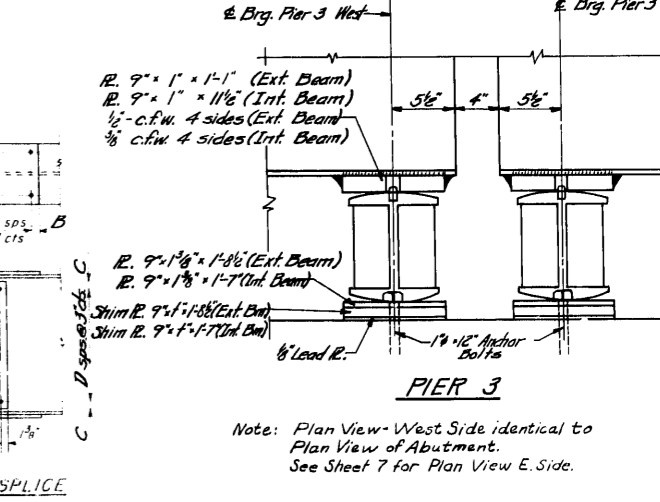
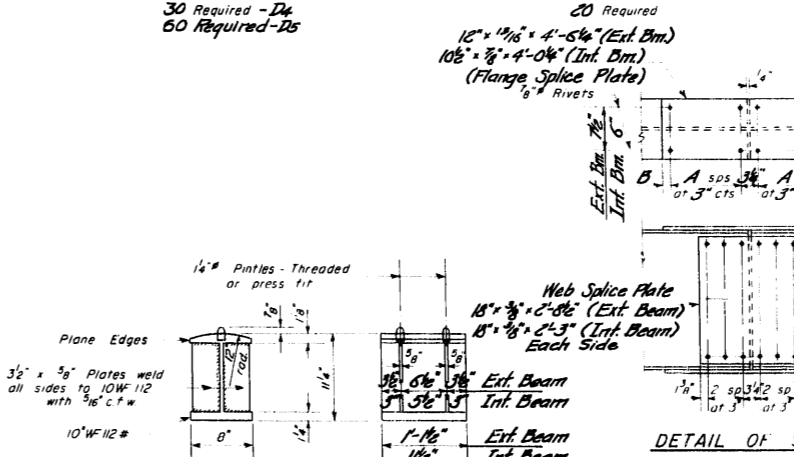
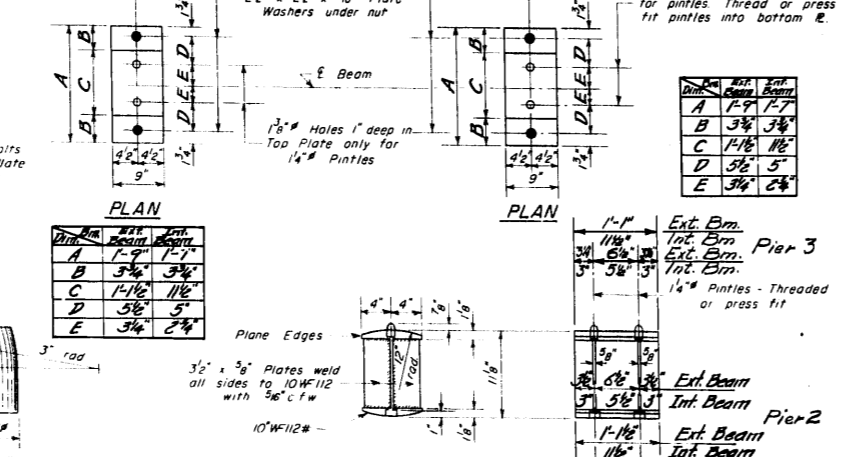
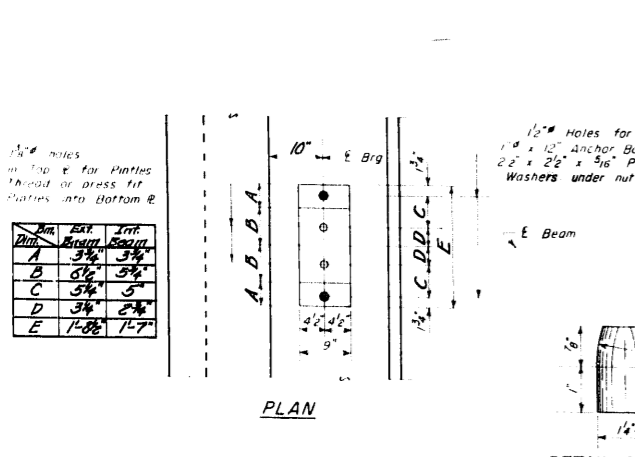
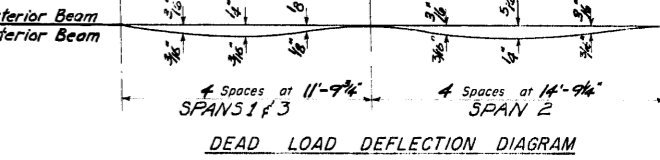
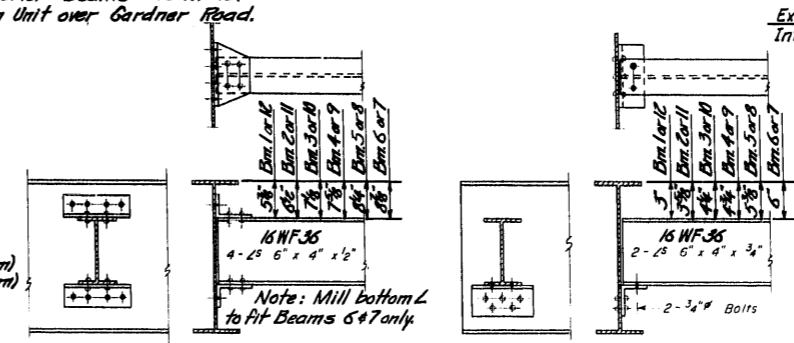
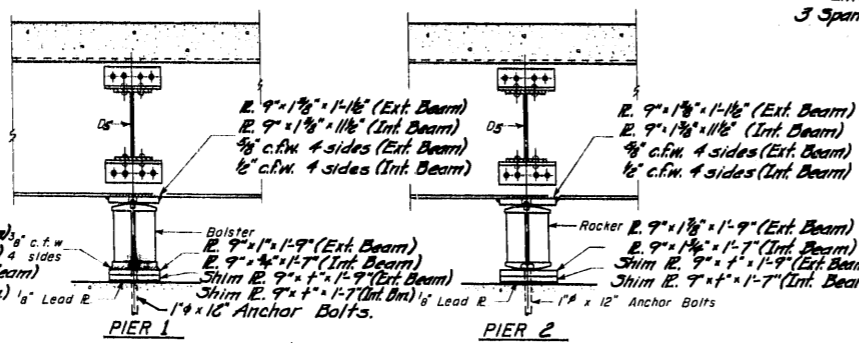
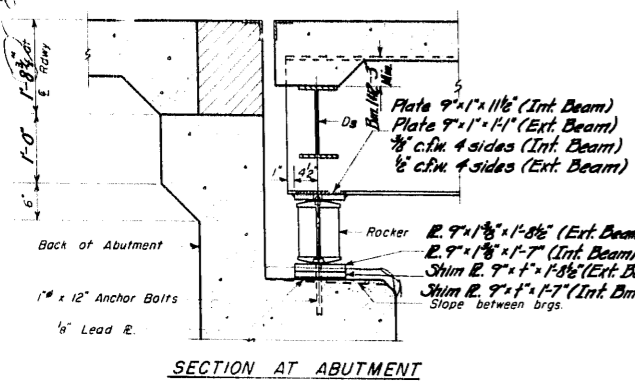
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.L. 57	551-VF	COOK	9	4
F.A.	551-VB		57	35
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO 4
28 SHEETS

47'-3"		12'-3"		10'-6"		19'-0 1/2"		19'-0 1/2"		10'-6"		12'-3"		47'-3"	
18'-11"		16'-1"		12'-3"		10'-6"		19'-0 1/2"		10'-6"		12'-3"		18'-11"	
E. Brg. W. Abut.		E. Brg. Pier 1		Splice		Splice		E. Brg. Pier 2		E. Brg. Pier 3 West		E. Brg. Pier 3 East			
647.39	648.43	648.43	648.70	649.43	649.68	649.68	649.93	649.93	650.65	650.65	650.70	650.70	650.75	650.80	650.85
647.44	648.48	648.48	648.75	649.48	649.73	649.73	649.98	649.98	650.70	650.70	650.75	650.80	650.85	650.90	650.90
647.49	648.53	648.53	648.80	649.53	649.78	649.78	649.83	649.83	650.75	650.75	650.80	650.85	650.90	650.90	650.90
647.54	648.58	648.58	648.85	649.58	649.83	649.83	649.88	649.88	650.80	650.80	650.85	650.90	650.90	650.90	650.90
647.59	648.63	648.63	648.90	649.63	649.88	649.88	649.93	649.93	650.85	650.85	650.90	650.90	650.90	650.90	650.90
647.64	648.68	648.68	648.95	649.68	649.93	649.93	649.98	649.98	650.90	650.90	650.90	650.90	650.90	650.90	650.90
647.59	648.63	648.63	648.90	649.63	649.88	649.88	649.93	649.93	650.85	650.85	650.90	650.90	650.90	650.90	650.90
647.54	648.58	648.58	648.85	649.58	649.83	649.83	649.88	649.88	650.80	650.80	650.85	650.90	650.90	650.90	650.90
647.49	648.53	648.53	648.80	649.53	649.78	649.78	649.83	649.83	650.75	650.75	650.80	650.85	650.90	650.90	650.90
647.44	648.48	648.48	648.75	649.48	649.73	649.73	649.78	649.78	650.70	650.70	650.75	650.80	650.85	650.90	650.90
647.39	648.43	648.43	648.70	649.43	649.68	649.68	649.93	649.93	650.65	650.65	650.70	650.75	650.80	650.85	650.90

Note: All Elevations are at top of Beams at E Bearings or E Splices.

FRAMING PLAN
Exterior Beams - 36 WF 150
Interior Beams - 30 WF 104
3 Span Unit over Gardner Road.



DESIGNED *Ronald C. Pitt*
CHECKED *Donald H. Sargent*
DRAWN *R.C.P. W.A. Sausaman*
CHECKED *J.K.J.*

EXAMINED *McDonnell*
PASSED *R. S. Smith*
APPROVED *R.R. Bartholomew*

JULY 29 19 59

DETAIL OF BEARING AT PIER 2 & PIER 3 WEST

TABLE OF "x" DIMENSIONS

Dim.	Ext. Beam	Int. Beam
A	1-9"	1-7"
B	3 3/4"	3 3/4"
C	1-1/2"	1 1/2"
D	5 1/2"	5"
E	3 1/4"	2 3/4"

STRUCTURAL STEEL LAYOUT & DETAILS
CERMAK ROAD OVER GARDNER ROAD
S.B.I. RT. 55 - SEC. 551-VBF
COOK COUNTY
STATION 274+34.38

Note: All top of beam elevations to be increased by .03'

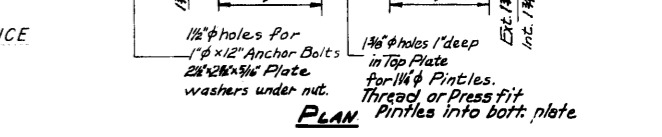
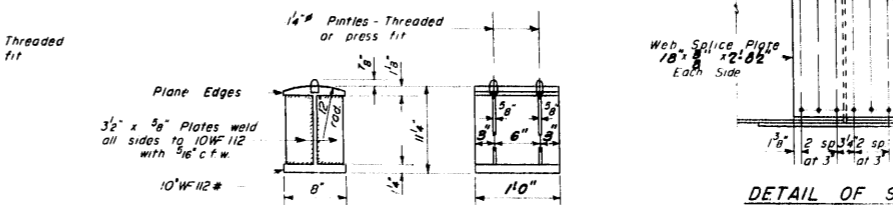
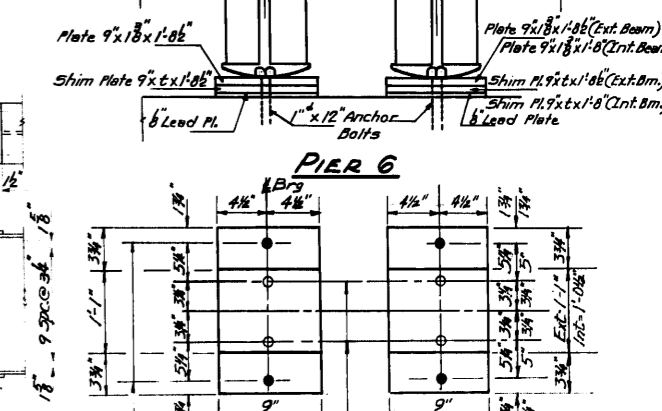
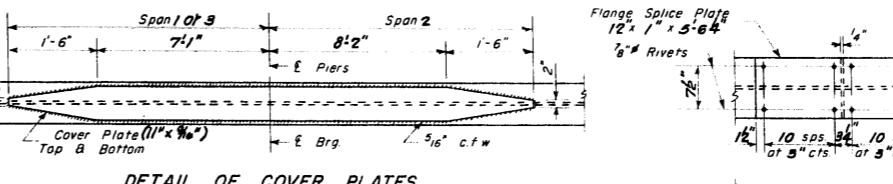
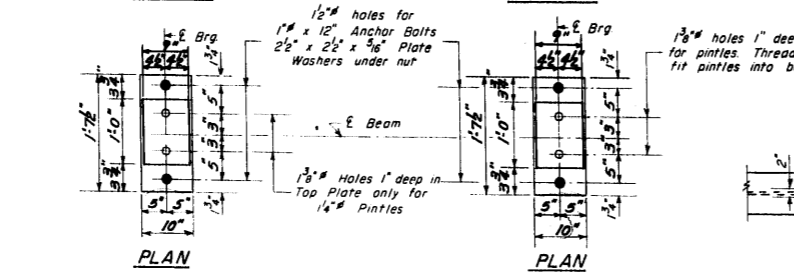
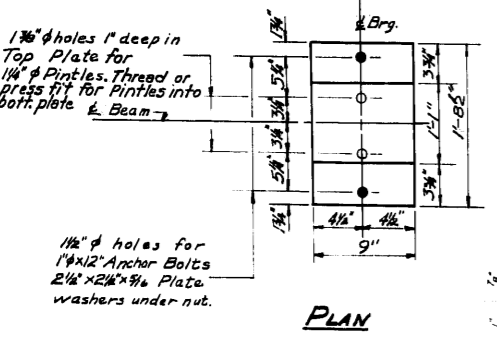
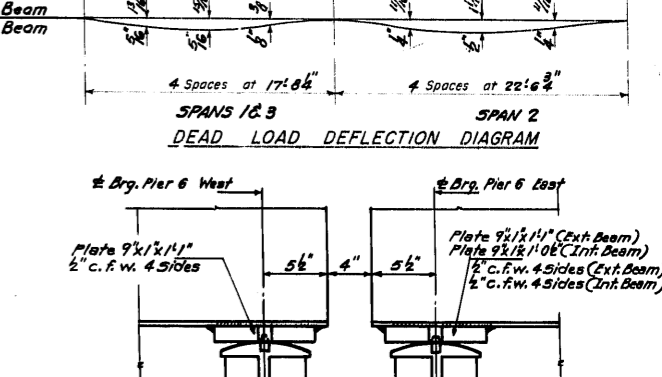
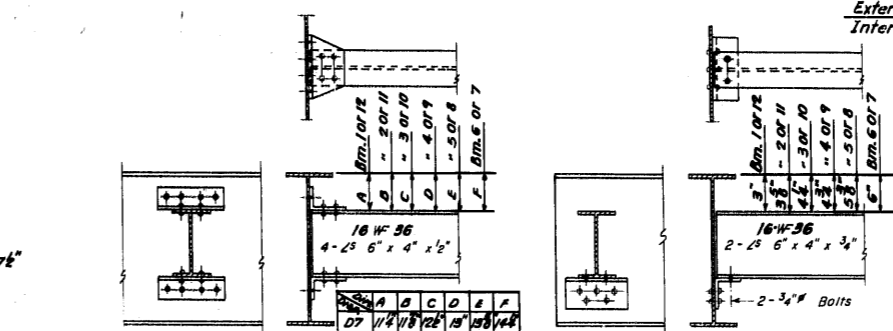
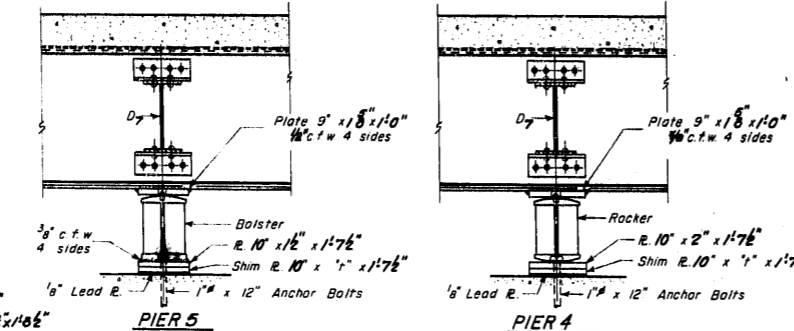
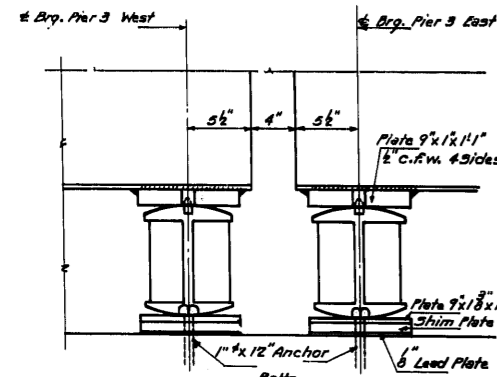
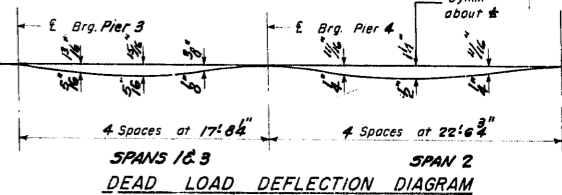
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551-VF	551-VB	Cook	57	36
SHEET NO. 7 28 SHEETS				

Pier 3		70'9"	70'3"												Pier 5		70'9"	Pier 6					
17'8"	17'8"	17'8"	17'9"	17'9"	17'9"	17'9"	17'9"	17'9"	17'9"	17'9"	17'9"	17'9"	17'9"	17'9"	17'9"	17'9"	17'8"	17'8"					
650.67	650.78	650.77	650.82	650.87	650.72	650.72	650.87	650.82	650.77	650.78	650.67	651.46	651.75	652.05	652.73	652.95	653.18	653.74	653.79	653.84	653.89	653.94	
Beam 1		Beam 2		Beam 3		Beam 4		Beam 5		Beam 6		Beam 7		Beam 8		Beam 9		Beam 10		Beam 11		Beam 12	
51'6 1/2"		39'4"		50'11"		39'4"		51'6 1/2"		39'4"		51'6 1/2"		39'4"		51'6 1/2"		39'4"		51'6 1/2"		39'4"	

Note: All Elevations are at top of Beams @ E Bearings or @ Splices.

FRAMING PLAN
All beams 36 W 170



DESIGNED *Ronald C. Pitt*
CHECKED *J. J. ...*
DRAWN *R.C. W. A. Soussan*
CHECKED *J.K.J.*

EXAMINED *July 29 1959*
PASSED *E. J. ...*
APPROVED *R.R. ...*

DETAIL OF BEARING AT PIERS 3, 4 & 6

TABLE OF "I" DIMENSIONS

Position	1 or 12	2 or 11	3 or 10	4 or 9	5 or 8	6 or 7
Pier 3	0'	5'	0'	1'	0'	5'
Pier 4	0'	1'	0'	3'	0'	1'
Pier 5	0'	1'	0'	3'	0'	1'
Pier 6	0'	1'	0'	3'	0'	1'

STRUCTURAL STEEL DETAILS
BETWEEN I.H.B.R.R. & GARDNER ROAD
S.B.I. RT. 55-SEC. 551-VB
COOK COUNTY
STATION 274+34.30

Note: All top of beam elevations to be increased by .08'

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

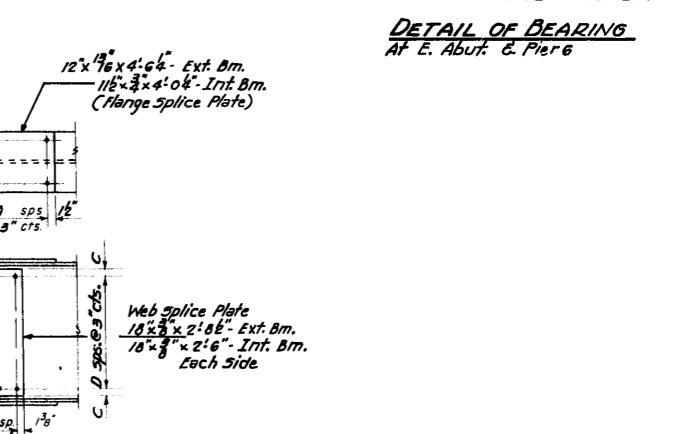
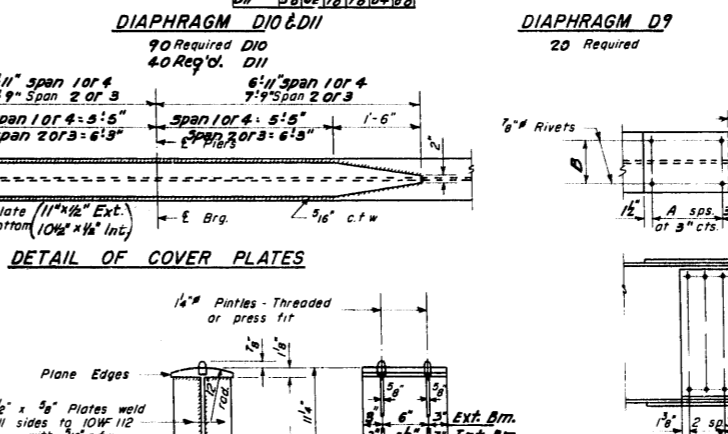
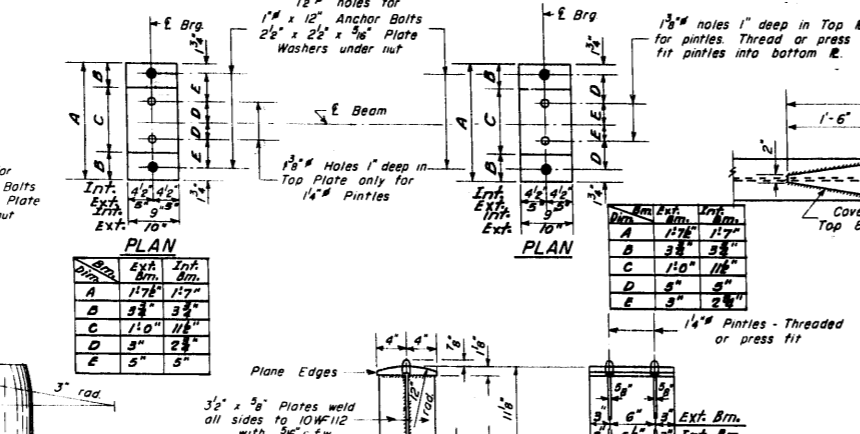
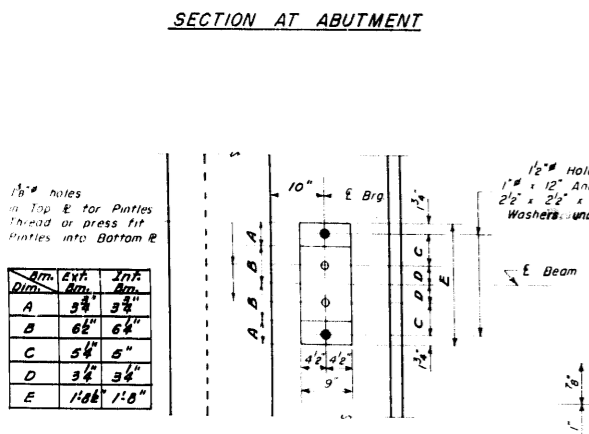
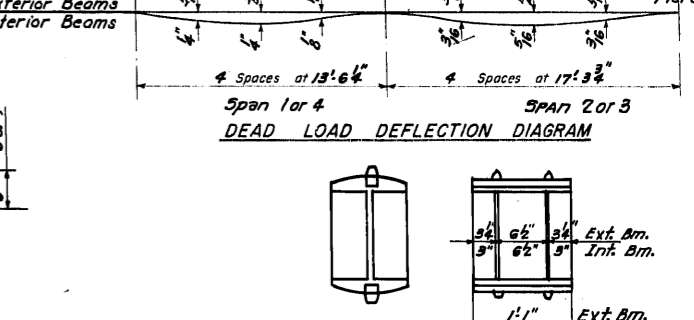
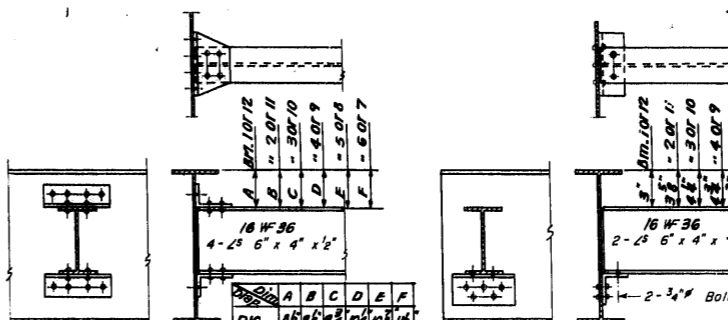
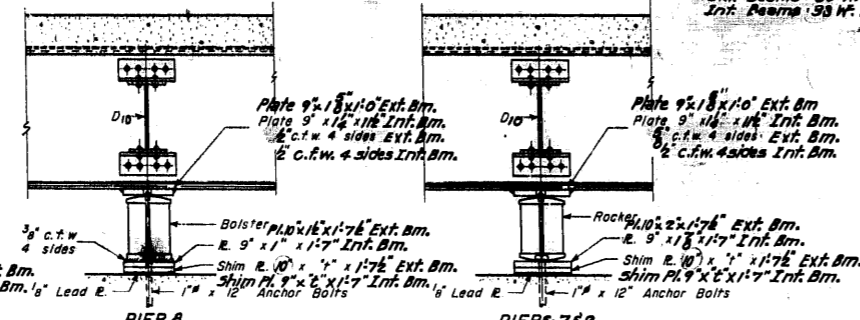
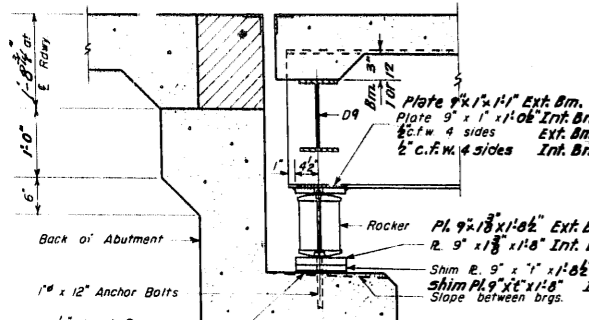
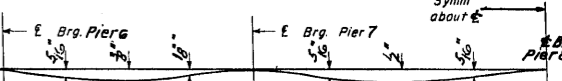
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8 28 SHEETS
55	551-VB	COOK	9	6	
551-VB	ILLINOIS	FED. AID PROJECT	57	37	

Span	21'0"	17'5"	15'0"	13'9"	20'10 1/2"	18'7 1/2"	16'0"	14'3"	20'4 1/2"	20'10 1/2"	13'9"	15'0"	17'5"	21'0"																						
Pier 6	76"			69'3"			69'3"			76"			54'1"																							
E. Brg. Pier 6 West	E. Brg. Pier 6 East			Pier 7			Pier 8			Pier 9			E. Brg. E. Abut.																							
Bm. 1	Bm. 2			Bm. 3			Bm. 4			Bm. 5			Bm. 6																							
Bm. 7	Bm. 8			Bm. 9			Bm. 10			Bm. 11			Bm. 12																							
D ₁	653.76	653.81	653.86	653.91	653.96	654.01	654.01	653.96	653.91	653.86	653.81	653.76	654.09	654.15	654.20	654.25	654.30	654.35	654.40	654.44	654.47	654.52	654.57	654.62	654.67	654.72	654.77	654.82	654.87	654.92	654.97	655.01	655.06	655.11	655.16	
D ₂	654.22	654.27	654.32	654.37	654.42	654.47	654.52	654.57	654.62	654.67	654.72	654.77	654.82	654.87	654.92	654.97	655.02	655.07	655.12	655.17	655.22	655.27	655.32	655.37	655.42	655.47	655.52	655.57	655.62	655.67	655.72	655.77	655.82	655.87	655.92	655.97
D ₃	654.68	654.73	654.78	654.83	654.88	654.93	654.98	655.03	655.08	655.13	655.18	655.23	655.28	655.33	655.38	655.43	655.48	655.53	655.58	655.63	655.68	655.73	655.78	655.83	655.88	655.93	655.98	656.03	656.08	656.13	656.18	656.23	656.28	656.33	656.38	
D ₄	654.82	654.87	654.92	654.97	655.02	655.07	655.12	655.17	655.22	655.27	655.32	655.37	655.42	655.47	655.52	655.57	655.62	655.67	655.72	655.77	655.82	655.87	655.92	655.97	656.02	656.07	656.12	656.17	656.22	656.27	656.32	656.37	656.42	656.47	656.52	656.57
D ₅	655.14	655.19	655.24	655.29	655.34	655.39	655.44	655.49	655.54	655.59	655.64	655.69	655.74	655.79	655.84	655.89	655.94	655.99	656.04	656.09	656.14	656.19	656.24	656.29	656.34	656.39	656.44	656.49	656.54	656.59	656.64	656.69	656.74	656.79	656.84	656.89

Note: All elevations are at top of Beams
at Bearings or Splices.

STEEL FRAMING PLAN

Note: See Sheet 7
for Section at Pier 6



DESIGNED Ronald C. Pitz
CHECKED Floyd H. Jacobson
DRAWN R.C.P. W.A. Saudamnan
CHECKED F.H.J.

EXAMINED July 29 1959
PASSED
APPROVED R.R. Barkley

DETAIL OF BEARING
AT PIERS 7&9

TABLE OF "4" DIMENSIONS

Span	1 or 4	2 or 3	3 or 4	4 or 7	4 or 8	7 or 7
Pier 6	0	0	1/8"	0	3/8"	0
Pier 7	0	0	1/8"	0	3/8"	0
Pier 8	0	0	1/8"	0	3/8"	0
Pier 9	0	0	1/8"	0	3/8"	0
E. Abut.	0	0	3/8"	0	3/8"	0

STRUCTURAL STEEL DETAILS
GERMAK ROAD OVER I.H.R.R.
S.B.I. Rt. 55-SEC. 551-VB-F
COOK COUNTY
STATION 274+34.38

Note: All top of beam elevations to be increased by .08'

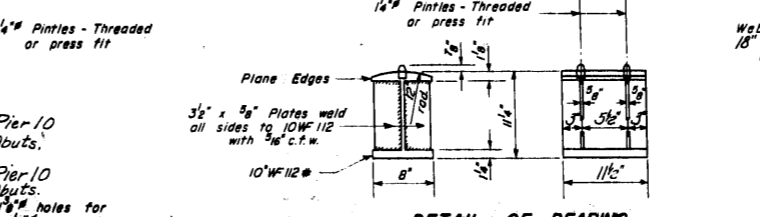
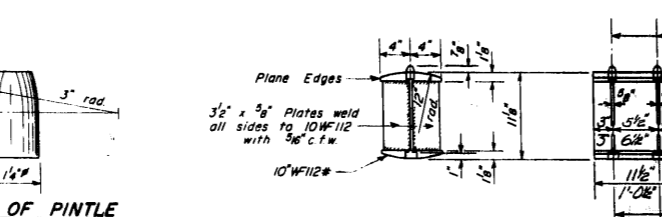
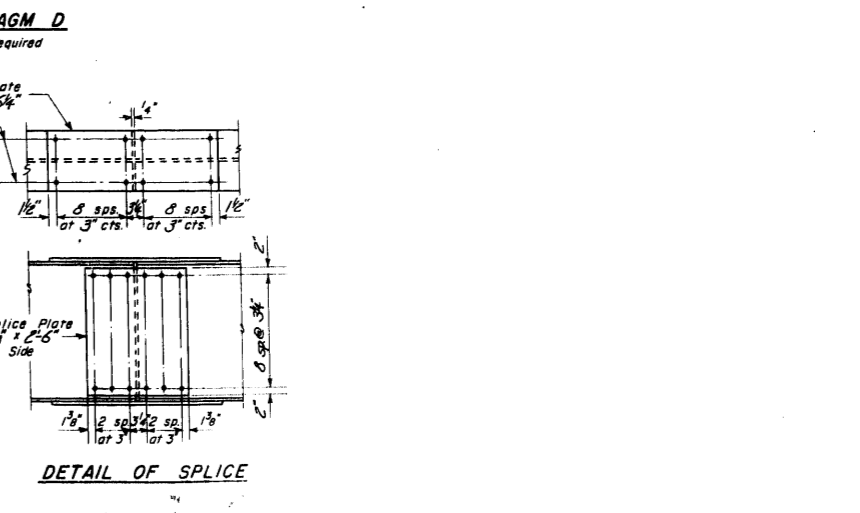
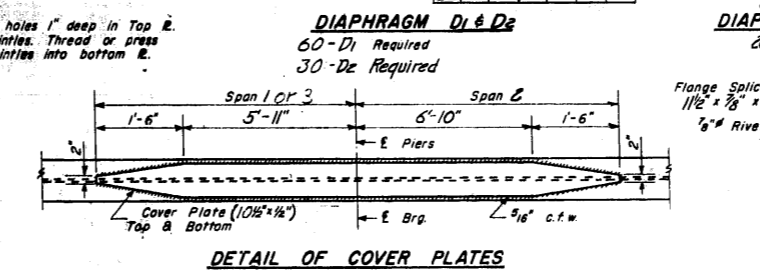
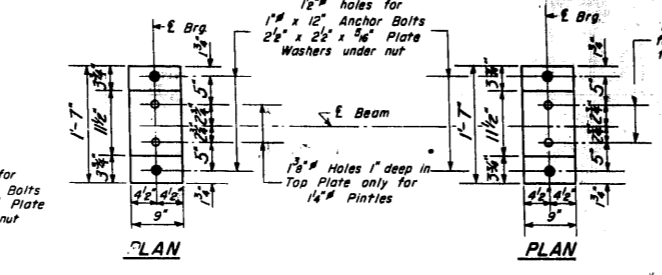
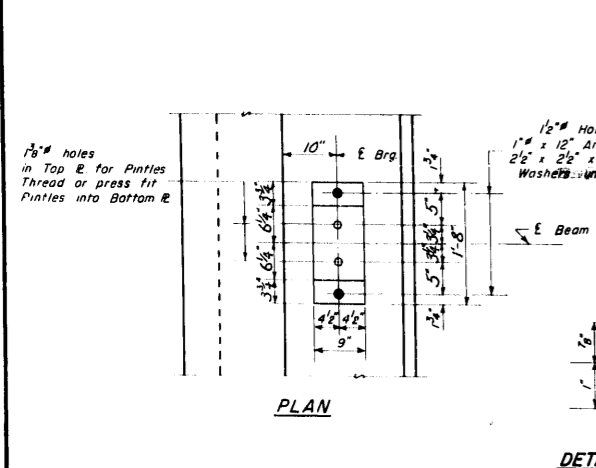
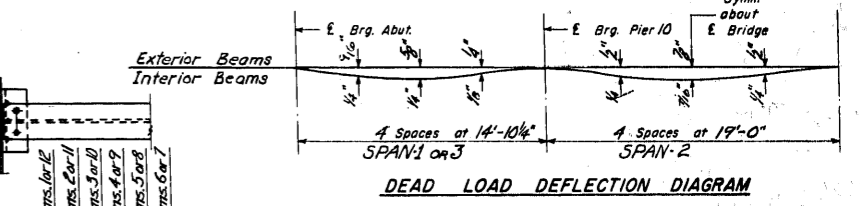
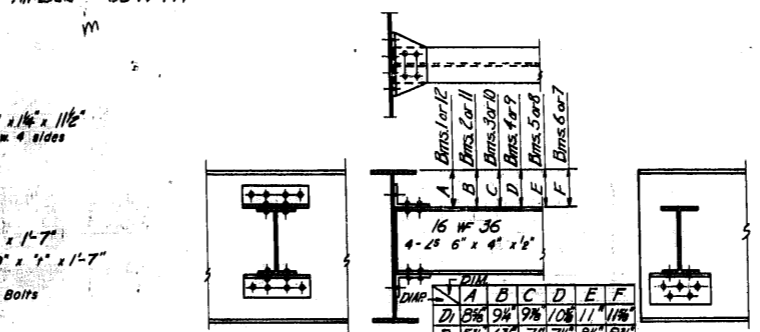
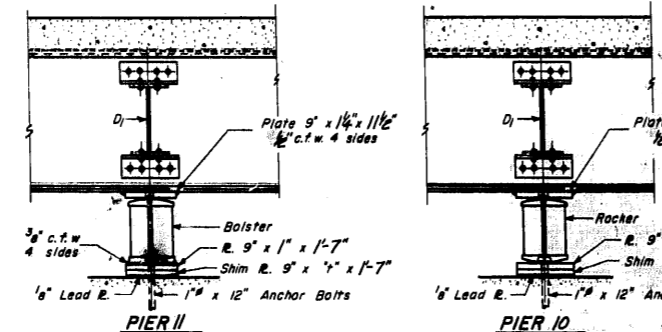
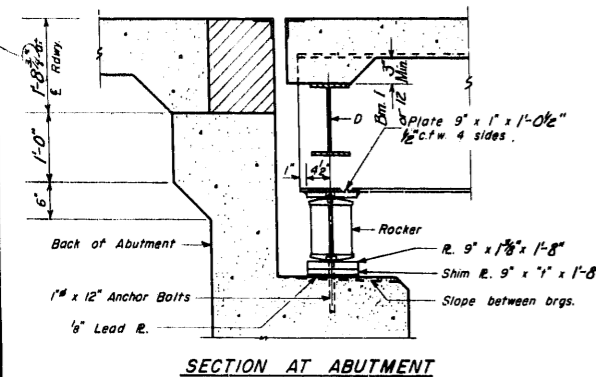
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55-VF	55-VB	COOK	9	7
F.A.			57	38

SHEET NO. 9
28 SHEETS

	23'-9"	59'-5"	19'-11 1/2"	16'-6 1/2"	14'-9"	76'-0"	23'-3"	76'-0"	23'-3"	14'-9"	16'-6 1/2"	19'-1 1/2"	59'-5"	23'-9"	5 1/2"
	± Brg. W. Abut.			± Brg. Pier 10			Splice			± Brg. Pier 11			± Brg. E. Abut.		
D	644.97	Dz	①	D1	643.28	D1	642.81	Dz	641.55	D1	641.07	D1	Dz	639.34	D
D	645.02	Dz	②	D1	643.33	D1	642.85	Dz	641.60	D1	641.12	D1	Dz	639.39	D
D	645.07	Dz	③	D1	643.38	D1	642.91	Dz	641.65	D1	641.17	D1	Dz	639.44	D
D	645.12	Dz	④	D1	643.43	D1	642.96	Dz	641.70	D1	641.22	D1	Dz	639.49	D
D	645.17	Dz	⑤	D1	643.48	D1	643.01	Dz	641.75	D1	641.27	D1	Dz	639.54	D
D	645.22	Dz	⑥	D1	643.53	D1	643.06	Dz	641.80	D1	641.32	D1	Dz	639.59	D
D	645.27	Dz	⑦	D1	643.58	D1	643.11	Dz	641.85	D1	641.37	D1	Dz	639.64	D
D	645.32	Dz	⑧	D1	643.63	D1	643.16	Dz	641.90	D1	641.42	D1	Dz	639.69	D
D	645.37	Dz	⑨	D1	643.68	D1	643.21	Dz	641.95	D1	641.47	D1	Dz	639.74	D
D	645.42	Dz	⑩	D1	643.73	D1	643.26	Dz	642.00	D1	641.52	D1	Dz	639.79	D
D	645.47	Dz	⑪	D1	643.78	D1	643.31	Dz	642.05	D1	641.57	D1	Dz	639.84	D
D	645.52	Dz	⑫	D1	643.83	D1	643.36	Dz	642.10	D1	641.62	D1	Dz	639.89	D
D	644.97	Dz	⑬	D1	643.28	D1	642.81	Dz	641.55	D1	641.07	D1	Dz	639.34	D

Note: All elevations are at top of Beams
• E Bearings or E Splices.
FRAMING PLAN
Elevations shown are at top of beam.
All Bed 33 WF 141



DESIGNED *Ronald C. Pitt*
CHECKED *Floyd K. Fosdick*
DRAWN *R.C.R. W.A. Sousoman*
CHECKED *J.K.S.*

EXAMINED *July 29 1959*
PASSED *[Signature]*
APPROVED *[Signature]*

DETAIL OF BEARING AT PIER 10 & ABUTS

DETAIL OF BEARING AT PIER II

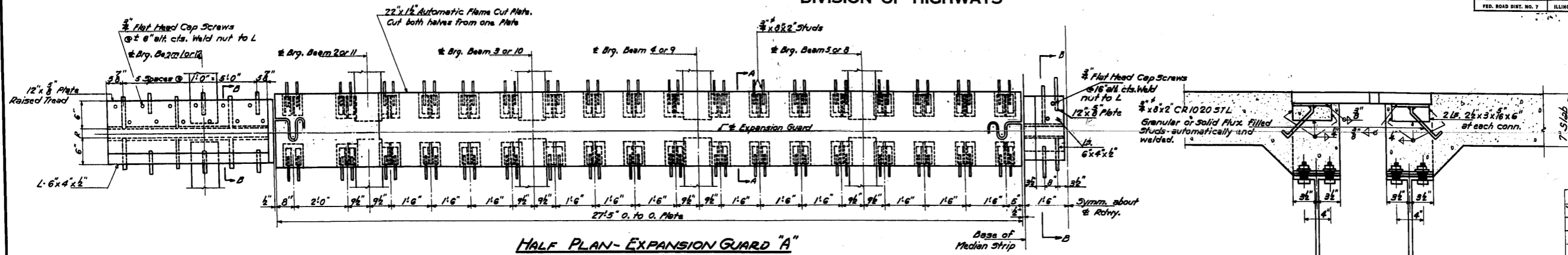
TABLE OF "I" DIMENSIONS

Beam	1st 12	2nd 12	3rd 12	4th 9	5th 8	6th 7
W. Abut.	0	1/2	0	1/2	0	1/2
Pier 10	0	1/2	0	1/2	0	1/2
Pier 11	0	1/2	0	1/2	0	1/2
E. Abut.	0	1/2	0	1/2	0	1/2

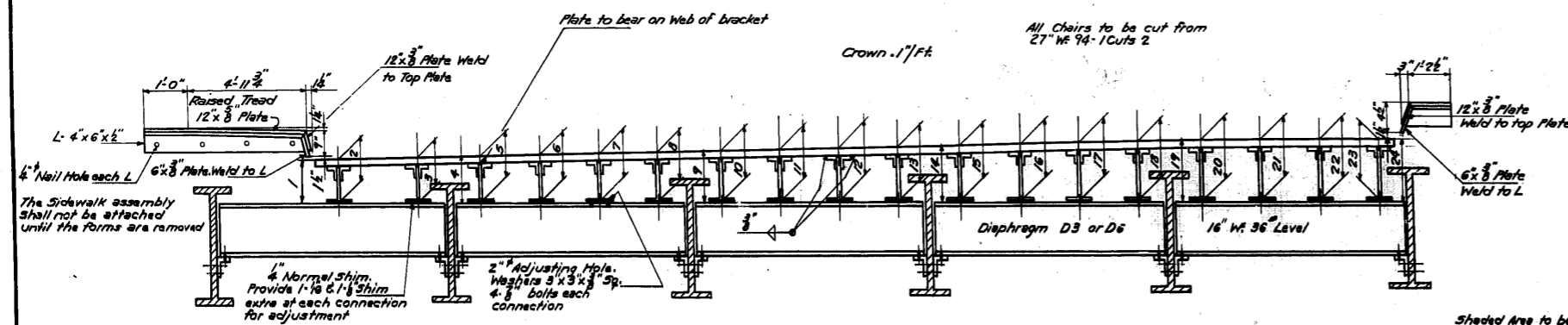
STRUCTURAL STEEL LAYOUT & DETAILS
CERMAK ROAD OVER 25TH AVE.
S.B.T. RT. 55 - SECTION 55-VB
COOK COUNTY
STATION 274 + 34.38

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

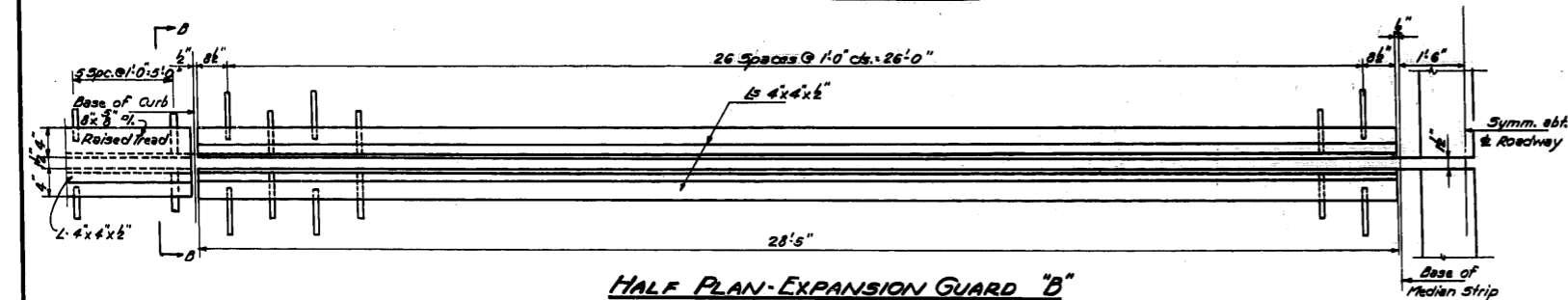
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10
S.R. 55	551-VB	COOK	9	8	
F.A. 531-VB			67	59	28 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



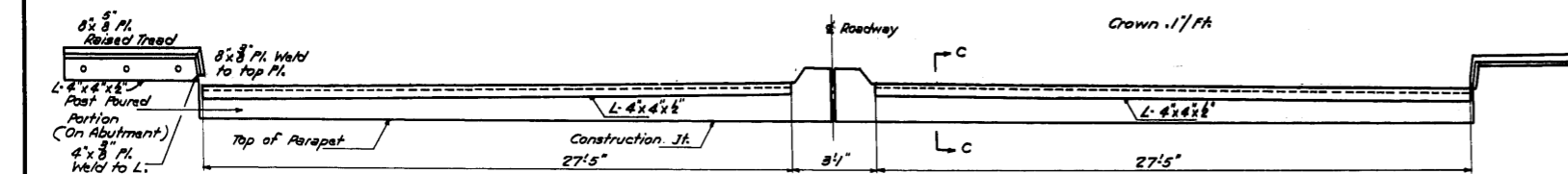
HALF PLAN-EXPANSION GUARD "A"



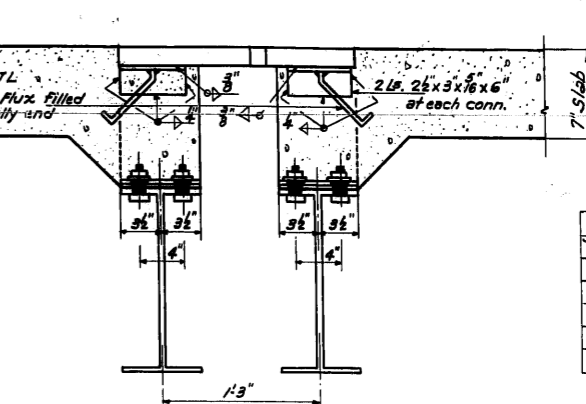
HALF ELEVATION-EXPANSION GUARD "A"
AT PIERS 3&6



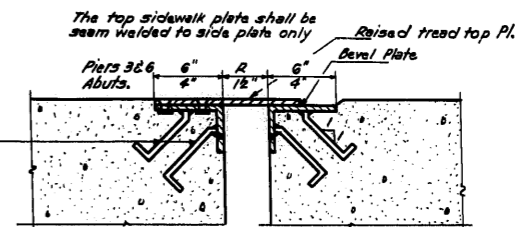
HALF PLAN-EXPANSION GUARD "B"
AT FOUR ABUTMENTS



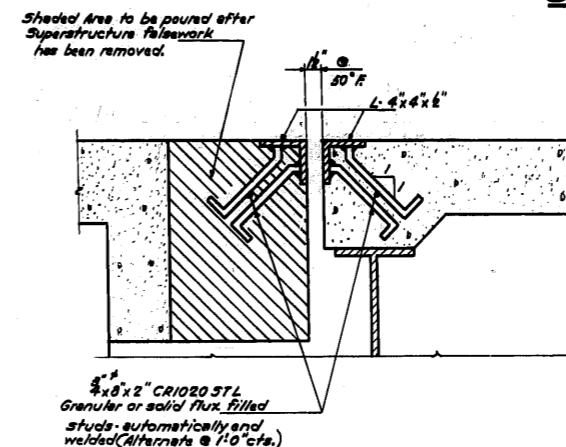
ELEVATION-EXPANSION GUARD "B"



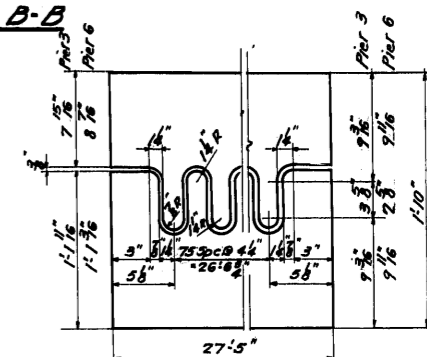
SECTION A-A



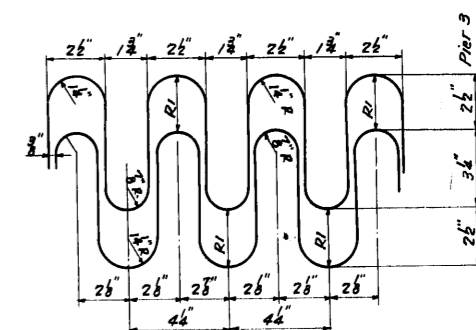
SECTION B-B



SECTION C-C



DETAIL OF FLAME CUT PLATE



DETAIL OF EXPANSION PLATE
AT 50°F

TABLE OF R&R DIMENSIONS

TEMP.	R	R1	R2	R3
10°F	3 3/8	3 3/8	2 3/8	2 3/8
30°F	2 5/8	2 5/8	2 3/8	2 3/8
50°F	2 5/8	2 5/8	2"	2"
70°F	2 5/8	2 5/8	1 3/4	1 3/4
90°F	1 3/8	1 3/8	1 3/8	1 3/8
110°F	1 1/4	1 1/4	1 1/4	1 1/4

BILL OF MATERIAL

Item	Unit	Total
Structural Steel	Lbs.	29060

DIMENSIONS FROM TOP OF FINGER PLATE TO TOP OF DIAPHRAGM

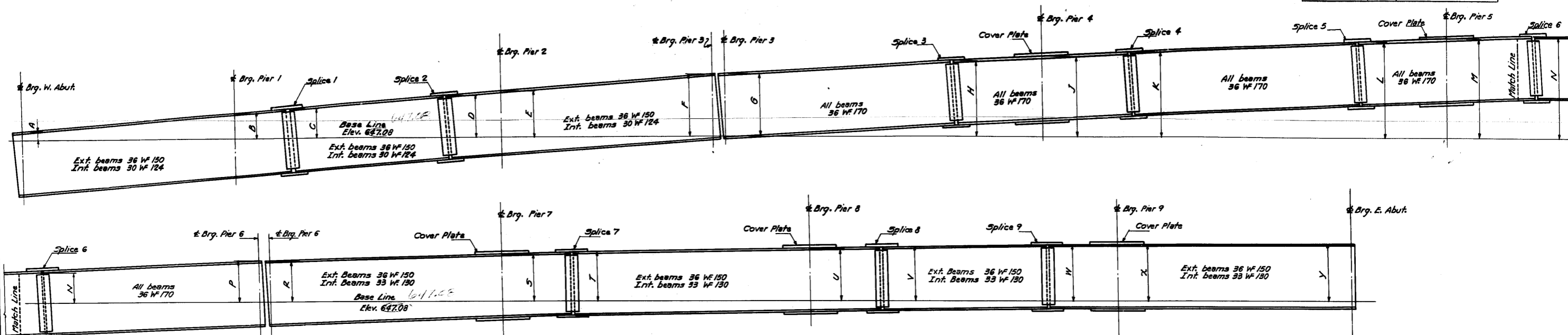
Location	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Pier 3 W. Brg.	11 7/8	11 3/8	11 7/8	11 7/8	11 3/8	11 3/8	11 0	11 0 1/8	11 0 1/4	11 0 1/8	11 0 1/8	11 0 1/8	11 0 1/8	11 0 1/8	11 0 1/8	11 1/8	11 1/4	11 3/8	11 1/2	11 7/8	11 7/8	11 8	11 2	11 2
Pier 3 E. Brg.	11 7/8	11 3/8	11 7/8	11 7/8	11 3/8	11 3/8	11 0	11 0 1/8	11 0 1/4	11 0 1/8	11 0 1/8	11 0 1/8	11 0 1/8	11 0 1/8	11 0 1/8	11 1/8	11 1/4	11 3/8	11 1/2	11 7/8	11 7/8	11 8	11 2	11 2
Pier 6 W. Brg.	11 7/8	11 3/8	11 7/8	11 7/8	11 3/8	11 3/8	11 0	11 0 1/8	11 0 1/4	11 0 1/8	11 0 1/8	11 0 1/8	11 0 1/8	11 0 1/8	11 0 1/8	11 1/8	11 1/4	11 3/8	11 1/2	11 7/8	11 7/8	11 8	11 2	11 2
Pier 6 E. Brg.	11 3/8	11 7/8	11 3/8	11 3/8	11 7/8	11 7/8	11 0 1/8	11 0 1/4	11 0 1/8	11 0 1/8	11 0 1/8	11 0 1/8	11 0 1/8	11 1/8	11 1/4	11 3/8	11 1/2	11 7/8	11 7/8	11 8	11 2	11 2	11 2	11 2

DESIGNED	Ronald C. Pitz	EXAMINED	July 29, 1957
CHECKED	J. D. H. G. Gaudin	PASSED	E. J. Shroyer
DRAWN	R.C.P.	APPROVED	R.R. Bartschmeyer
CHECKED	S.K.P.		

EXPANSION GUARDS
S.B.I. R.R. 55-SECTION 551-VB
COOK COUNTY
STATION 274+34.38

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11 28 SHEETS
S. B. I. 55	551-VF	Cook	9	9	
P. A.	551-VB		57	40	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT			



OVER GARDNER ROAD AND I.H.B.R.R.

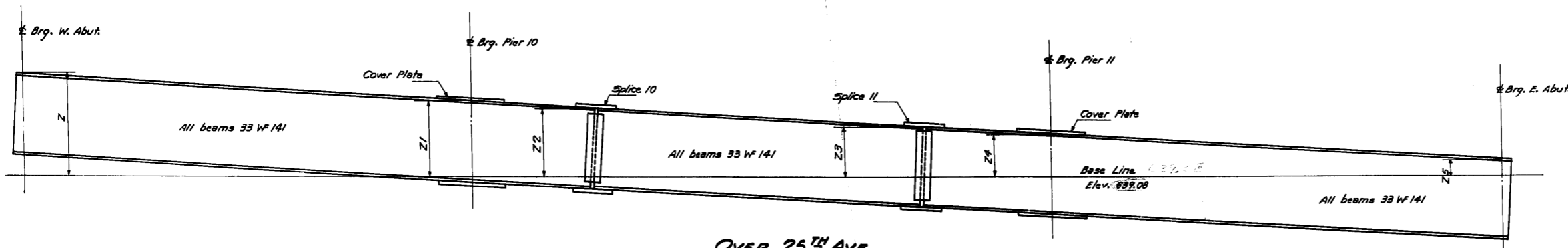


TABLE OF DIMENSIONS

Dim.	1 or 12	2 or 11	3 or 10	4 or 9	5 or 8	6 or 7
A	4 ³ / ₈ "	5 ¹ / ₂ "	5 ³ / ₈ "	6 ¹ / ₂ "	7 ¹ / ₈ "	7 ³ / ₈ "
B	1 ⁵ / ₈ "	1 ⁵ / ₈ "	1 ⁶ / ₈ "	1 ⁷ / ₈ "	1 ⁷ / ₈ "	1 ⁸ / ₈ "
C	1 ⁸ / ₈ "	1 ⁹ / ₈ "	1 ⁹ / ₈ "	1 ¹⁰ / ₈ "	1 ¹⁰ / ₈ "	1 ¹¹ / ₈ "
D	2 ⁵ / ₈ "	2 ⁵ / ₈ "	2 ⁶ / ₈ "	2 ⁷ / ₈ "	2 ⁷ / ₈ "	2 ⁸ / ₈ "
E	2 ⁸ / ₈ "	2 ⁸ / ₈ "	2 ⁹ / ₈ "	2 ¹⁰ / ₈ "	2 ¹⁰ / ₈ "	2 ¹¹ / ₈ "
F	3 ⁷ / ₈ "	3 ⁸ / ₈ "	3 ⁹ / ₈ "	3 ⁹ / ₈ "	3 ¹⁰ / ₈ "	3 ¹⁰ / ₈ "
G	3 ⁸ / ₈ "	3 ⁸ / ₈ "	3 ⁹ / ₈ "	3 ⁹ / ₈ "	3 ¹⁰ / ₈ "	3 ¹¹ / ₈ "
H	4 ⁵ / ₈ "	4 ⁶ / ₈ "	4 ⁶ / ₈ "	4 ⁷ / ₈ "	4 ⁷ / ₈ "	4 ⁸ / ₈ "
J	4 ⁹ / ₈ "	4 ⁹ / ₈ "	4 ¹⁰ / ₈ "	4 ¹⁰ / ₈ "	4 ¹¹ / ₈ "	5 ⁰ / ₈ "
K	5 ¹⁰ / ₈ "	5 ¹ / ₈ "	5 ¹ / ₈ "	5 ² / ₈ "	5 ² / ₈ "	5 ³ / ₈ "
L	5 ⁸ / ₈ "	5 ⁹ / ₈ "	5 ¹⁰ / ₈ "	5 ¹⁰ / ₈ "	5 ¹¹ / ₈ "	5 ¹¹ / ₈ "
M	5 ¹¹ / ₈ "	6 ⁰ / ₈ "	6 ⁰ / ₈ "	6 ¹ / ₈ "	6 ¹ / ₈ "	6 ² / ₈ "
N	6 ² / ₈ "	6 ² / ₈ "	6 ³ / ₈ "	6 ⁴ / ₈ "	6 ⁴ / ₈ "	6 ⁵ / ₈ "
P	6 ³ / ₈ "	6 ⁴ / ₈ "	6 ¹⁰ / ₈ "	6 ¹⁰ / ₈ "	6 ¹¹ / ₈ "	6 ¹¹ / ₈ "
R	6 ⁹ / ₈ "	6 ⁹ / ₈ "	6 ¹⁰ / ₈ "	6 ¹¹ / ₈ "	6 ¹¹ / ₈ "	7 ⁰ / ₈ "
S	7 ¹ / ₈ "	7 ¹ / ₈ "	7 ² / ₈ "	7 ³ / ₈ "	7 ³ / ₈ "	7 ⁴ / ₈ "
T	7 ² / ₈ "	7 ² / ₈ "	7 ³ / ₈ "	7 ⁴ / ₈ "	7 ⁴ / ₈ "	7 ⁵ / ₈ "
U	7 ³ / ₈ "	7 ³ / ₈ "	7 ⁴ / ₈ "	7 ⁴ / ₈ "	7 ⁵ / ₈ "	7 ⁵ / ₈ "
V	7 ⁵ / ₈ "	7 ⁶ / ₈ "	7 ⁷ / ₈ "	7 ⁷ / ₈ "	7 ⁸ / ₈ "	7 ⁸ / ₈ "
W	7 ⁶ / ₈ "	7 ⁷ / ₈ "	7 ⁸ / ₈ "	7 ⁸ / ₈ "	7 ⁹ / ₈ "	7 ⁹ / ₈ "
X	7 ⁷ / ₈ "	7 ⁷ / ₈ "	7 ⁸ / ₈ "	7 ⁸ / ₈ "	7 ⁹ / ₈ "	7 ¹⁰ / ₈ "
Y	7 ⁷ / ₈ "	7 ⁸ / ₈ "	7 ⁸ / ₈ "	7 ⁹ / ₈ "	7 ⁹ / ₈ "	7 ¹⁰ / ₈ "
Z	5 ¹¹ / ₈ "	6 ⁰ / ₈ "	6 ⁰ / ₈ "	6 ¹ / ₈ "	6 ² / ₈ "	6 ² / ₈ "
Z1	4 ³ / ₈ "	4 ⁴ / ₈ "	4 ⁴ / ₈ "	4 ⁵ / ₈ "	4 ⁵ / ₈ "	4 ⁶ / ₈ "
Z2	3 ⁹ / ₈ "	3 ¹⁰ / ₈ "	3 ¹¹ / ₈ "	3 ¹¹ / ₈ "	4 ⁰ / ₈ "	4 ⁰ / ₈ "
Z3	2 ⁶ / ₈ "	2 ⁷ / ₈ "	2 ⁷ / ₈ "	2 ⁸ / ₈ "	2 ⁹ / ₈ "	2 ⁹ / ₈ "
Z4	2 ⁰ / ₈ "	2 ¹ / ₈ "	2 ² / ₈ "	2 ² / ₈ "	2 ³ / ₈ "	2 ³ / ₈ "
Z5	4 ⁸ / ₈ "	4 ⁸ / ₈ "	5 ⁴ / ₈ "	5 ⁸ / ₈ "	6 ⁶ / ₈ "	7 ⁶ / ₈ "

DESIGNED *Ronald C. Pitt*
CHECKED *Donald K. Jacobson*
DRAWN *K.C.P. H. Miller*
CHECKED *F.K.J.*

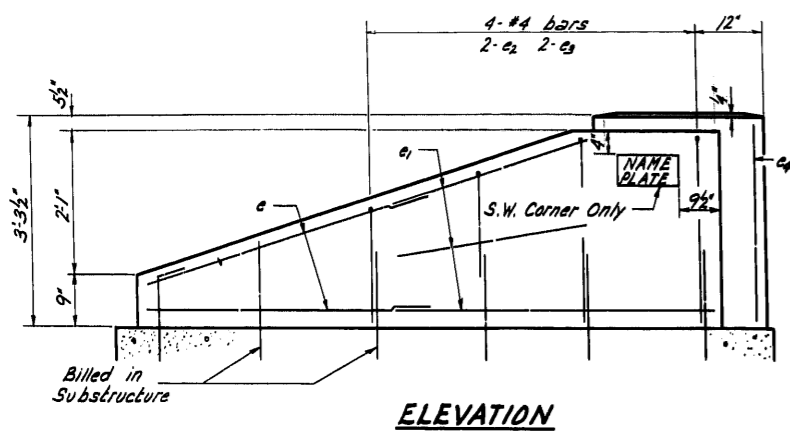
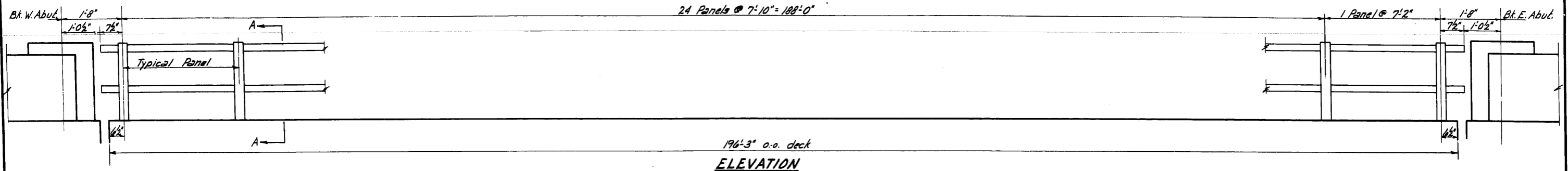
EXAMINED *July 29 19 57*
PASSED *[Signature]*
APPROVED *[Signature]*

FABRICATION DIAGRAM
S.B.I. RT. 55 - SEC. 551-VB F
COOK COUNTY
STA. 274+34.38

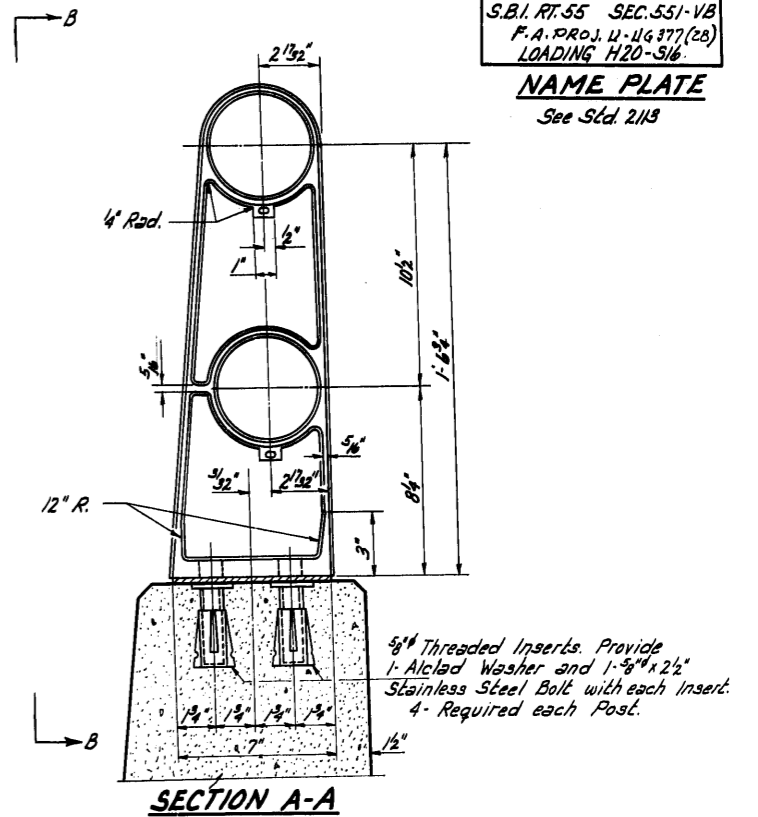
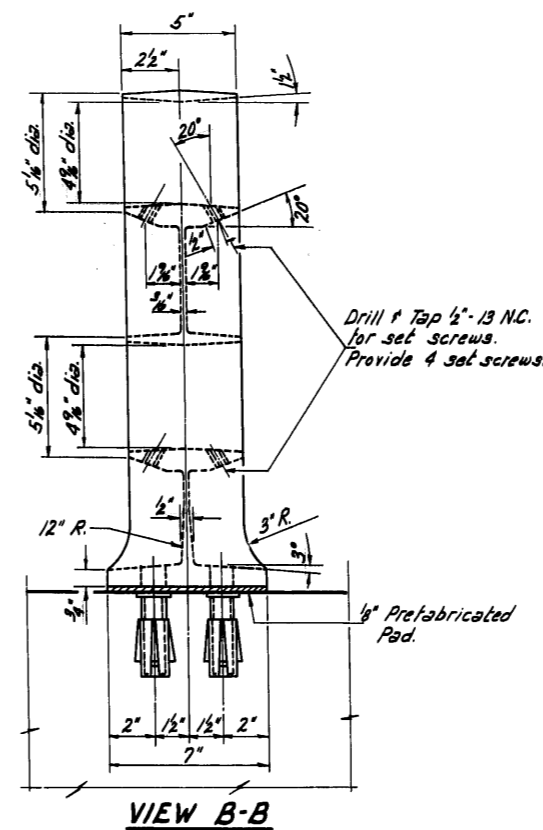
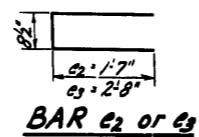
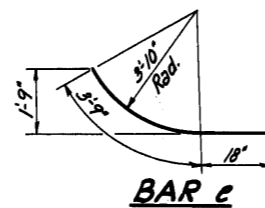
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 55	551-VB	COOK	57	41
F.A. PROJ. U-116377(28)				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

SHEET NO. 12
28 SHEETS

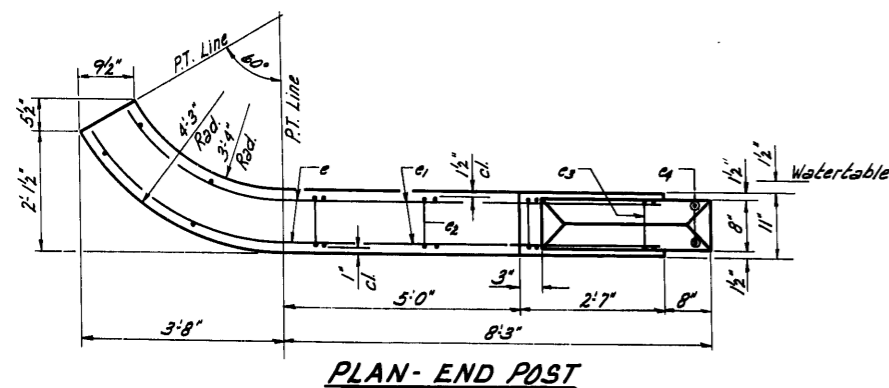


CAST END CAP
DRIVE FIT TYPE
8- Required
Incidental to item "Aluminum Handrail".



STA. 274 + 34.38
BUILT 19 BY
STATE OF ILLINOIS
S.B.I. RT. 55 SEC. 551-VB
F.A. PROJ. U-116377(28)
LOADING H20-S16

NAME PLATE
See Sct. 213



BILL OF MATERIAL

Class X Concrete	Cu. Yds.	3.7
Reinforcement Bars	Lbs.	230
Aluminum Handrail	Lin. Ft.	393

NOTES

All Posts shall be placed normal to parapet.
All Posts shall be of Aluminum conforming to ASTM Specification B-108 alloy SG-70B-T6.
All Rail Tubing shall be of Aluminum conforming to ASTM Specification B-235 alloy GS-11A-T6.
Alclad Washers shall be made from sheet conforming to ASTM Specification B-209 alloy clad CG-42A-T4.
Rail Tubing may be cut to random lengths.
For material composition of Prefabricated Pad, See Article 54.9 (f), (Bearings and Anchorage), of the Standard Specifications.
Set screws shall be of Aluminum conforming to ASTM Specification B-211 alloy CG-42A-T4.

BILL OF REINFORCEMENT

Bar	No.	Size	Length	Shape
e	16	#4	5'-3"	U
e1	24	#4	6'-6"	—
e2	8	#4	3'-10"	—
e3	8	#4	6'-0"	—
e4	8	#4	2'-3"	—

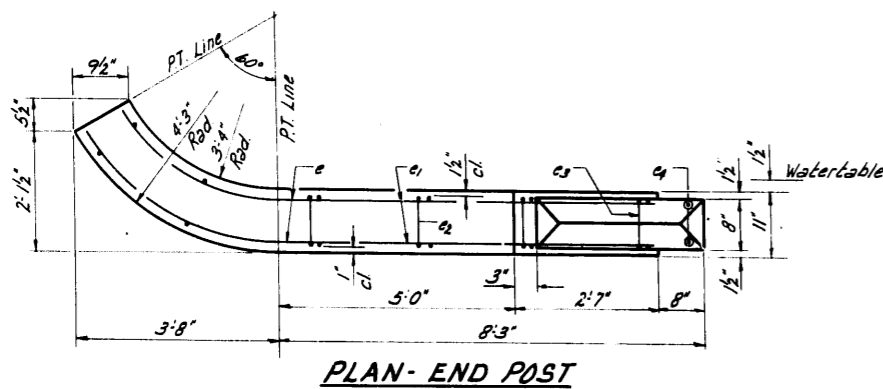
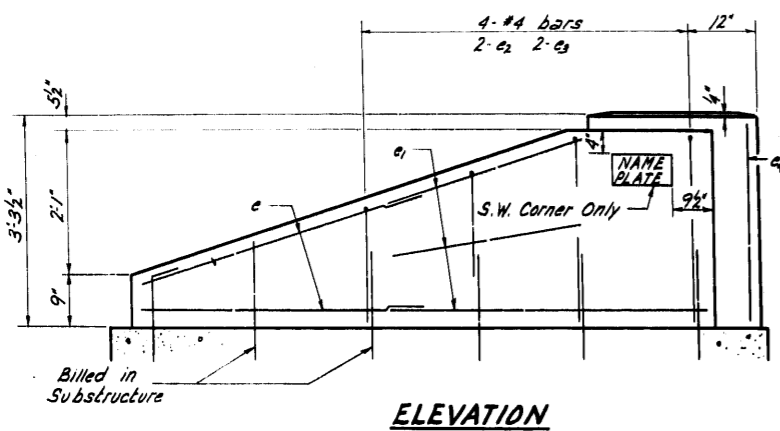
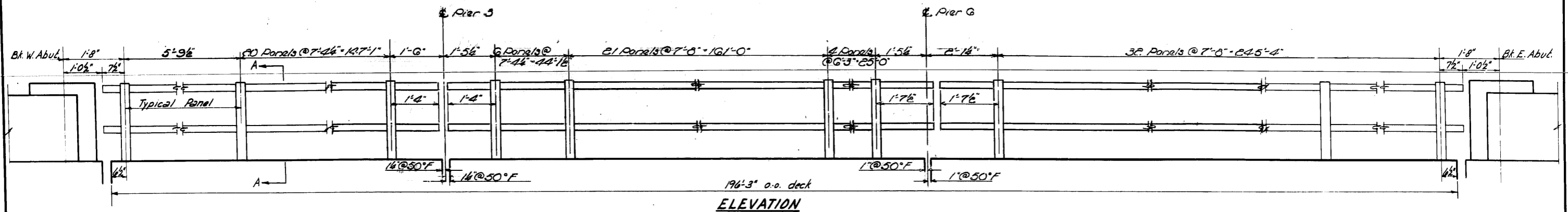
DESIGNED	R.P. Mowen	19
CHECKED	Campbell	EXAMINED
DRAWN	P. Lawler	PASSED
CHECKED	Campbell	APPROVED

ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
ENGINEER OF DESIGN
CHIEF HIGHWAY ENGINEER

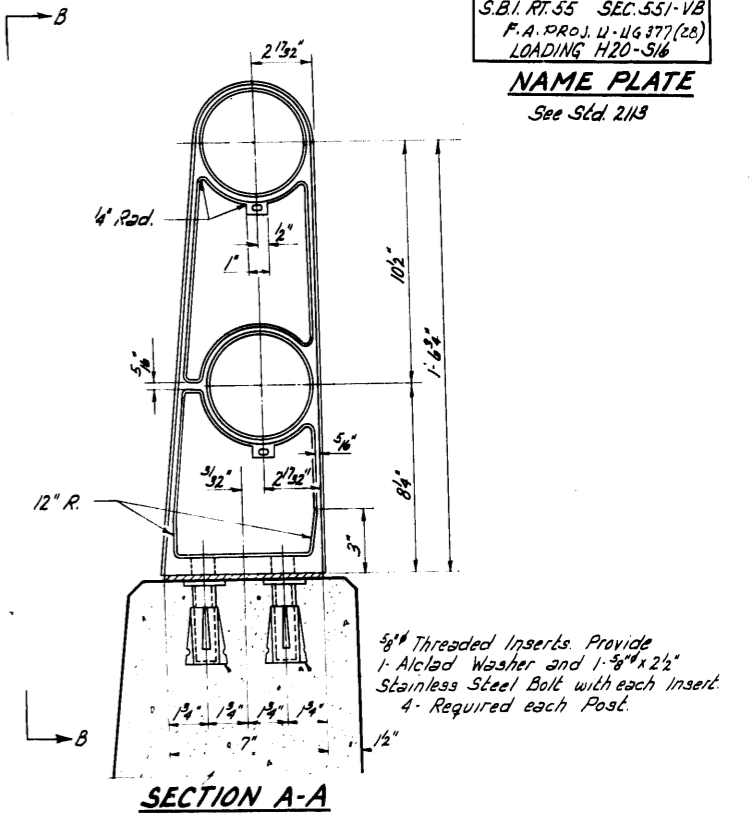
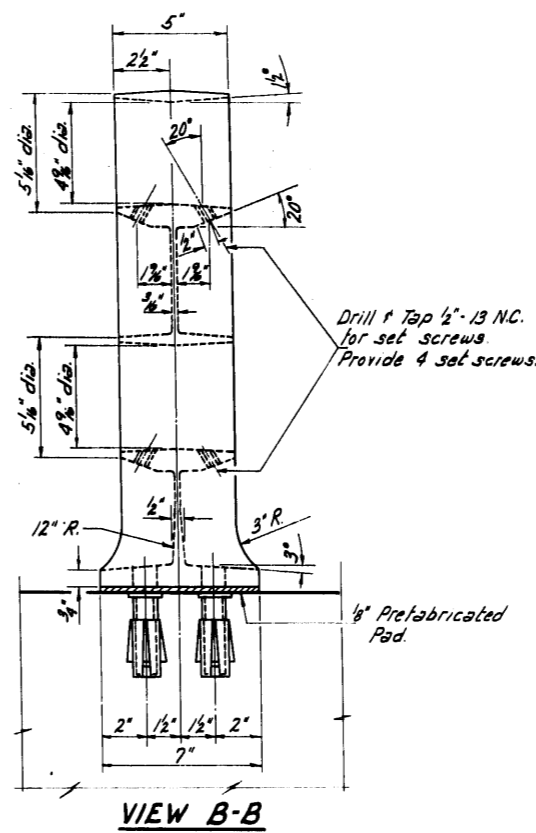
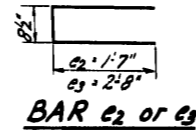
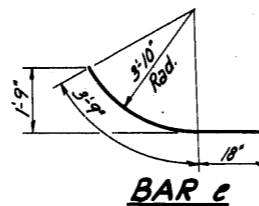
**HANDRAIL DETAILS
OVER 25TH AVE.
S.B.I. RT. 55 SEC. 551-VB
COOK COUNTY
STA. 274 + 34.38**

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 13A 28 SHEETS
S.B.I. 55	551-VB	COOK	57	42A	
F.A.					
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		



CAST END CAP
DRIVE FIT TYPE
2-4" Required
Incidental to item "Aluminum Handrail".



STA. 274+34.38
BUILT 19 BY
STATE OF ILLINOIS
S.B.I. RT. 55 SEC. 551-VB
F.A. PROJ. U-116377(28)
LOADING H20-S16
NAME PLATE
See Std. 2113

BILL OF MATERIAL

Class X Concrete	Cu.Yds	3.7
Reinforcement Bars	Lbs.	230
Aluminum Handrail	Lin. Ft.	1,272

NOTES

All Posts shall be placed normal to parapet.
All Posts shall be of Aluminum conforming to ASTM Specification B-108 alloy SG-70B-T6.
All Rail Tubing shall be of Aluminum conforming to ASTM Specification B-235 alloy GS-11A-T6.
Alclad Washers shall be made from sheet conforming to ASTM Specification B-209 alloy clad CG-42A-T4.
Rail Tubing may be cut to random lengths.
For material composition of Prefabricated Pad, See Article 54.9 (f), (Bearings and Anchorage), of the Standard Specifications.
Set screws shall be of Aluminum conforming to ASTM Specification B-211 alloy CG-42A-T4

BILL OF REINFORCEMENT

Bar	No.	Size	Length	Shape
e	16	#4	5'-9"	U
e ₁	24	#4	6'-6"	—
e ₂	8	#4	3'-10"	—
e ₃	8	#4	6'-0"	—
e ₄	8	#4	2'-3"	—

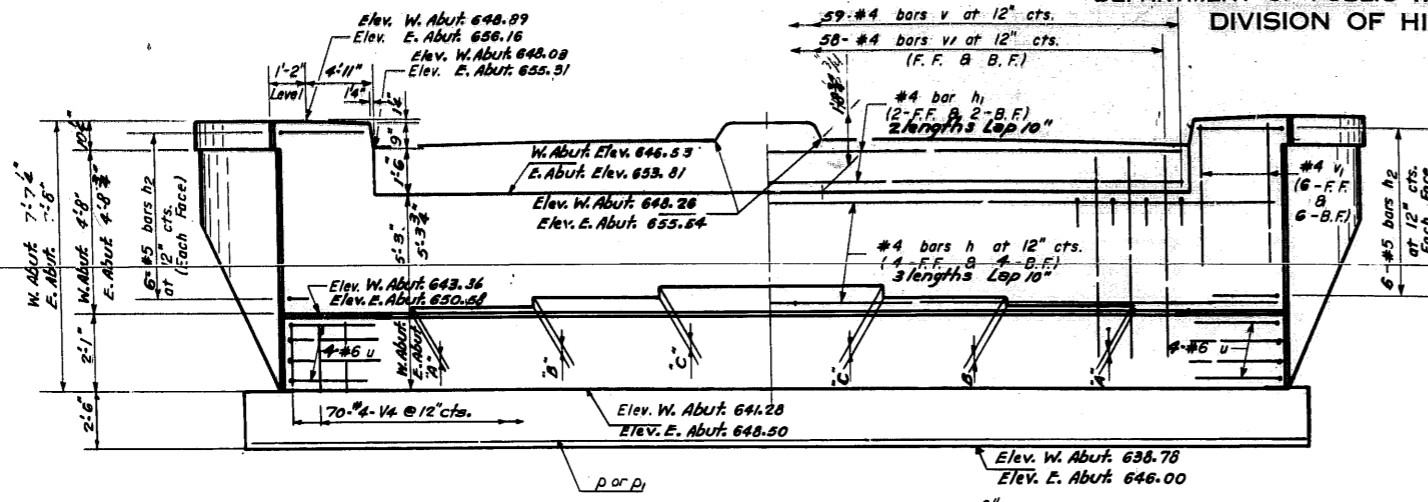
DESIGNED	P. Wauer
CHECKED	Campbell
DRAWN	P. Lawler
CHECKED	Campbell

EXAMINED	M. C. Bowman	JAN 19 1962
PASSED	C. J. Schmitt	
APPROVED	A. R. Prentiss	

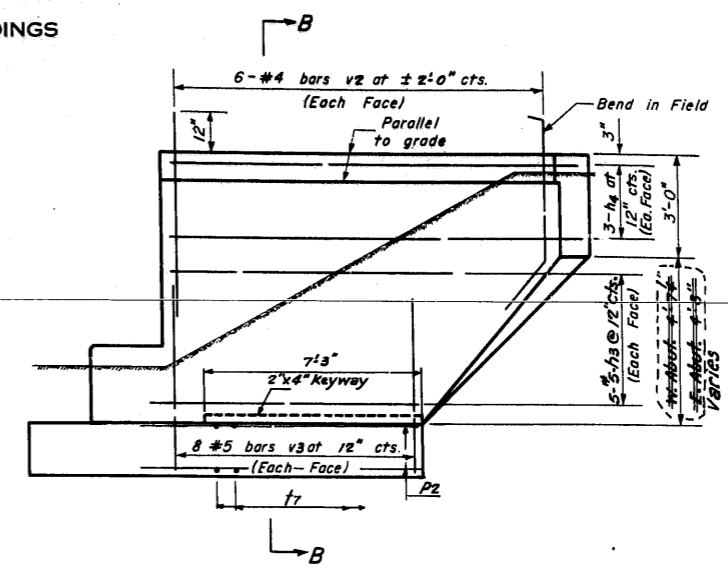
HANDRAIL DETAILS
OVER GARDNER ROAD & I.H.B. R.R.
S.B.I. RT. 55 SEC. 551-VB
COOK COUNTY
STA. 274 + 34.38

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

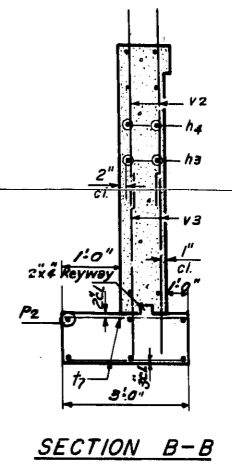
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	551-VB	COOK	97	43
SHEET NO 14 28 SHEETS				



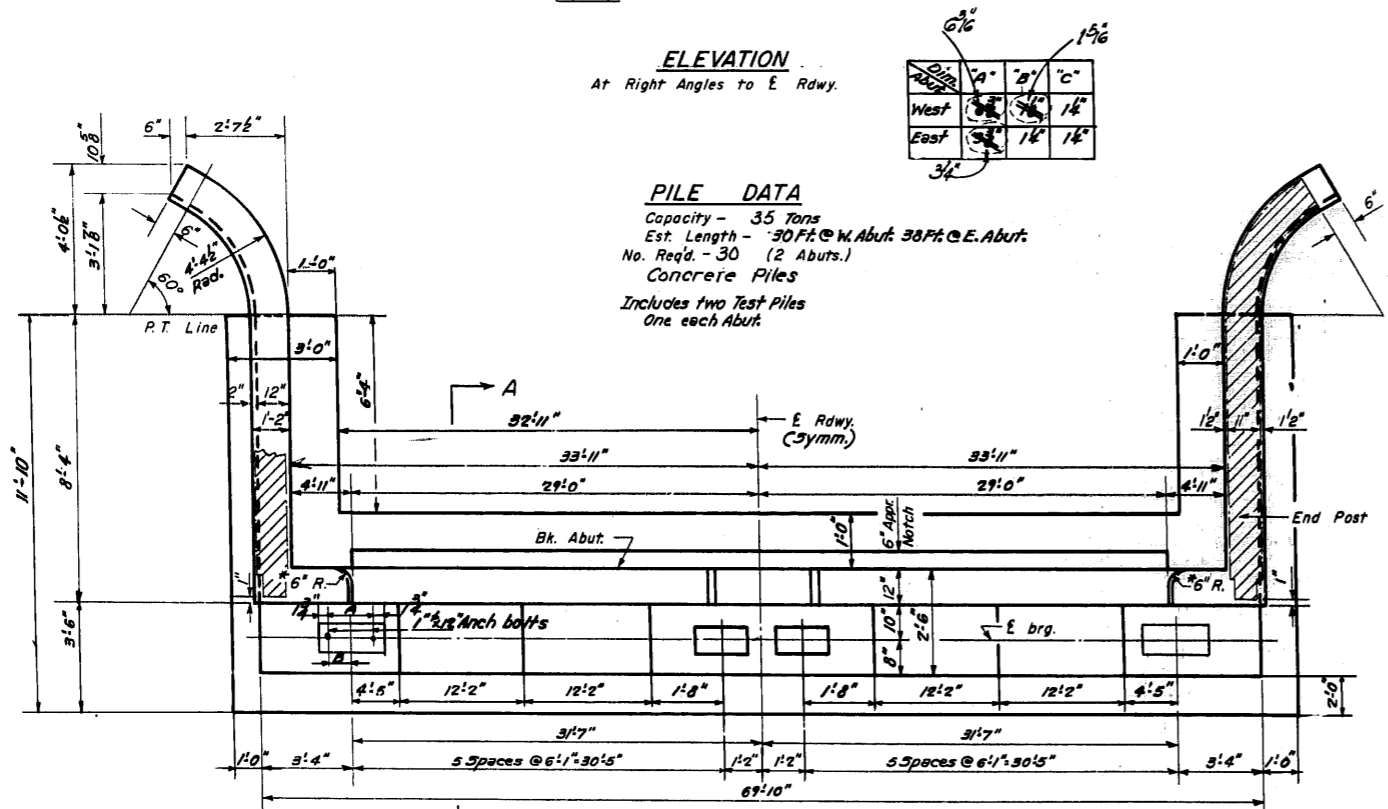
ELEVATION
At Right Angles to E. Row.



SIDE ELEVATION

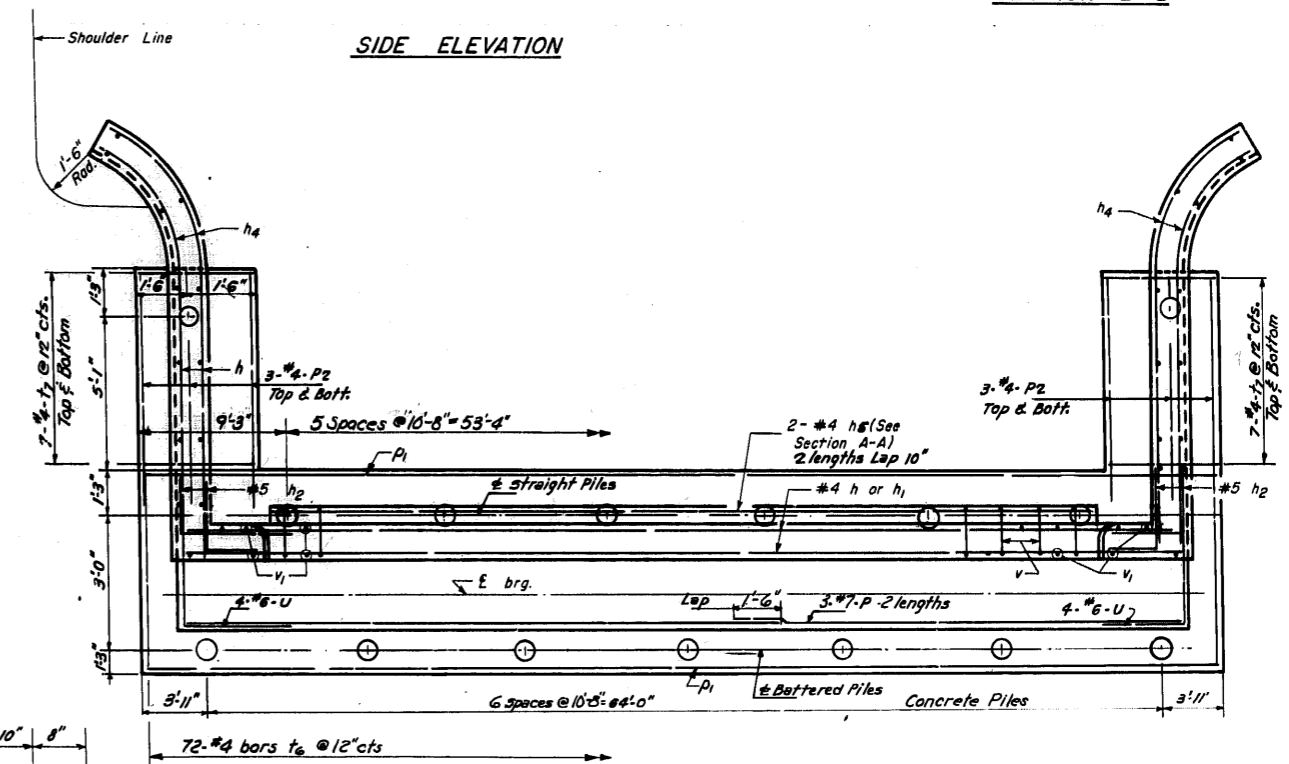


SECTION B-B



PILE DATA
Capacity - 35 Tons
Est. Length - 30 Ft. @ W. Abut 30 Ft. @ E. Abut.
No. Req'd. - 30 (2 Abuts.)
Concrete Piles
Includes two Test Piles
One each Abut.

PLAN OF ABUTMENT
Dimensions

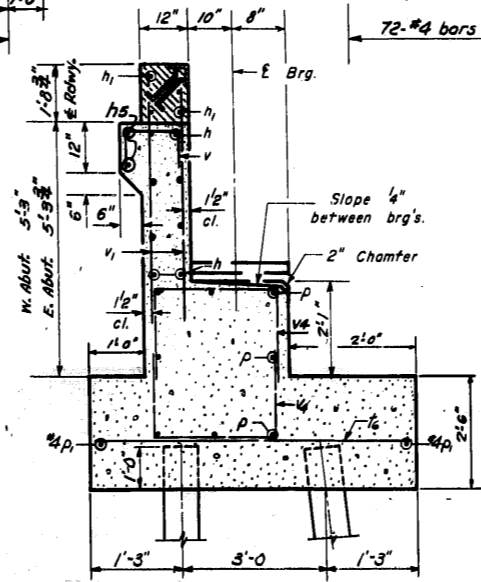
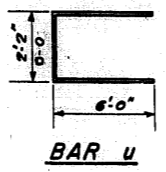
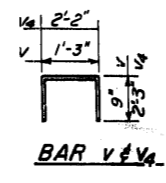
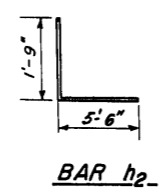
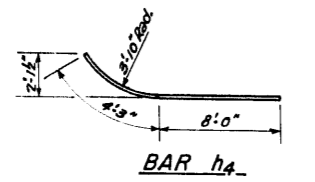


PLAN OF ABUTMENT
Reinforcement & Pile Spacing

BILL OF REINFORCEMENT							
Bar	No.	Size	Length	Shape	Bar	No.	Size
h	48	#4	23'9"	—	v1	144	#4
h1	16	#4	29'5"	—	v2	48	#4
h2	48	#5	7'3"	L	v3	16	#6
h3	40	#5	8'0"	—	v4	118	#4
h4	24	#5	12'3"	—	v5	280	#4
h5	8	#2	29'4"	—	v6	48	#4
p	32	#7	35'8"	—	v7	64	#5
p1	12	#2	24'6"	—	v8	280	#4
p2	24	#4	7'3"	—	u	280	#4

BILL OF MATERIAL		
Item	Unit	Quantity
Class X Concrete	Cu Yd.	143.7
Reinforcement Bars	Lb.	9090
Concrete Piles	Lin. Ft.	952
Test Piles (Conc.)	Each	2

ANCHOR BOLT SPACING			
Abut.	Beam	A	B
West	2R.R.	11'8"	8'5"
East	2R.R.	11'5"	8'5"
West	1R.R.	11'5"	8'5"
East	1R.R.	11'4"	8'4"



SECTION A-A

DESIGNED *Ronald C. Pitz*
CHECKED *Flayd E. Jordan*
DRAWN *R. W. A. Sausanjan*
CHECKED *J. H. J.*
EXAMINED *July 29 1959*
PASSED *Ed. S. Shultz*
APPROVED *R.R. Bartles*

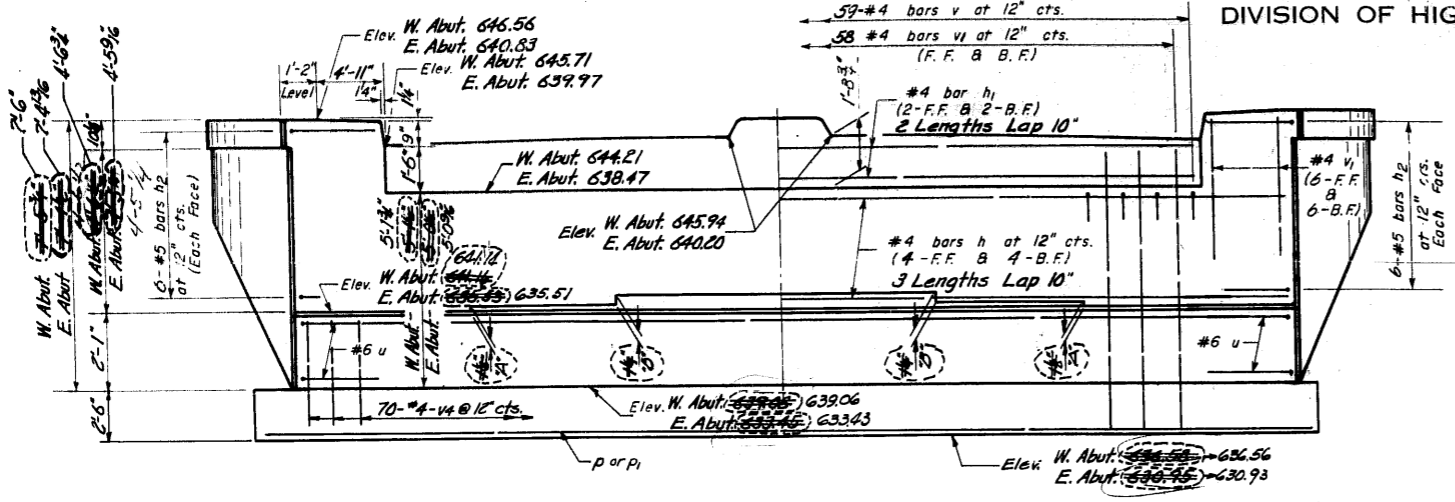
ABUTMENTS
BRIDGE OVER GARDNER ROAD & I.H.B. R.R.
S.B.I. R. 55- SEC. 551-VB
COOK COUNTY
STA. 274+34.38

A-3 Drawn 5-21-58

Revised 6/11/61 Changed slope thickness as shown in Table A-21. In SIDE ELEVATION changed dimensions of back end of wing wall to vary as shown in Table A-21.

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

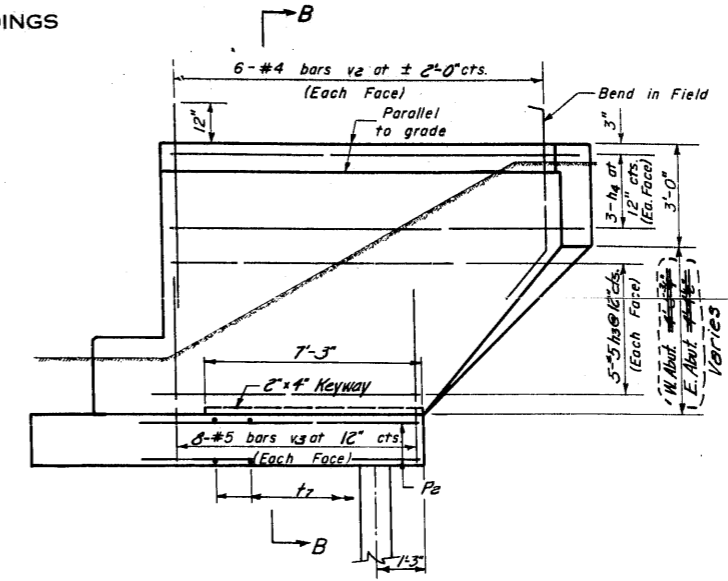
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 15
S.B.I.	551-VB	COOK	57	44	28 SHEETS
FED. ROAD DIST. NO. 7	ALLIANCE	FED. AID PROJECT			



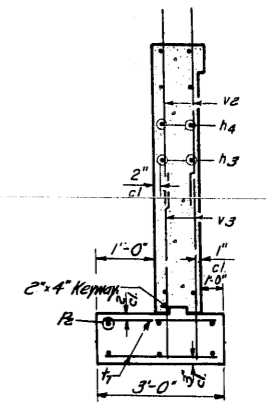
ELEVATION

At Right Angles to E. Rdwy.

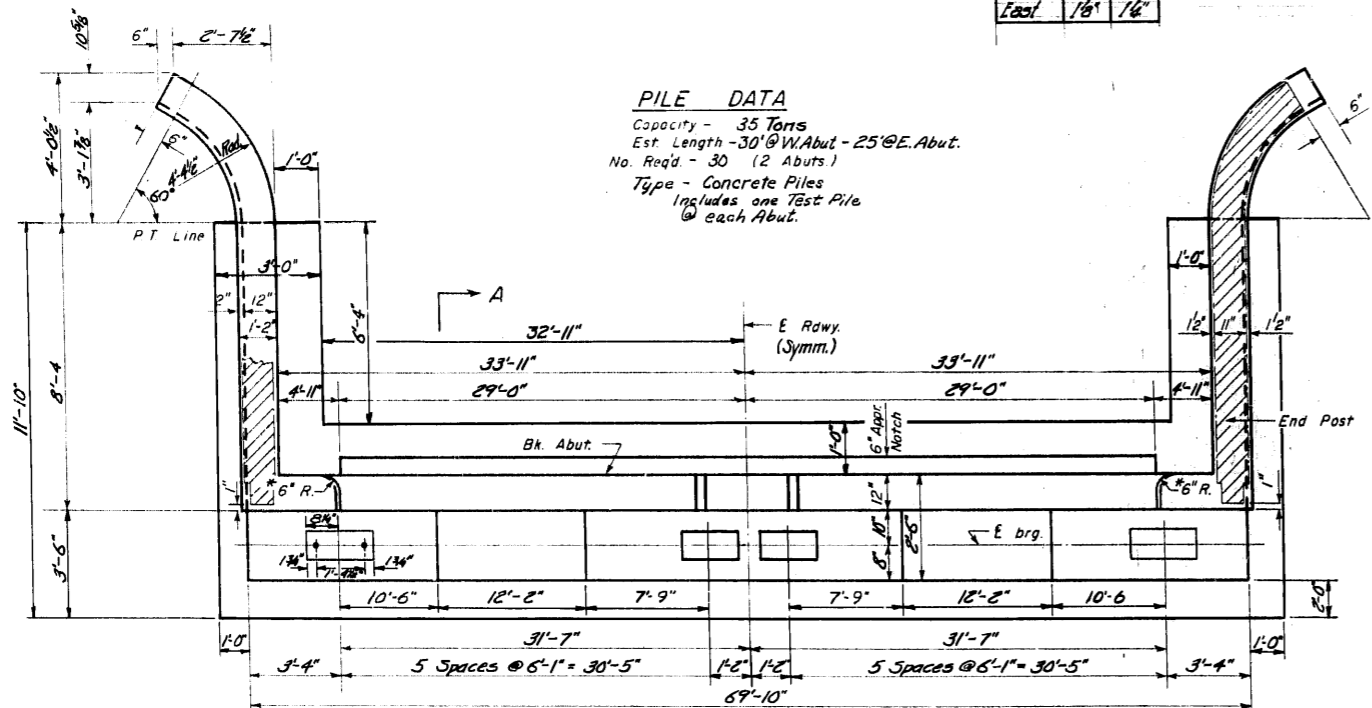
Abut.	A	B
West	14'	16'
East	16'	16'



SIDE ELEVATION



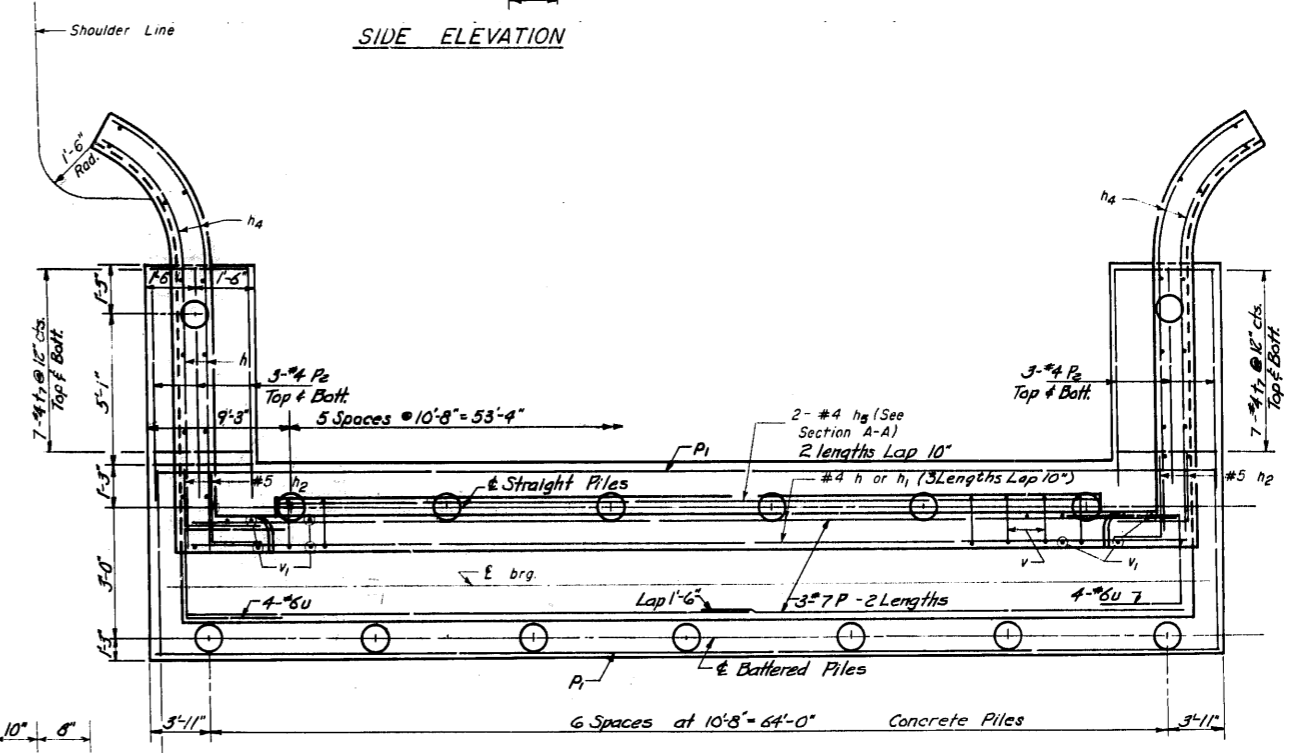
SECTION B-B



PLAN OF ABUTMENT

Dimensions

PILE DATA
Capacity - 35 Tons
Est. Length - 30' @ W. Abut. - 25' @ E. Abut.
No. Req'd. - 30 (2 Abuts.)
Type - Concrete Piles
Includes one Test Pile @ each Abut.



PLAN OF ABUTMENT

Reinforcement & Pile Spacing

BILL OF REINFORCEMENT

Bar	No.	Size	Length	Shape	Bar	No.	Size	Length	Shape
h	48	#4	25'-9"	—	t6	144	#4	5'-3"	—
h1	16	#4	29'-5"	—	t7	56	#4	2'-9"	—
h2	48	#5	7'-3"	L					
h3	40	#5	8'-0"	—	u	16	#6	14'-2"	□
h4	24	#5	12'-3"	—					
h5	8	#4	20'-4"	—	v	118	#4	2'-1"	□
P	32	#7	35'-8"	—	v1	280	#4	6'-6"	—
A	12	#4	24'-6"	—	v2	48	#4	5'-6"	—
Pz	24	#4	7'-3"	—	v3	64	#5	6'-0"	—
					v4	280	#4	6'-8"	□

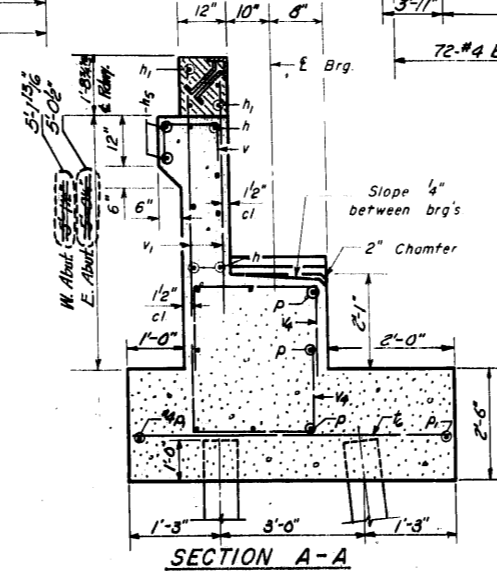
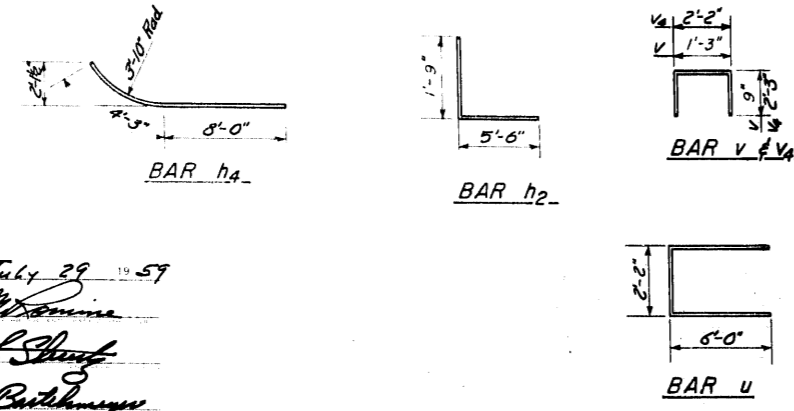
BILL OF MATERIAL

Item	Unit	Quantity
Class X Concrete	Cu Yd	140.2
Reinforcement Bars	Lb	9070
Concrete Piles	Lin. Ft.	770
Test Pile (Concrete)	Each	2

ABUTMENTS
CERMAK ROAD OVER 25TH AVE.
S.B.I. RT. 55 - SECTION 551-VB
COOK COUNTY
STATION 274+34.38

DESIGNED: Ronald C. Pitz
CHECKED: Donald K. Janssen
W.A. Sausaman
F. Tiley
W.R. S.

EXAMINED: July 29 1957
F. J. Sausaman
E. J. Sausaman
R. R. Butcher

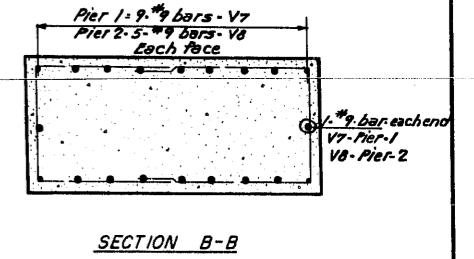
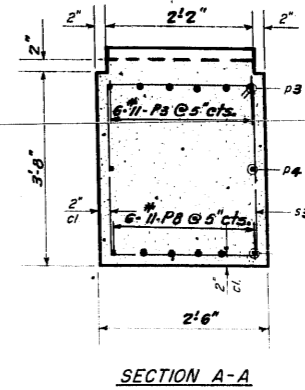
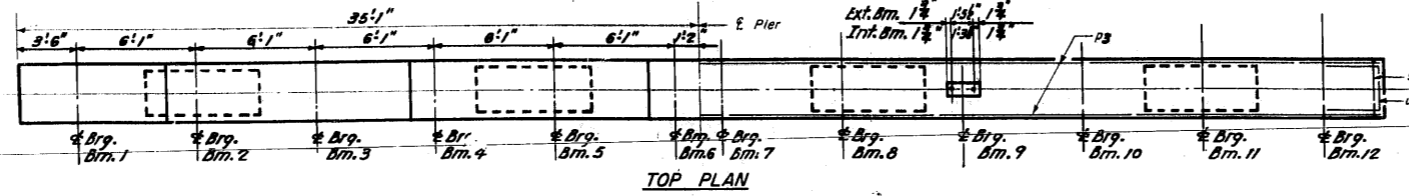


SECTION A-A

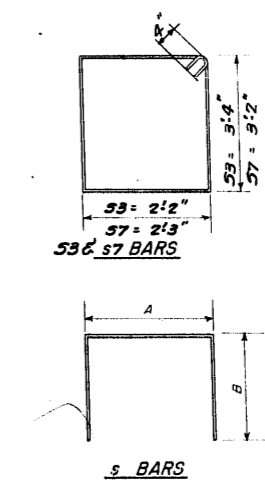
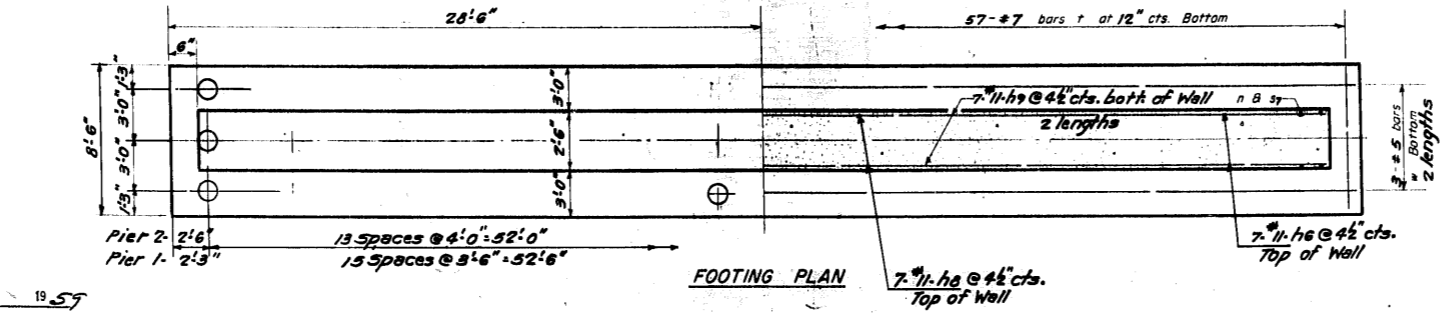
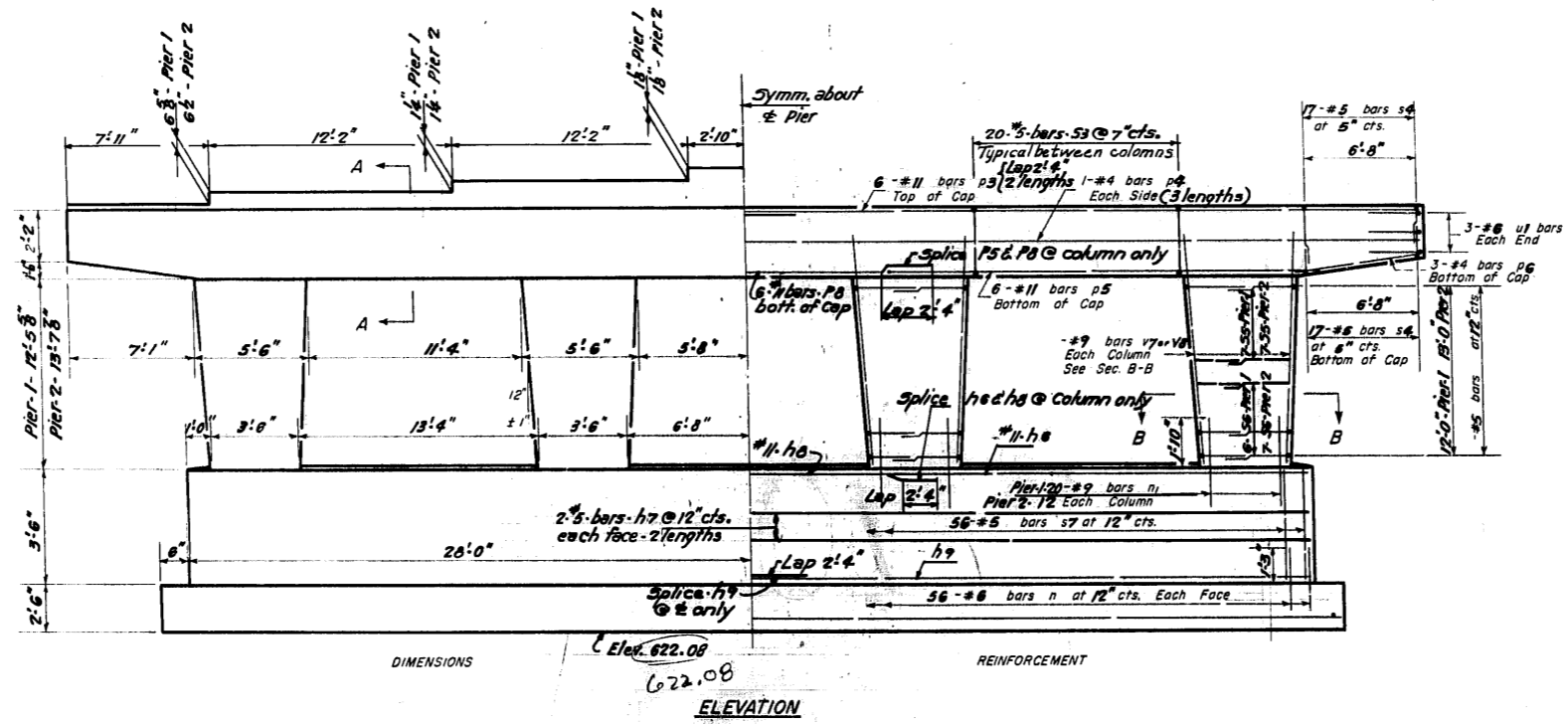
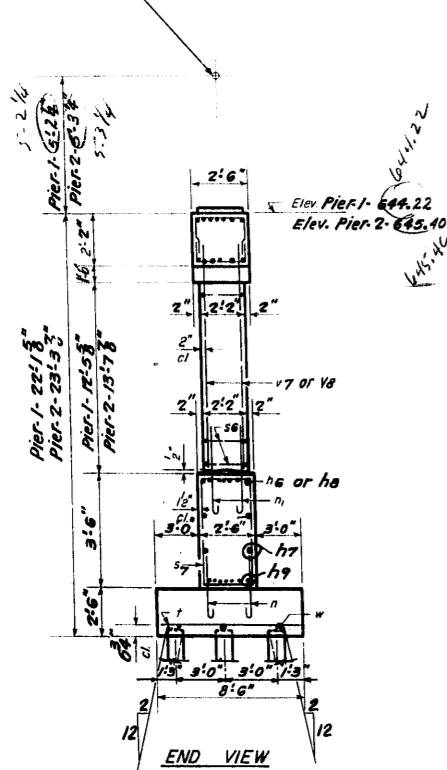
Revised: 8/31/51 Changed dimensions at front face of Abut., elevations of seat and steps
thicknesses as shown in ELEVATION drawings
In SIDE ELEVATION changed dimensions of base and of support to vertical J.A.B.

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

ROUTE NO. S.A. 55	SECTION 551-VB	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 45	SHEET NO. 16 28 SHEETS
F.A.		ILLINOIS FED. AID PROJECT			



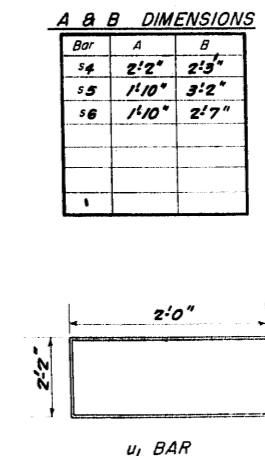
Pier 1 Sta. 269+70.47
Cr. Elev. 649.91
Pier 2 Sta. 270+29.55
Cr. Elev. 650.67



PIERS 1&2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h6	14	#11	20'7"	□
h7	16	#5	28'6"	□
h8	14	#11	37'4"	□
n	224	6	3'2"	□
n	128	9	3'3"	□
h9	28	#11	29'4"	□
p3	11	#11	36'2"	□
p4	12	#11	29'11"	□
p5	12	#11	20'11"	□
p6	12	#11	7'10"	□
p8	12	#11	37'9"	□
s3	120	#5	11'8"	□
s4	136	#5	6'9"	□
s5	112	#5	8'2"	□
s6	104	#5	7'0"	□
t	114	#7	8'3"	□
u	12	#6	6'2"	□
v7	80	#9	14'4"	□
v8	48	#9	15'6"	□
w	12	#5	29'0"	□

Class X Concrete Cu Yds 216.9
Reinforcement Bars Lbs 35,340
Creosoted Piles L.in. Ft 1385
Test Piles (Creo. Timber) Each /
Metal Shoe s Each 69



PIERS 1&2
S.B.I. Rt. 55-SEC. 551-VB
COOK COUNTY
STA. 274+34.38

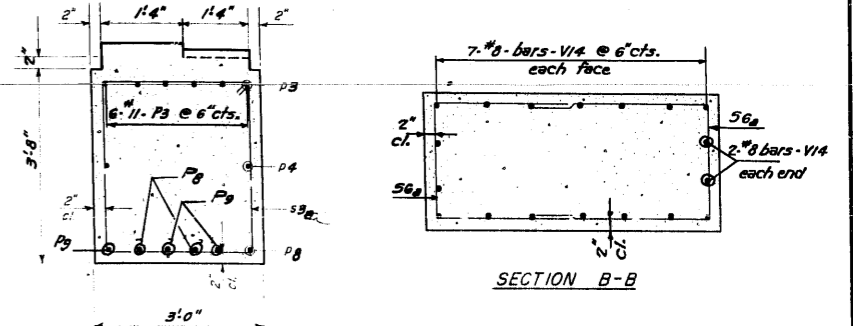
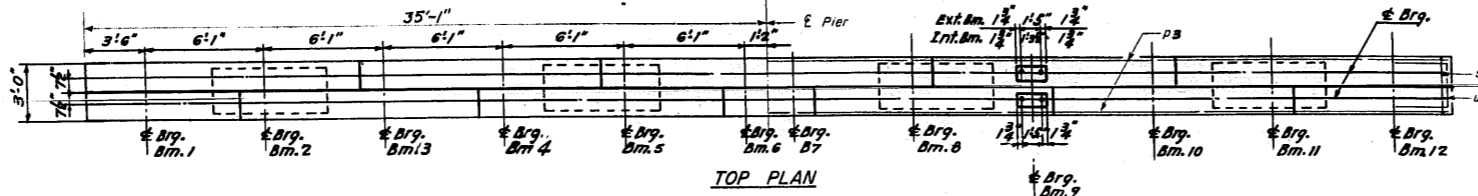
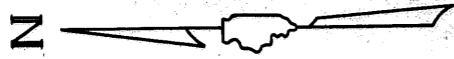
DESIGNED *Ronald C. Pitt*
CHECKED *Edmund K. ...*
DRAWN *R.P. W.A. Sausamon*
CHECKED *F.K.G.*

EXAMINED *July 29 1957*
PASSED *...*
APPROVED *...*

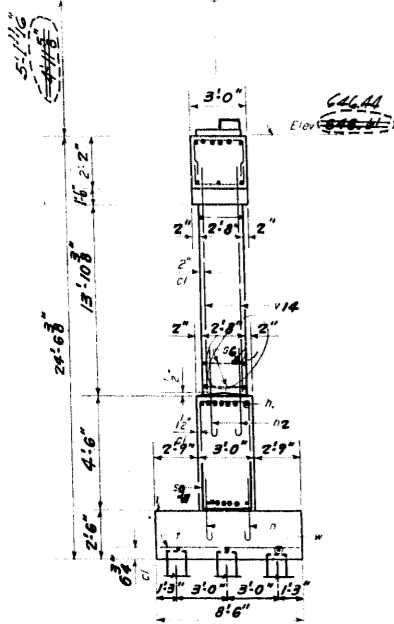
Note:
Batter Alternate Piles in
outside Rows (Pier 1 only)

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 177 28 SHEETS
55	551-VB	COOK	57	46	
F.A.		ILLINOIS	FED. AID PROJECT		



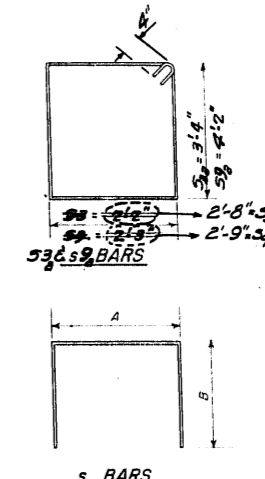
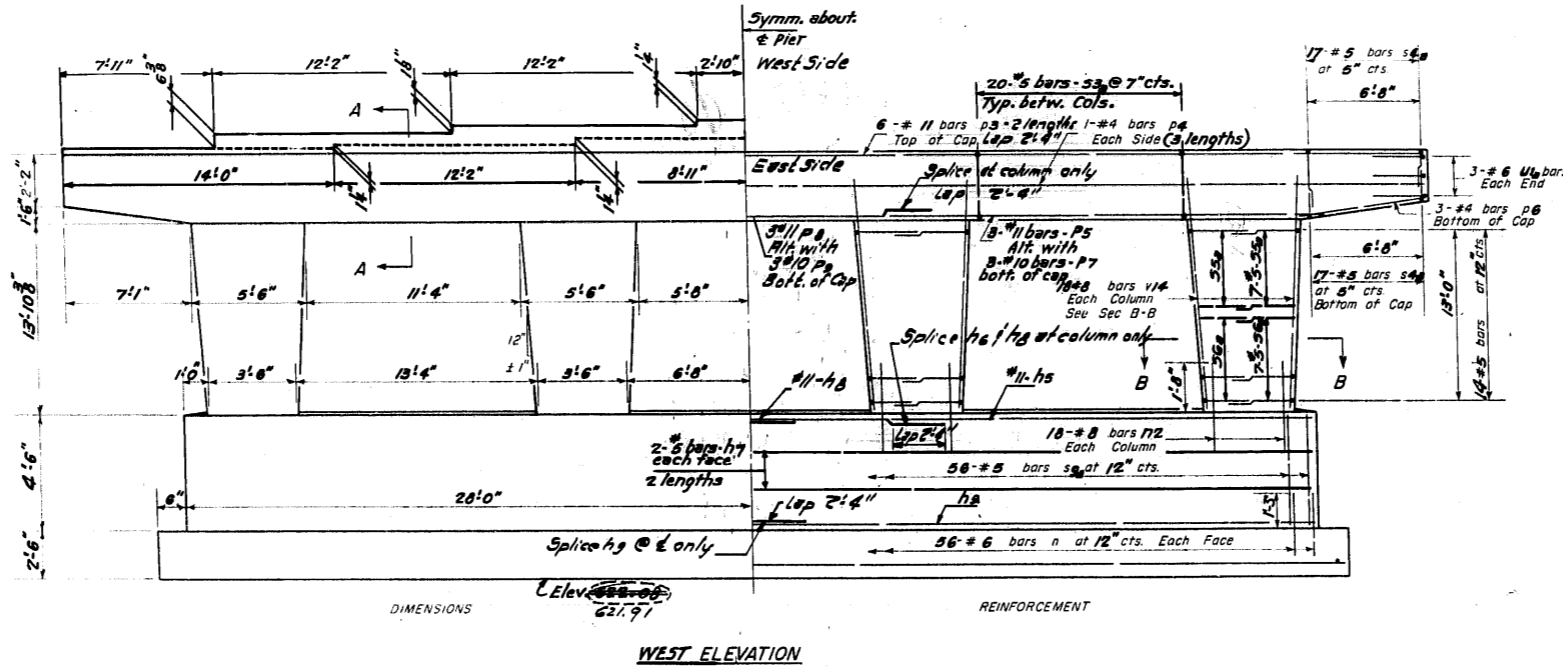
Pier 3 Sta. 270+77.43
Cr. Elev. 651.58



END VIEW

Note: All insets shall have standard 1/8" chamfer except as noted.

Created Piles
Capacity - 20 Tons
Est. Length - 15 Ft.
No. Reft. - 42
Equip. with American all steel
pile shoe, Number 2 or Equal



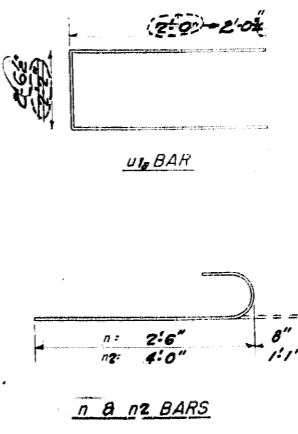
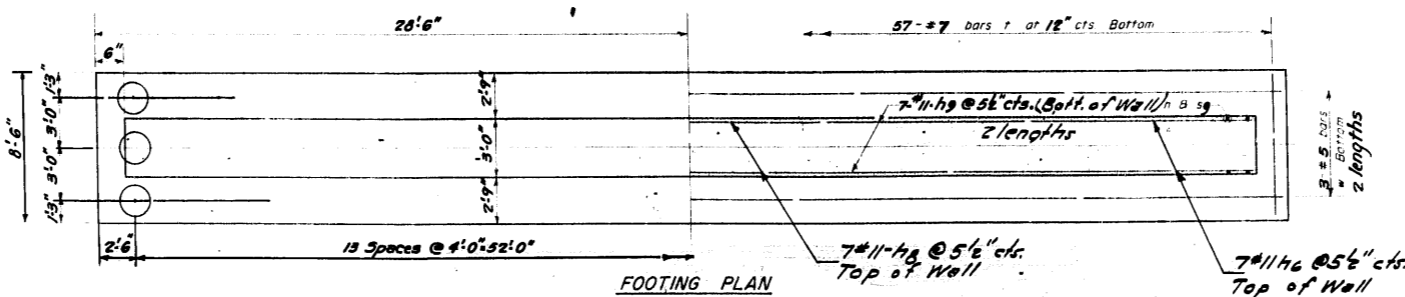
A B DIMENSIONS

Bar	A	B
#8	2'-8"	2'-3"
#5	2'-5"	3'-2"
#6	2'-5"	2'-7"

PIER 3
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
#6	7	#5	20'-7"	
#7	8	#5	20'-6"	
#8	7	#11	37'-4"	
n	112	#6	3'-2"	
n2	72	#8	5'-1"	
#9	14	#11	29'-0"	
#3	12	#11	86'-2"	
#4	6	#4	28'-11"	
#5	3	#11	20'-11"	
#6	6	#4	7'-10"	
#7	3	#10	20'-11"	
#3	60	#5	10'-10"	
#4	68	#5	7'-9"	
#5	56	#5	8'-9"	
#6	56	#5	7'-9"	
#3	56	#5	14'-6"	
#8	3	#11	37'-9"	
#9	3	#10	37'-9"	
#	57	#7	8'-3"	
#6	6	#6	6'-8"	
#14	72	#8	15'-8"	
#	6	#5	29'-0"	

Class 4 Concrete Cu lbs 128.1
Reinforcement Bars lbs (17,370) 17,510
Crested Piles Lin. Ft. 630
Metal Shoes Each 42



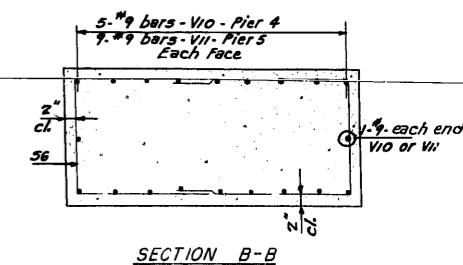
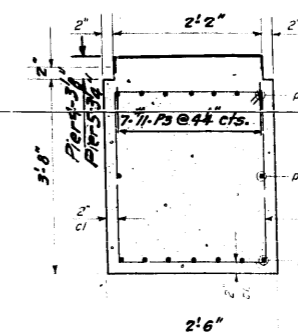
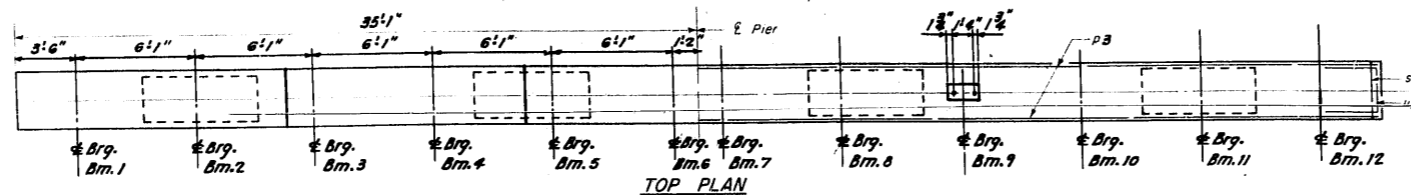
DESIGNED	Ronald C. Pitz	EXAMINED	July 29 19 57 [Signature]
CHECKED	[Signature]	PASSED	[Signature]
DRAWN	W.A. Sauson	APPROVED	[Signature]
CHECKED	[Signature]		

PIER 3
S.B.I. Rt. 55-551-VB
COOK COUNTY
STA. 274+34.38

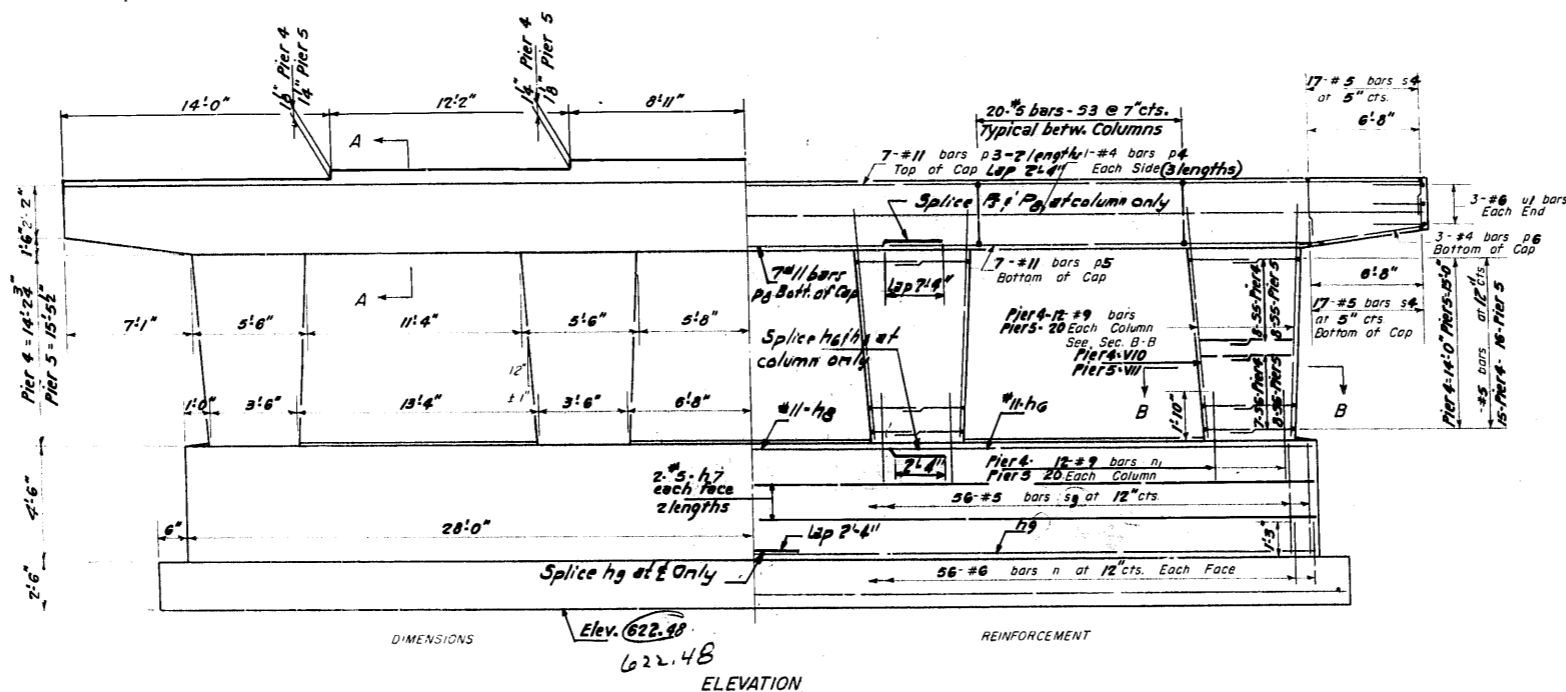
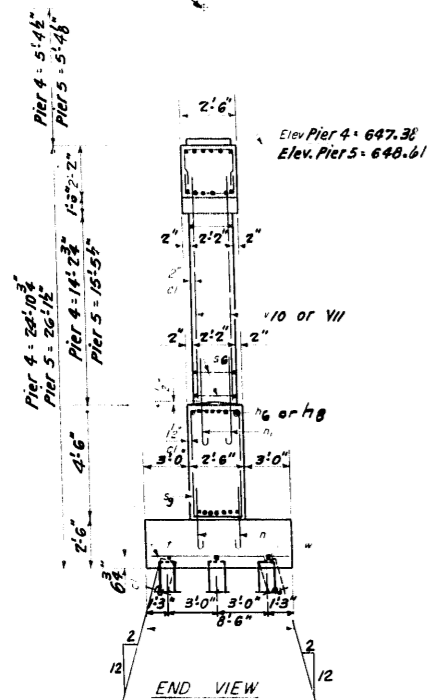
Revised 7/11/61 J.E.K. Changed dimensions and designations of bars #3, #5, #6, #7, #8, #9, #11, #12, #14, #15, #16, #17, #18, #19, #20, #21, #22, #23, #24, #25, #26, #27, #28, #29, #30, #31, #32, #33, #34, #35, #36, #37, #38, #39, #40, #41, #42, #43, #44, #45, #46, #47, #48, #49, #50, #51, #52, #53, #54, #55, #56, #57, #58, #59, #60, #61, #62, #63, #64, #65, #66, #67, #68, #69, #70, #71, #72, #73, #74, #75, #76, #77, #78, #79, #80, #81, #82, #83, #84, #85, #86, #87, #88, #89, #90, #91, #92, #93, #94, #95, #96, #97, #98, #99, #100. Revised 9/1/61 Dimension from Top of Pier to Cr. of Ret. abut. from 21.73' to 51.16'. Elevations at Top of Pier and Bot. of Ret. abut. from 666.61 to 666.66 & from 652.08 to 652.91. J.E.K.

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. /B 28 SHEETS
55	551-VB	COOK	57	47	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		



± Pier 4 Sta. 271+48.80
Cr. Elev. 652.76
± Pier 5 Sta. 272+39.05
Cr. Elev. 653.96



SECTION A-A

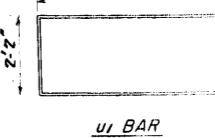
PIERS 4 & 5
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n6	14	#11	20'7"	—
n7	16	#5	28'6"	—
n8	14	#11	37'4"	—
n	224	#6	3'2"	—
n	128	#9	5'3"	—
n9	28	#11	29'0"	—
p3	28	#11	36'2"	—
p4	12	#4	23'11"	—
p5	14	#11	20'11"	—
p6	12	#4	7'10"	—
p8	14	#11	37'5"	—
s3	120	#5	11'8"	□
s4	136	#5	6'8"	□
s5	128	#5	8'2"	□
s6	120	#5	7'0"	□
s9	112	#5	18'6"	□
t	114	#7	8'3"	—
u1	12	#6	6'2"	—
v10	48	#9	16'0"	—
vii	80	#9	17'4"	—
w	12	#5	29'0"	—

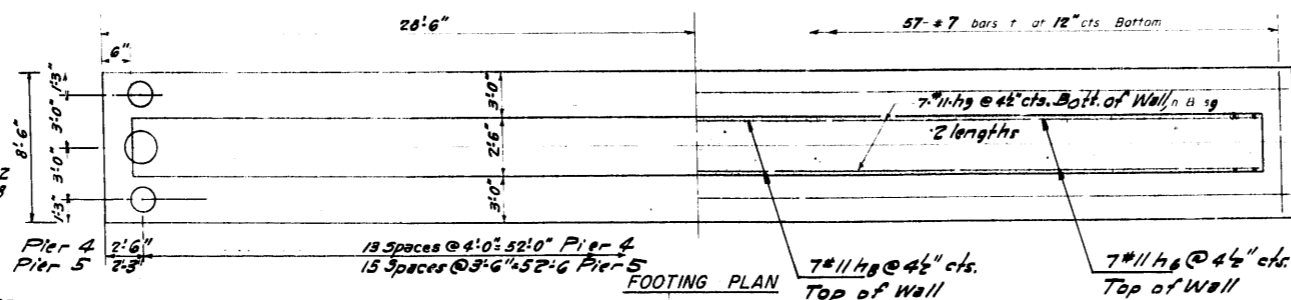
A & B DIMENSIONS

Bar	A	B
s4	2'2"	2'3"
s5	1'10"	3'2"
s6	1'10"	2'7"

u1 BAR



n & n1 BARS



FOOTING PLAN

Creosoted Piles
Capacity = 20 Tons
Est. Length = 15 Ft.
No. Reqd. = 90 (2 Piers - includes one test pile at Pier 4)
Equip with American all steel pile shoe
Number 2 or Equal

DESIGNED	Ronald C. Pitz
CHECKED	Ronald K. Jacobson
DRAWN	R.E.P. W.A. Sausman
CHECKED	R.K.P.

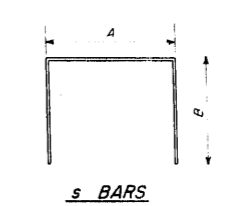
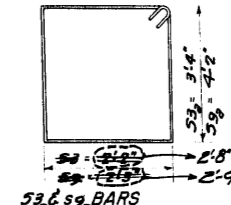
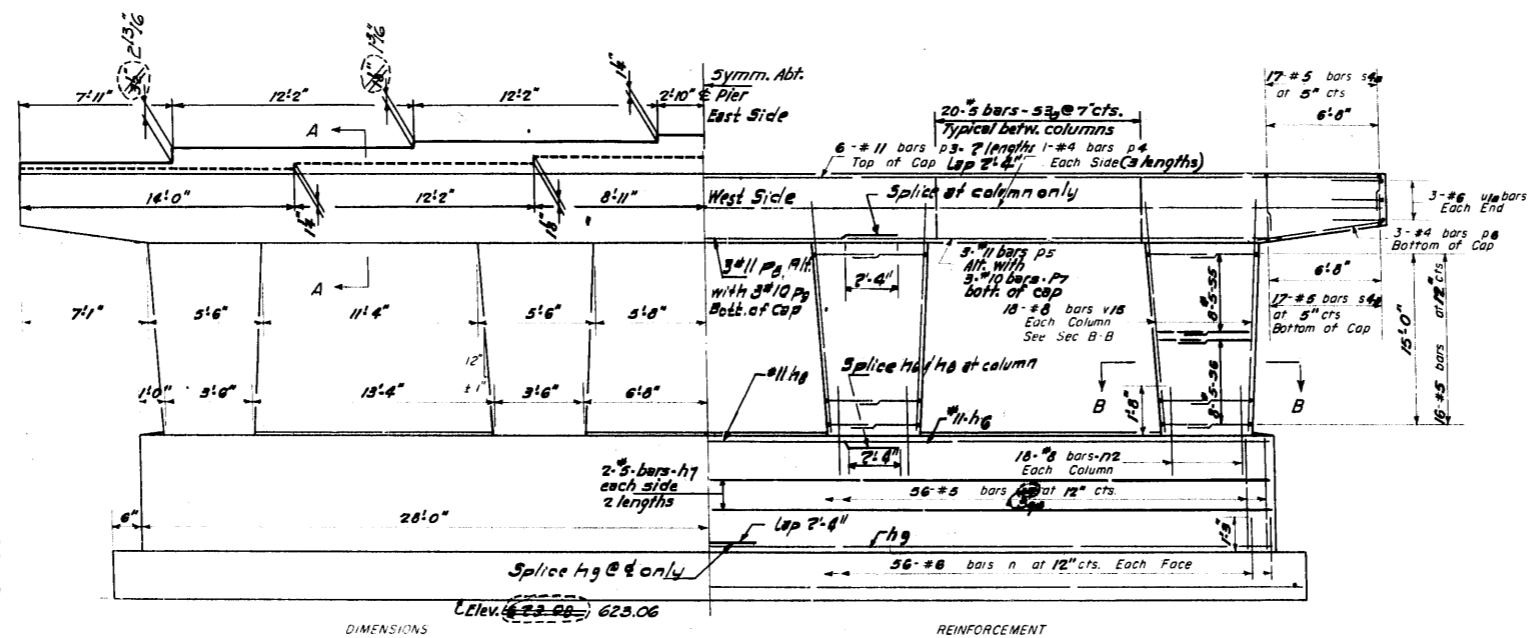
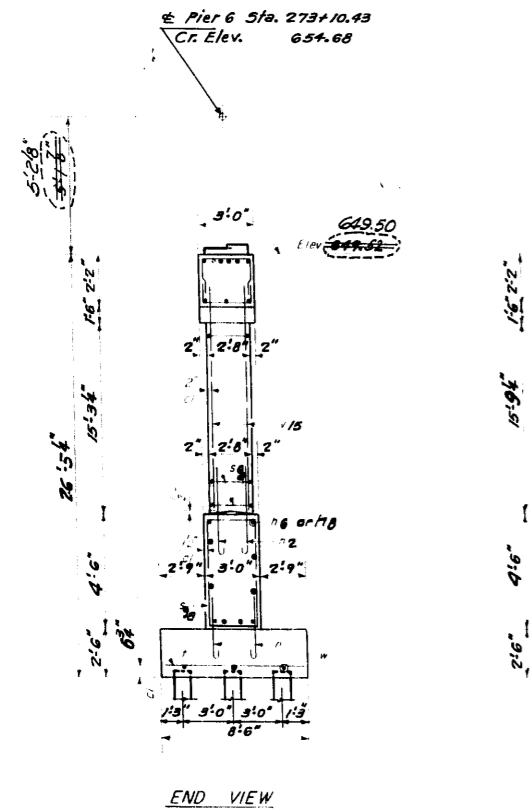
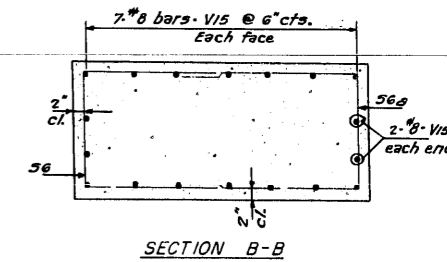
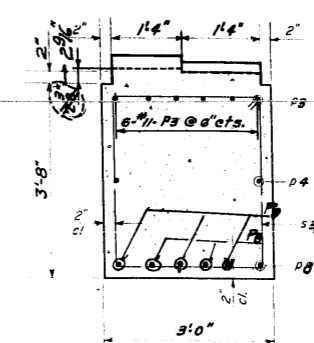
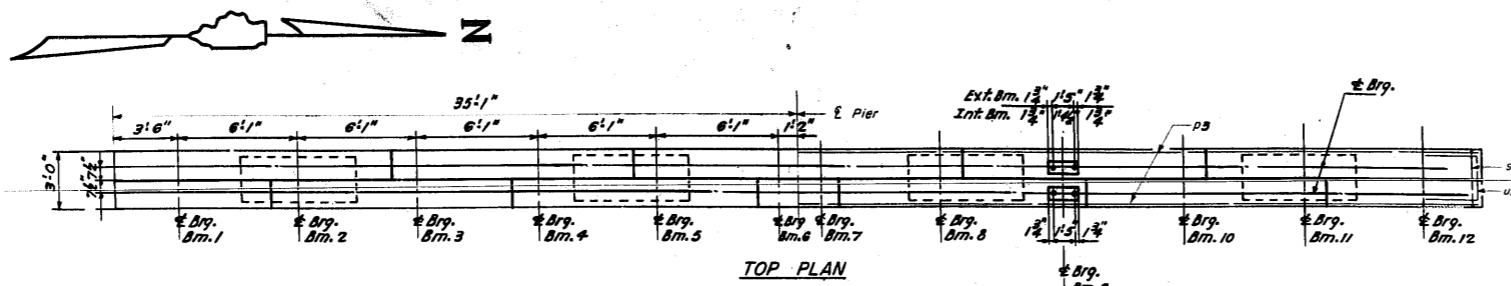
EXAMINED	July 29 1959
PASSED	E.P. Shurt
APPROVED	R.R. Bartholomew

NOTE:
Batter Alternate Piles in
outside Rows (Pier 5 only).

PIERS 4 & 5
S.B.I. Rr. 55-SEC. 551-VB
COOK COUNTY
STA. 274+34.38

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

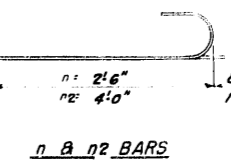
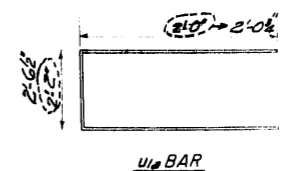
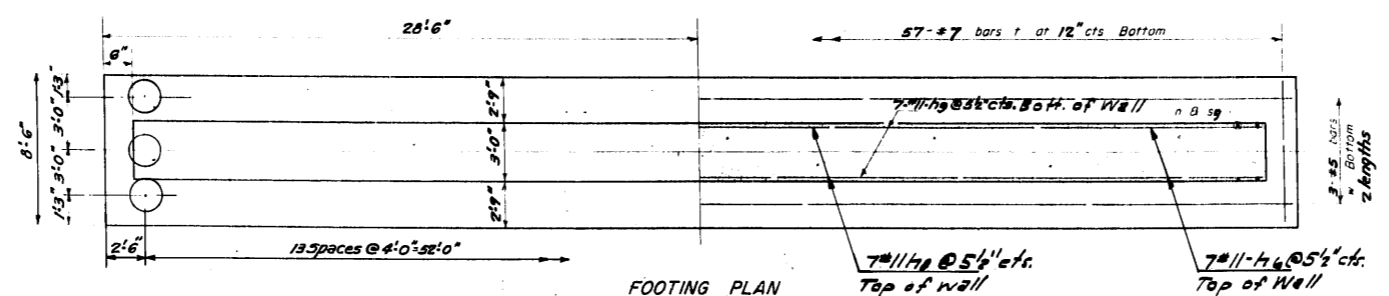
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 19
55	551-VB	COOK	57	48	28 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	



PIER 6
BILL OF MATERIAL

Bar	No	Size	Length	Shape
h6	7	#11	20'-7"	—
h7	8	#5	28'-6"	—
h8	7	#11	37'-4"	—
n	112	#8	3'-2"	—
n2	72	#8	3'-1"	—
h9	14	#11	29'-0"	—
p3	12	#11	36'-2"	—
p4	6	#4	28'-11"	—
p5	3	#11	20'-11"	—
p6	6	#4	7'-10"	—
p7	3	#10	20'-11"	—
s3	60	#5	12'-10"	—
s4	68	#5	7'-2"	—
s5	64	#5	8'-9"	—
s6	64	#5	7'-7"	—
s7	56	#5	14'-6"	—
p8	3	#11	37'-9"	—
p9	3	#10	37'-9"	—
t	57	#7	8'-3"	—
u1	6	#6	6'-8"	—
v15	72	#8	17'-2"	—
w	6	#5	29'-0"	—

Class X Concrete Cu yds 130.9
Reinforcement Bars Lbs 17,890 17,940
Creosoted Piles Lin. Ft. 575
Test Piles (Creo. Timb.) Each 1
Metal Shoes Each 41



DESIGNED *Ronald C. Pelt*
CHECKED *Edward K. Pender*
DRAWN *R.E.P. W.A. Sausan*
CHECKED *F.H.G.*

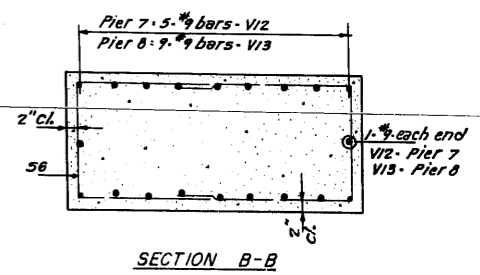
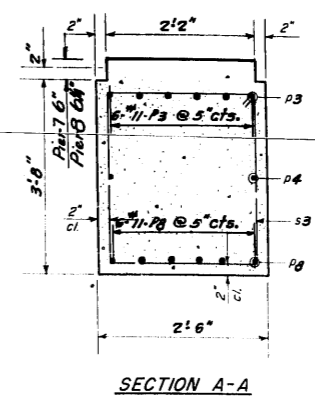
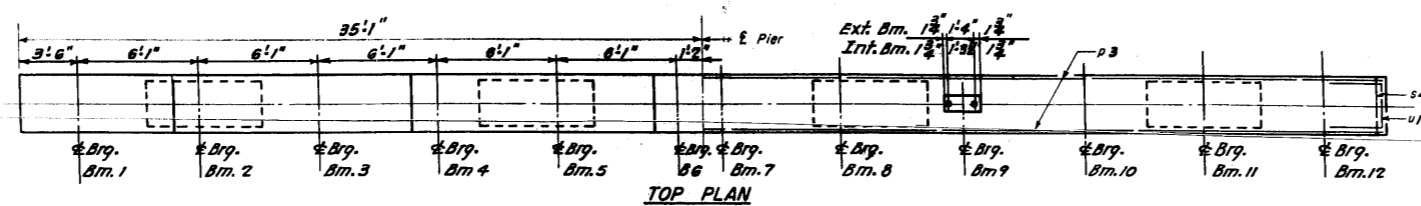
EXAMINED *July 29 1959*
PAIRED *E.F. Smith*
APPROVED *R.C. Pender*

Creosoted Piles
Capacity 20 Tons
Est. Length 15 Ft.
No. Req'd. 42 (Test Pile included)
Equip. with American all steel
pile shoe. Number 2 or Equal.

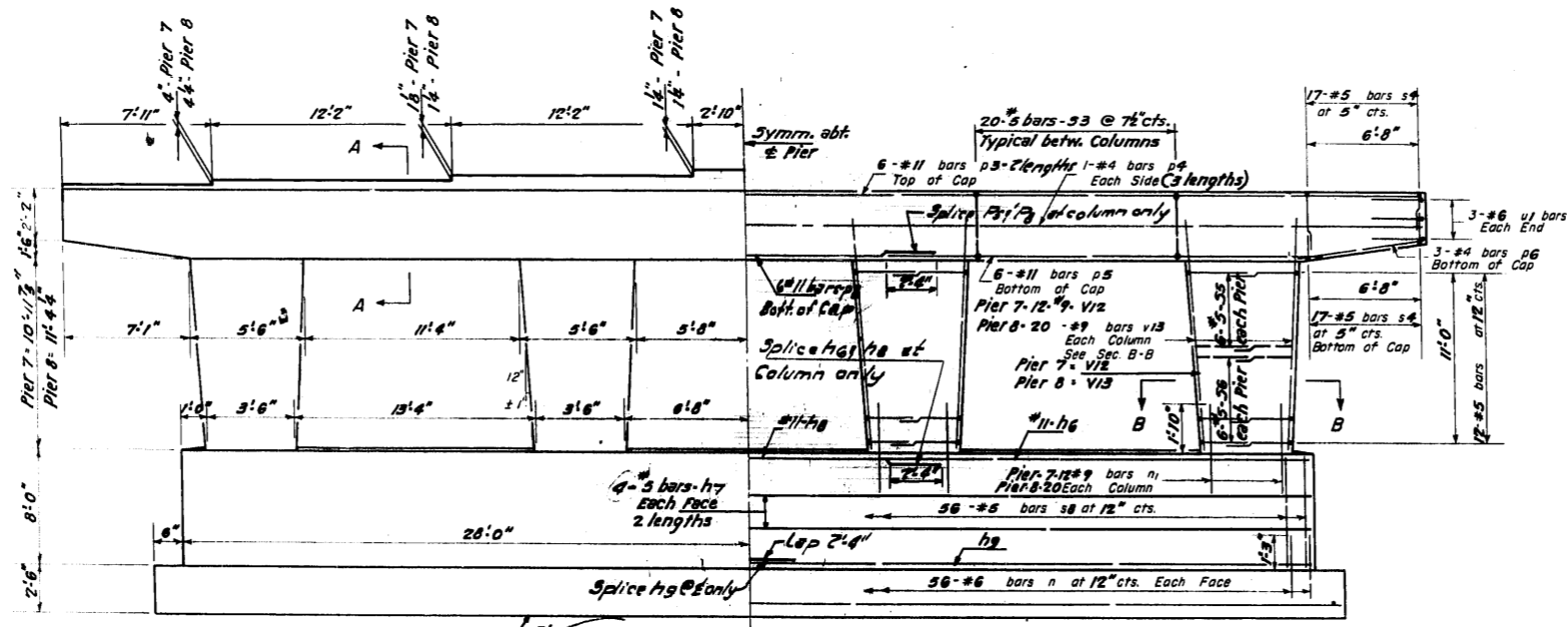
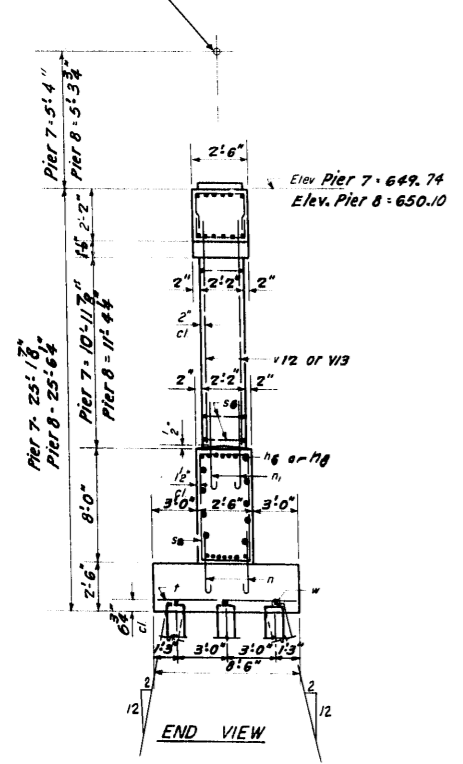
Revised 9/1/61 J.E.R. Changed dimension and designation of bars s3, s4, s5, s6, s7, s8, s9, s10, s11, s12 shown in detail of s3, s4, s5, s6, s7, s8, s9, s10, s11, s12. Revised 9/1/61 - Dimension from Top of Pier to Cr. of Column, changed from 5'-10" to 5'-2 1/2". Elevation at top of Pier changed from 649.50 to 649.00. Quantity of Reinf. Bars changed from 17,890 Lbs. to 17,940 Lbs. Revised 9/1/61 - Dimension from Top of Pier to Cr. of Column, changed from 5'-10" to 5'-2 1/2". Elevation at top of Pier changed from 649.50 to 649.00. Quantity of Reinf. Bars changed from 17,890 Lbs. to 17,940 Lbs.

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

ROUTE NO. S. B. L. 55	SECTION 551-VB	COUNTY Cook	TOTAL SHEETS 57	SHEET NO. 49	SHEET NO. 20- 28 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	

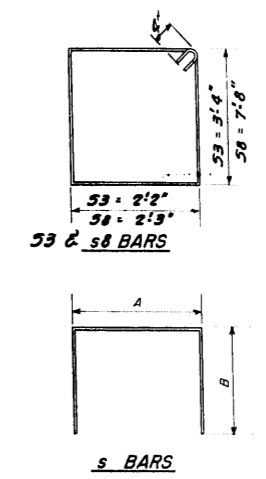


± Pier 7 Sta. 273+65.14
Cr. Elev. 655.08
± Pier 8 Sta. 274+34.39
Cr. Elev. 655.42



DIMENSIONS
ELEV. 624.58
624.58
REINFORCEMENT

ELEVATION



s BARS

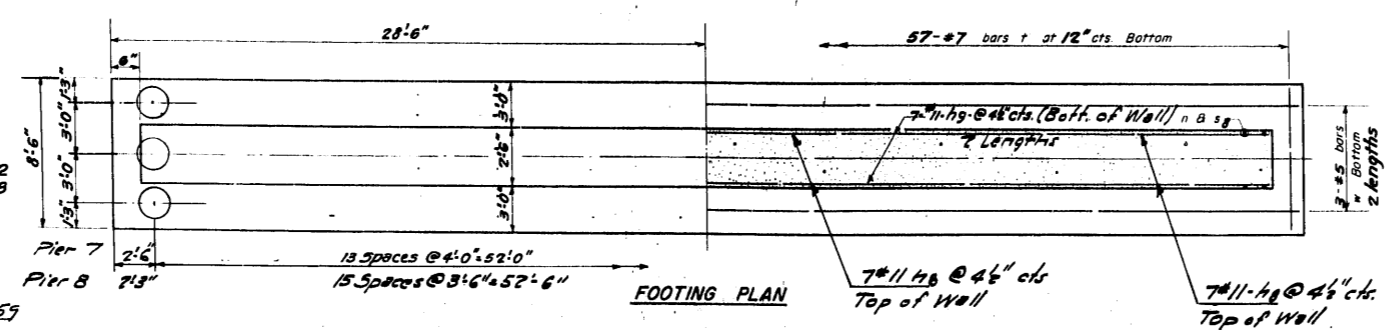
A & B DIMENSIONS

Bar	A	B
s4	2'2"	2'3"
s5	1'10"	3'2"
s6	1'10"	2'7"

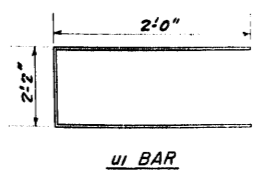
PIERS 7 & 8
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h6	14	#11	20'7"	—
h7	32	#5	28'6"	—
h8	14	#11	37'4"	—
n	224	#6	5'2"	—
n1	128	#9	5'3"	—
h9	28	#11	28'0"	—
p3	24	#11	36'2"	—
p4	12	#4	23'11"	—
p5	12	#11	20'11"	—
p6	12	#4	7'10"	—
p8	12	#11	37'0"	—
s3	120	#5	11'3"	—
s4	136	#5	6'8"	—
s5	96	#5	8'2"	—
s6	96	#5	7'10"	—
s8	112	#5	20'6"	—
t	114	#7	8'3"	—
u1	12	#6	6'2"	—
v12	48	#9	12'10"	—
v13	80	#9	13'2"	—
w	12	#5	29'0"	—

Class X Concrete Cu Yds 256.3
Reinforcement Bars Lbs 35920
Crested Pier Lin. Ft. 1335
Test Piles (Cres. Timber) Each One
Metal Shoes Each 89



FOOTING PLAN



n, n1 BARS

Bar	A	B
n	2'6"	4'0"
n1	4'0"	1'3"

Crested Pier
Capacity - 20 Tons
Est. Length - 15 Ft.
No. Req'd. - 90 (2 Piers includes one test pile @ Pier 8)
Equip with American all steel pile shoe Number 2 or Equal

Note:
Batter Alternate Piles in outside Rows (Pier 8 only)

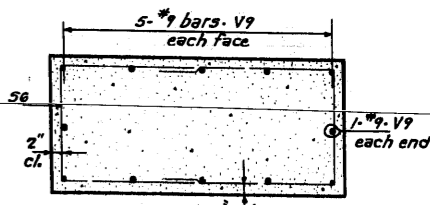
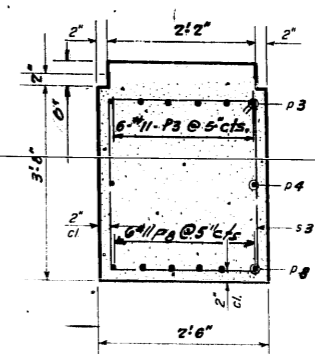
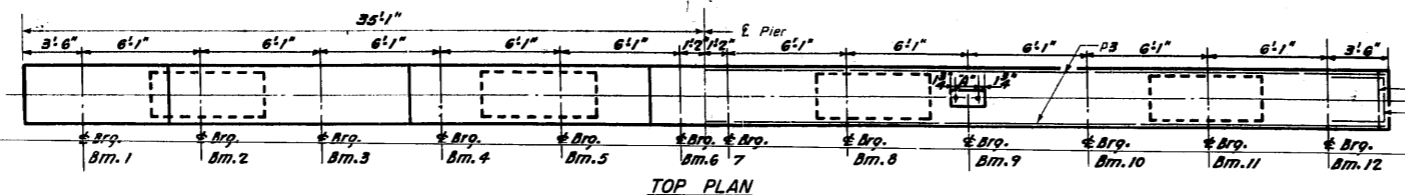
DESIGNED	Ronald C. Pitt	EXAMINED	July 29 1959
CHECKED	Frank X. Gaudin	PASSED	Chief Engineer
DRAWN	R.S.P. W.A. Sausard	APPROVED	Chief Highway
CHECKED	F.K.A.		

PIERS 7 & 8
S. B. L. R. 55-SEC. 551-VB
COOK COUNTY
STA. 274 + 34.38

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2/
57	551-VB	COOK	57	50	18 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

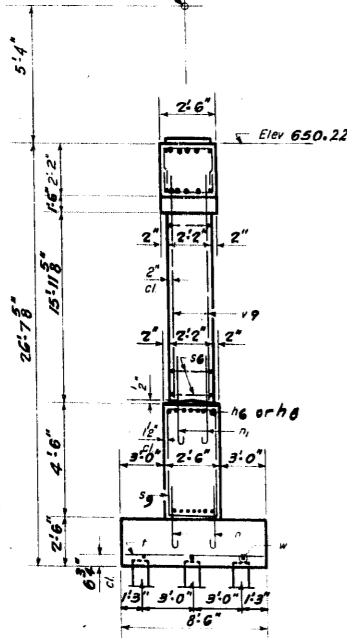
1/4" = 1'-0"
1/8" = 1'-0"
1/16" = 1'-0"



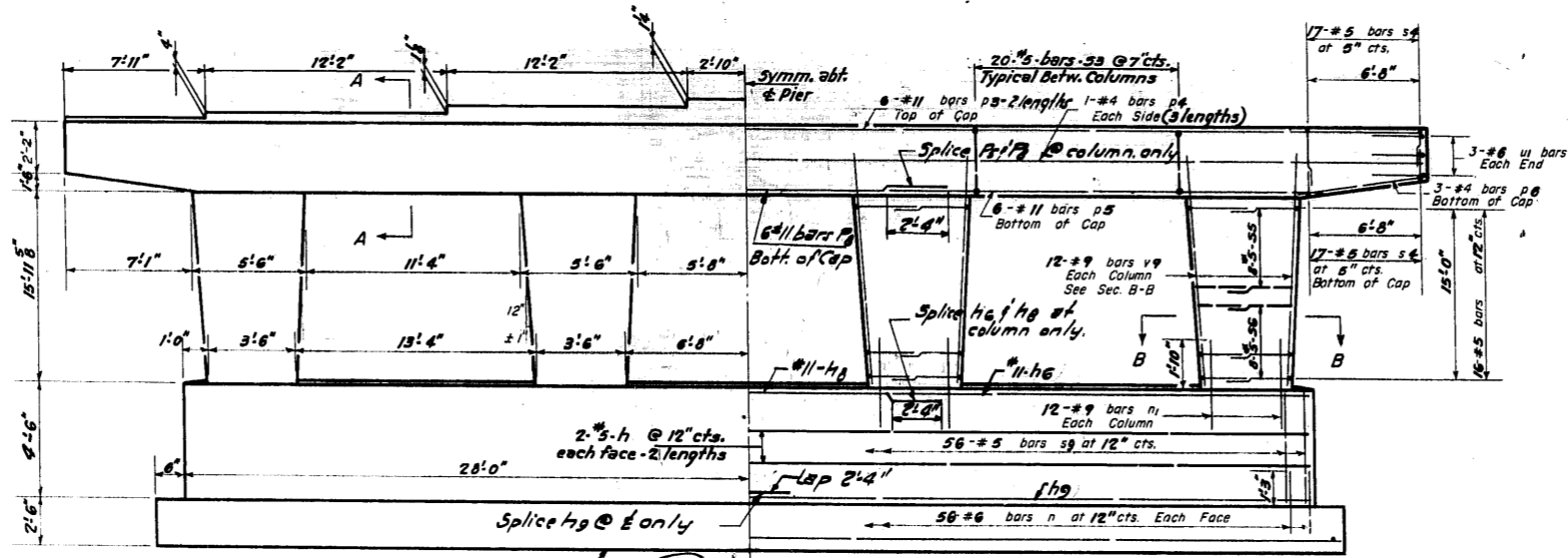
SECTION A-A

SECTION B-B

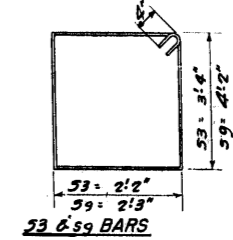
± Pier 9. Sta. 275+03.64
Ct. Elev. 655.56



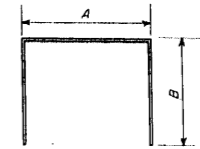
END VIEW



ELEVATION
Elev. 623.50
623.55



53 & 59 BARS



s BARS

A & B DIMENSIONS

Bar	A	B
s4	2'2"	2'3"
s5	1'10"	3'2"
s6	1'10"	2'7"

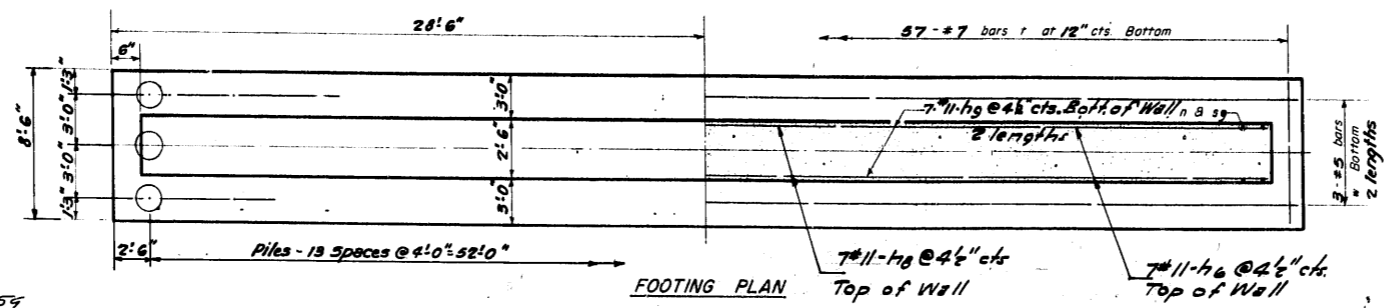
PIER 9
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h6	7	#11	20'7"	—
h7	8	#5	28'6"	—
h8	7	#11	37'4"	—
n	112	#6	3'2"	U
n1	48	#9	5'3"	U
p3	14	#11	29'0"	—
p4	12	#11	36'2"	—
p5	6	#4	29'11"	—
p6	6	#4	7'10"	—
p7	6	#11	27'9"	—
p8	60	#5	11'8"	□
s4	68	#5	6'8"	□
s5	64	#5	8'2"	□
s6	64	#5	7'0"	□
s9	56	#5	18'6"	□
t	57	#7	8'3"	—
u1	6	#6	6'2"	□
v9	48	#9	17'9"	—
w	6	#5	29'0"	—

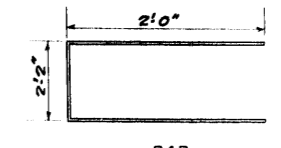
Class X Concrete Cu Yds 116.9
Reinforcement Bars Lbs 17,340
Created Piles Lin. Ft. 630
Metal Shoes Each 42

Note: All edges shall have standard 1/4" chamfer except footing.

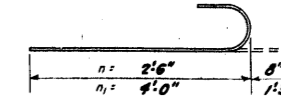
Created Piles
Capacity - 20 Tons
Est. Length - 15 Ft.
No. Req'd. - 42
Equip with American all steel pile shoe, Number 2 or Equal



FOOTING PLAN



u1 BAR



n & n1 BARS

DESIGNED: *Ronald C. Pitt*
CHECKED: *Raymond K. Jacobson*
DRAWN: *R.C.P. W.A. Sausaman*
CHECKED: *J.K.L.*

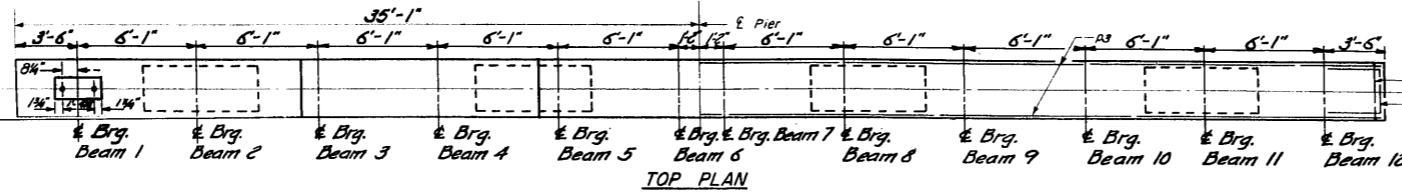
EXAMINED: *[Signature]*
PASSED: *[Signature]*
APPROVED: *[Signature]*

July 29, 1954

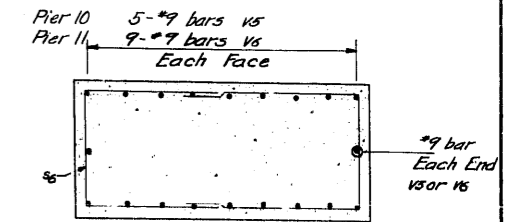
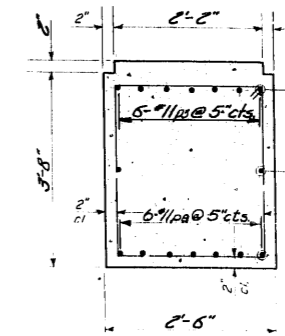
PIER 9
S.B.I. RT. 55-SEC. 551-VB
COOK COUNTY
STA. 274+34.38

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO 22 28 SHEETS
S. R. L. 55	551-VB	COOK	57	51	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

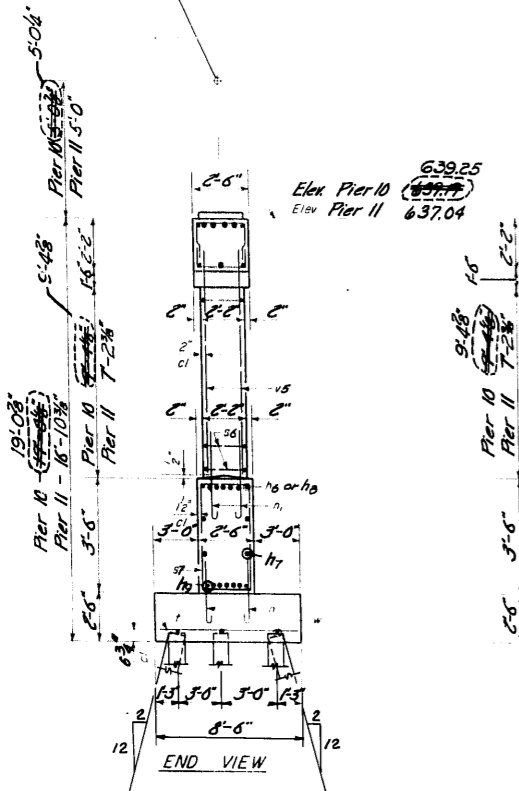


± Pier 10 Sta. 285+87.65
Cr. Elev. 644.27
± Pier 11 Sta. 283+63.65
Cr. Elev. 642.04

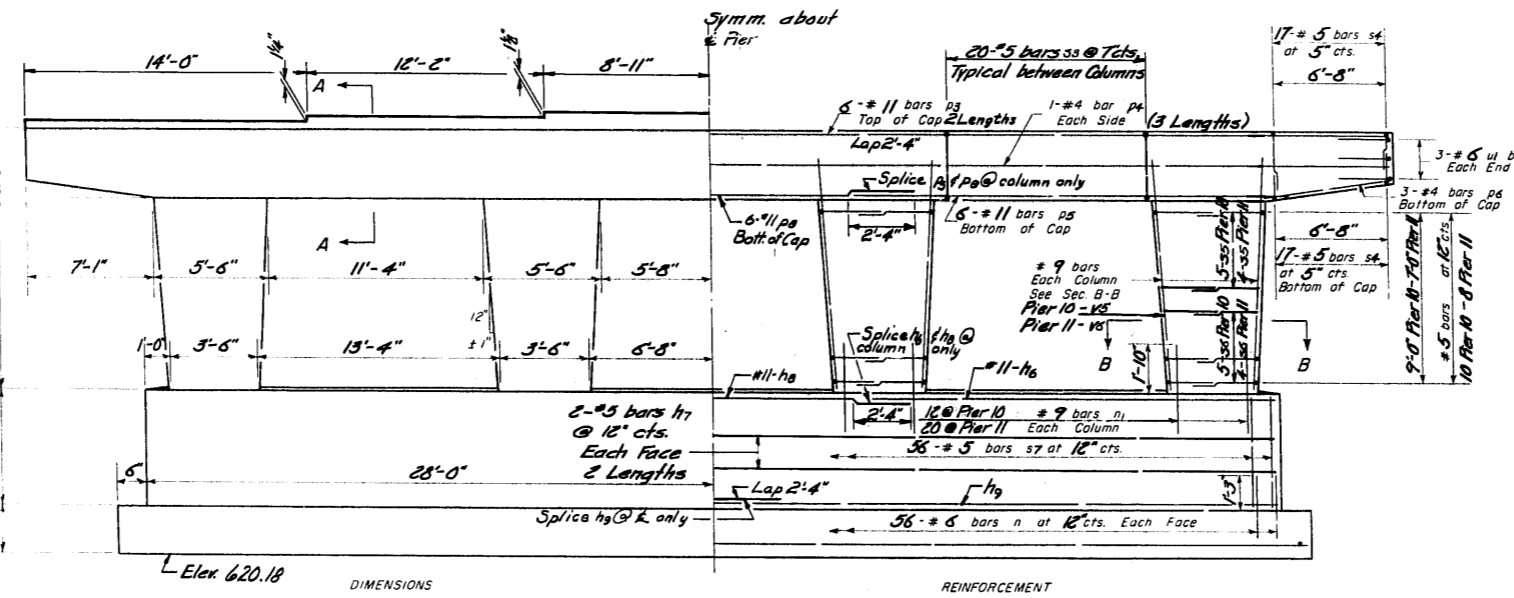


SECTION B-B

SECTION A-A



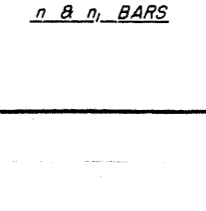
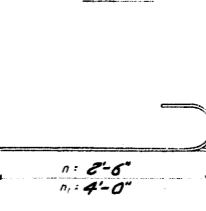
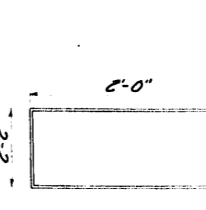
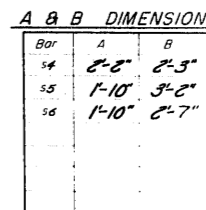
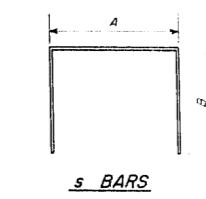
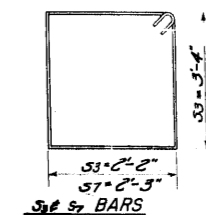
Note: All edges shall have standard 1/4" chamfer except footing.



Elek 620.18 DIMENSIONS

REINFORCEMENT

ELEVATION



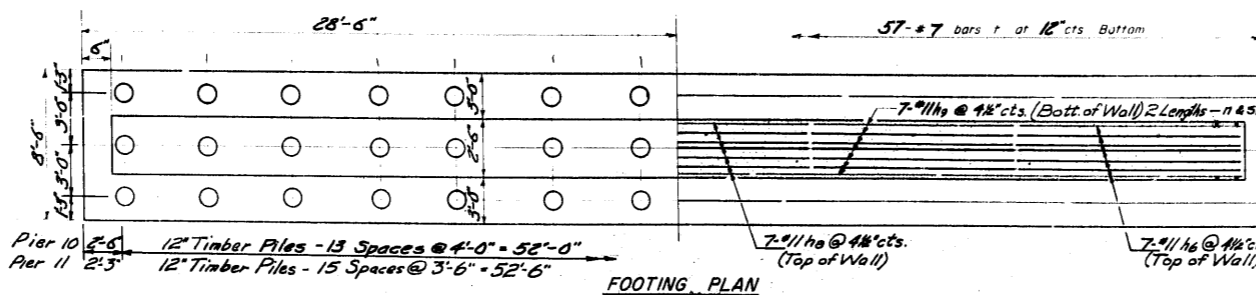
PIERS 10 & 11
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h6	14	#11	20'-7"	—
h7	16	#5	28'-6"	—
h8	14	#11	37'-4"	—
h9	28	#11	29'-0"	—
n	224	#6	3'-2"	—
n1	128	#9	5'-3"	U
p3	24	#11	36'-2"	—
p4	12	#4	23'-11"	—
p5	12	#11	20'-11"	—
p6	12	#4	7'-10"	—
p8	12	#11	37'-9"	—
s3	120	#5	11'-8"	□
s4	136	#5	6'-8"	□
s5	72	#5	8'-2"	□
s6	72	#5	7'-0"	□
s7	112	#5	11'-5"	□
u	114	#7	8'-3"	—
u1	12	#5	6'-0"	—
v5	48	#9	11'-2"	—
v6	80	#9	9'-0"	—
v	12	#5	29'-0"	—

Class X Concrete 198.7
Reinforcement Bars 32,610
Creosoted Timber Piles Lin Ft. 990
Metal Shoes each 90

PILE DATA

Creosoted Piles
Capacity = 20 tons
Est. Length = 11'
No. Req'd = 42 - Pier 10
48 - Pier 11
Equip with American all steel pile shoe
Number 20 or equal.



Note: Batter Alternate Piles in outside Rows (Pier 11 only)

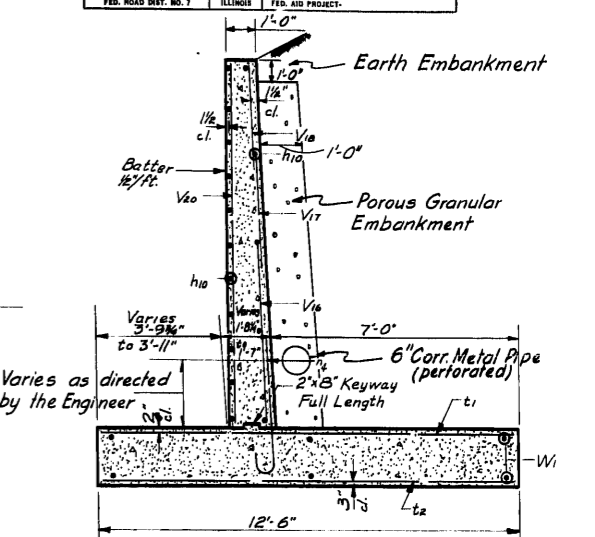
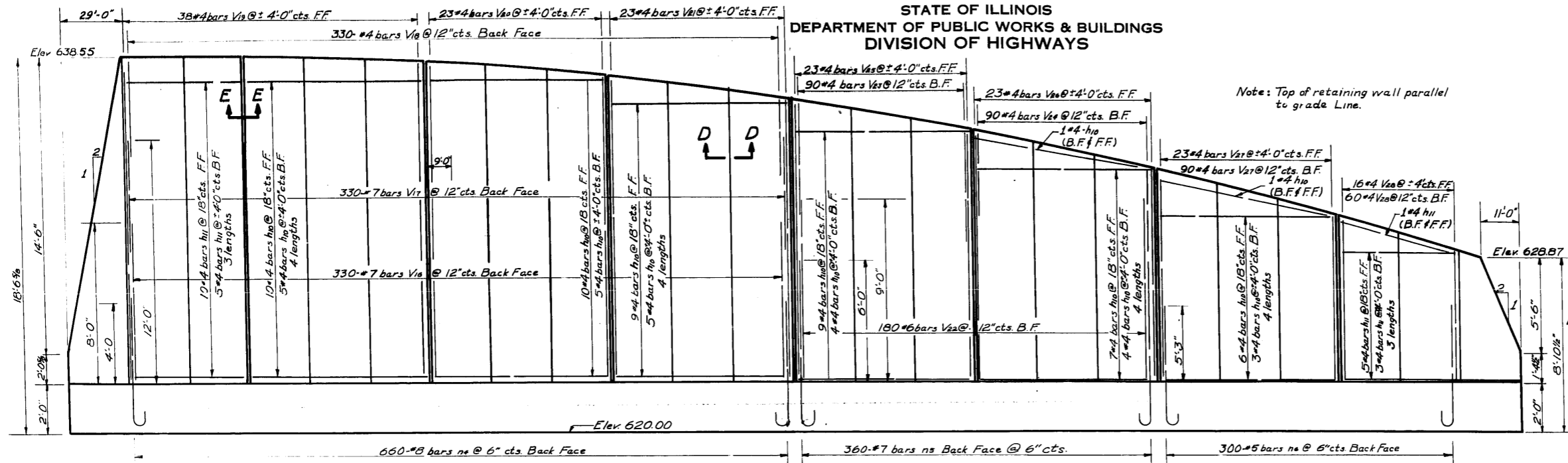
DESIGNED	Ronald C. Pitt	EXAMINED	July 29 1957
CHECKED	Edward H. Casper	PASSED	
DRAWN	R.P. W.A. Sausman	APPROVED	
CHECKED	J.H.R.		

Revised 8/2/61 Changed height of Pier 10 from 19'-0" to 19'-8"
alignment from top of Pier 10 to Cr. of lobby chgd. from
642.16 to 642.04. Elev. at top of Pier chgd. from 642.17 to 642.27. See END VIEW. - J.A.B.

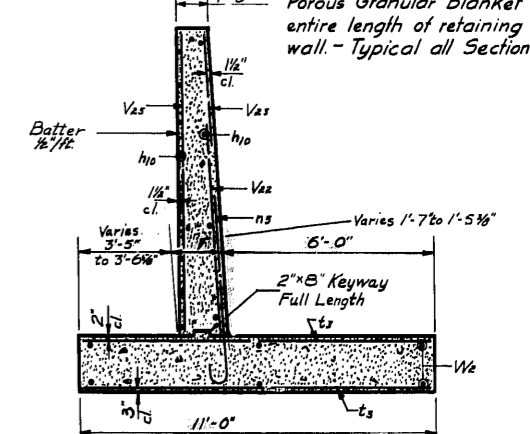
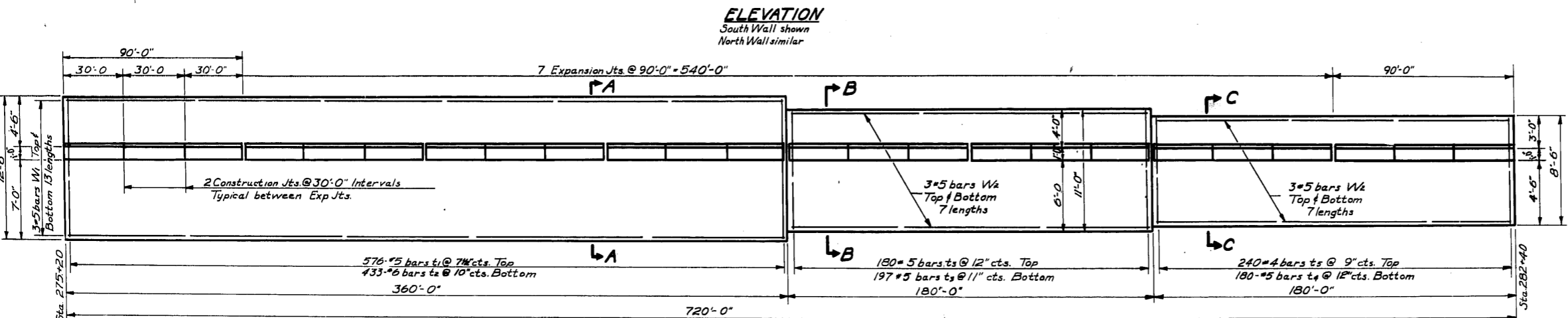
PIERS 10 & 11
CERMAK ROAD OVER 25TH AVE.
S.B.I. Pt. 55 - SECTION 551-VB
COOK COUNTY
STATION 274+34.38

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

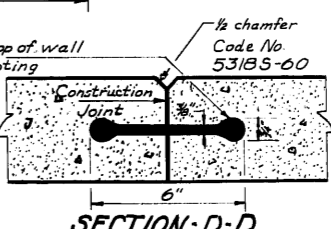
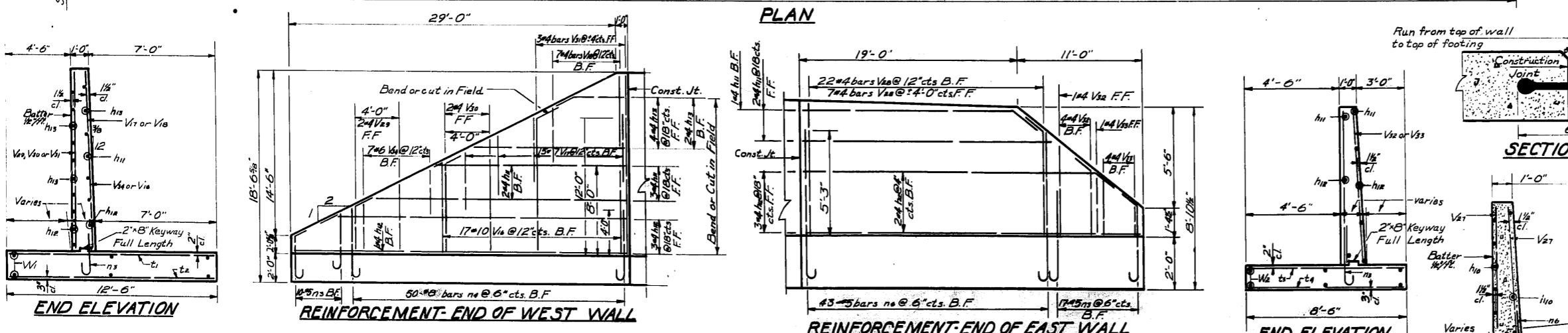
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
S. R. L. 55	551-VB	COOK	57	52	28 SHEETS
F.A.					
FED. ROAD DIST. NO. 7	ILLINOIS	TYPE AND PROJECT			



SECTION-A-A (Showing Detail of Porous Granular Blanket entire length of retaining wall - Typical all Sections)



SECTION-B-B



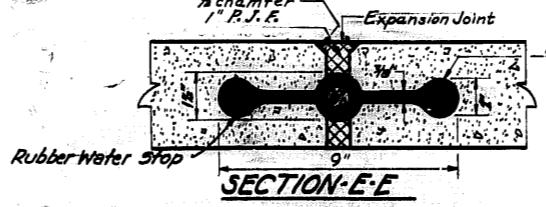
SECTION-D-D

DESIGNED *Ronell C. Pitz*
CHECKED *Floyd K. Jacobson*
DRAWN *R.C.P. F. Bahr*
CHECKED *F. H. A.*

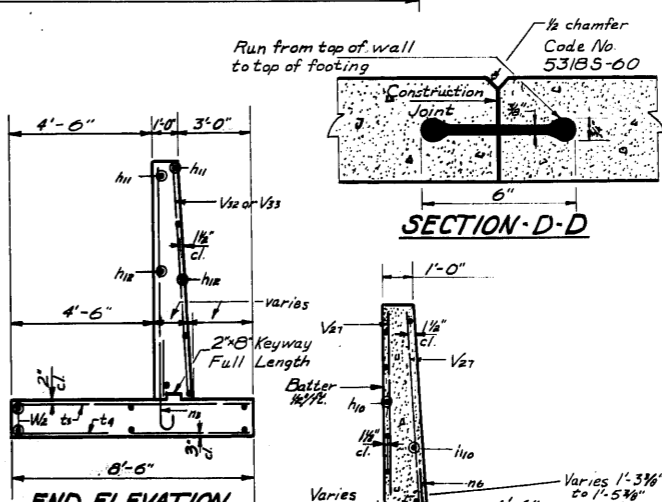
EXAMINED *July 29 1959*
PASSED *[Signature]*
APPROVED *R. R. [Signature]*
CHIEF HIGHWAY ENGINEER

BARS ns-nm-np-ne

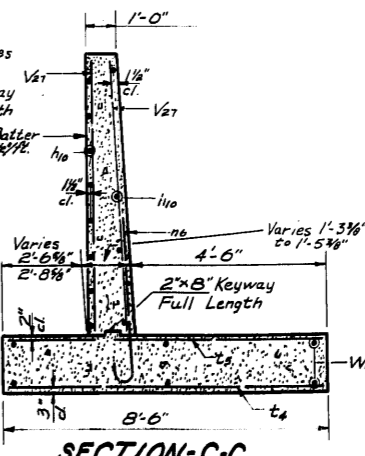
7"	ns	3'-0"
7 1/2"	nm	5'-6"
10"	np	7'-6"
7"	ne	6'-9"



SECTION-E-E



END ELEVATION



SECTION-C-C

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1	240	#4	23'-2"	
h2	180	#4	20'-0"	
h3	180	#4	29'-0"	
h4	180	#4	11'-0"	
n1	54	#5	3'-7"	
n2	1440	#8	6'-7"	
n3	720	#7	8'-4"	
n4	630	#5	7'-4"	
t1	1152	#5	12'-3"	
t2	630	#6	12'-3"	
t3	720	#5	10'-9"	
t4	300	#5	8'-3"	
t5	480	#4	8'-3"	
V1	630	#7	21'-0"	
V2	630	#7	9'-0"	
V3	674	#4	5'-2"	
V4	70	#4	15'-10"	
V5	40	#4	15'-0"	
V6	30	#6	9'-0"	
V7	180	#4	9'-9"	
V8	40	#4	4'-8"	
V9	40	#4	12'-3"	
V10	40	#4	10'-8"	
V11	220	#4	8'-9"	
V12	210	#4	6'-9"	
V13	4	#4	5'-9"	
V14	4	#4	9'-9"	
V15	4	#4	12'-3"	
V16	4	#4	10'-8"	
V17	10	#4	4'-10"	
V18	10	#4	2'-10"	
V19	72	#6	7'-0"	
W1	180	#8	28'-8"	
W2	180	#8	28'-8"	

Class X Concrete Cu. Yds. 2,097
Reinforcement Bars Lbs. 145,060
Class A Excavation var. str. Cu. Yds. 3,802

RETAINING WALL
SBI Rt. 55- SECTION 551-VB
COOK COUNTY
STATION 274 + 34.38

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

PROJECT NO.	SECTION	COUNTY	DATE	SHEET NO.	TOTAL SHEETS
551-VB	551-VB	COOK	57	53	238 SHEETS

Form No. S. D. 137

FOUNDATION BORINGS

Sheet 1
of 15 Sheets

Project Bridge Permak Road over Indiana
Route 38-100 Harbor Belt R.R. Sta. 275408
Section 551-VB Boring made by William Carter
County Cook

Boring No.	Depth	Soil Description	Notes
Boring located at Station 274+37, 26 Ft. Lt. Center-line.	005.0	Very stiff gray stoney clay till.	107
	004.0	Qu-3.55	
Surface of ground.	003.0		
	002.5		
Medium black silty clay.	001.5	Very dense gray angular poorly graded clayey gravel.	125
	000.0		
Stiff brown mottled clay.	599.0		190
Lost Sample	620.0		
	619.0		
	618.5		
Hard brown clay till.	617.5		
	616.0		
	615.0		
Hard gray silty clay till.	614.0		
	613.0		
	612.0		
	611.0		
	610.0		
Dense gray silty clay.	609.5		
	609.0		
	608.5		
	608.0		
	607.5		
	607.0		
	606.5		
	606.0		
	605.5		
	605.0		
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	603.0		
	602.5		
	602.0		
	601.5		
	601.0		
	600.5		
	600.0		
	599.5		
	599.0		

NOTE
No fill stability problem.

Form No. S. D. 137

FOUNDATION BORINGS

Sheet 2
of 15 Sheets

Project Bridge Permak Road over Indiana
Route SBI 55 Harbor Belt R.R. Station 275408
Section 551-VB Boring made by William Carter
County Cook

Boring No.	Depth	Soil Description	Notes
Boring located at Station 274+37, 26 Ft. Lt. Center-line.	604.5	Qu-4.49	200
	603.5	Hard gray stoney clay till.	
Surface of ground.	624.4		
	604.0		
Stiff dark brown silty clay.	603.0	Refusal	
	602.0		
	621.5		
	619.5		
Hard brown clay till.	618.5	Qu-4.25	24
	617.0		
	616.0		
	615.5		
	614.5		
Hard gray silty clay till.	613.5	Qu-3.24	45
	612.5		
	612.0		
	611.0		
	610.5		
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	600.0		
	599.5		
	599.0		

Form No. S. D. 137

FOUNDATION BORINGS

Sheet 3
of 15 Sheets

Project Bridge Permak Road over Indiana
Route 38-100 Harbor Belt R.R. Station 275408
Section 551-VB Boring made by William Carter
County Cook

Boring No.	Depth	Soil Description	Notes
Boring located at Station 274+7, 26 Ft. Lt. Center-line.	604.0		
	603.0		
Surface of ground.	604.1		
	603.5		
Stiff dark brown silty clay.	602.5		
	602.0		
	601.5		
	601.0		
	600.5		
	600.0		
	599.5		
	599.0		
	598.0		
	619.0		
	618.0		
	617.0		
	616.0		
	615.0		
	614.5		
	614.0		
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	600.5		
	600.0		
	599.5		
	599.0		

Form No. S. D. 137

FOUNDATION BORINGS

Sheet 4
of 15 Sheets

Project Bridge Permak Road over Indiana
Route SBI 55 Harbor Belt R.R. Station 275408
Section 551-VB Boring made by William Carter
County Cook

Boring No.	Depth	Soil Description	Notes
Boring located at Station 274+57, 26 Ft. Lt. Center-line.	625.0		
	601.5		
	601.0		
	600.0		
	599.5		
	598.5		
	597.5		
	596.5		
	596.0		
	595.0		
	618.5		
	617.5		
	617.0		
	616.0		
	615.0		
	614.5		
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	602.5		
	602.0		
	601.5		
	601.0		
	600.5		
	600.0		
	599.5		
	599.0		

Blows per foot - Penetration of Sampling Spoon
Hammer weight - 350 Lbs.
Drop - 12"
Qu - Unconfined Compressive Strength in Tons per square foot.

DESIGNED Ronald C. Pitt
CHECKED Floyd K. Jackson
DRAWN R.C.P.
CHECKED F.H.J.

EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]

BORING DATA
SBI Rt. 55 - SECTION 551-VB
COOK COUNTY
STATION 274+34.38

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 25 28 SHEETS
S.B.I. 55	551-VB	COOK	57	54	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. RD. PROJECT.		

Form No. S. & B. 137
FOUNDATION BORINGS
Project Bridge Cermak Road over Indiana Sheet 5 of 15 Sheets
Route SBI 55 Harbor Belt R.R. Station 275408 Date Oct. 56
Section 551-VB Boring made by William Carter
County Cook

Boring No.	Station	Depth	Penetration	Remarks
Boring No. 5	264425, 23 Ft Lt Center-line.	605.0		
		604.0		Refusal on boulder
		603.0		
	Surface of ground.	601.5		180 To stoney to test
	Stiff brown mottled clay.	600.5		Hard gray stoney clay and very numerous boulders.
		599.0		Refusal on boulder
		598.0		
	Hard brown clay till.	596.5		222 To stoney to test.
	Qu-7.56 43	618.0		
		617.0		
	Stiff gray varved silty clay. Ruptured	616.0		
		615.0		
	Very stiff gray sandy clay till. Qu-8.24 29	614.0		
		613.0		
	Very stiff gray clay till. Qu-7.01 170	612.0		
		611.0		
	Hard gray stoney clay till.	610.0		
		609.0		
	Refusal on boulder	608.0		
		607.0		
		606.5		
		605.5		
		605.0		

Form No. S. & B. 137
FOUNDATION BORINGS
Project Bridge Cermak Road over Indiana Sheet 6 of 15 Sheets
Route SBI 55 Harbor Belt R.R. Station 275408 Date Oct. 56
Section 551-VB Boring made by William Carter
County Cook

Boring No.	Station	Depth	Penetration	Remarks
Boring No. 6	262427, 35 Ft Rt Center-line.	604.0		Hard gray brittle clay till.
		603.0		Refusal on boulder
		602.0		
		601.5		226 Very dense gray silt.
	Surface of ground.	601.5		
	Stiff dark brown silty clay.	600.5		
		621.5		312
	Hard brown clay till.	599.0		
		598.0		
	Qu-6.54 25	619.0		
		618.0		
	Hard gray silty clay till. Qu-8.41 22	617.0		
		616.5		
		615.5		
	Medium gray silty sand.	614.5		
		614.0		
		613.0		
	Qu-7.03 48	612.0		
		611.5		
	Hard gray brittle clay till. To stoney to test	610.5		
		609.0		
		608.0		
	Refusal on a boulder	606.5		
		606.0		
		605.5		

Form No. S. & B. 137
FOUNDATION BORINGS
Project Bridge Cermak Road over Indiana Sheet 7 of 15 Sheets
Route SBI 55 Harbor Belt R.R. Station 275408 Date Oct. 56
Section 551-VB Boring made by William Carter
County Cook

Boring No.	Station	Depth	Penetration	Remarks
Boring No. 7	260427, 24 Ft Rt Center-line.	604.5		Hard gray brittle clay till.
		603.5		770 Refusal on boulder
		602.0		Very dense gray very stoney slightly clayey silt.
	Surface of ground.	601.0		Refusal on boulder
	Very stiff brown mottled clay.	599.5		
		598.5		258
	Qu-5.00 33	619.5		
	Hard brown clay till.	618.5		
	Qu-6.78 60	617.0		
		616.0		
		615.5		
	Medium gray silty sand with thin layers of gray clay.	614.5		
		613.5		
		612.5		
	Hard gray clay till. Qu-7.64 40	612.0		
		611.0		
		610.5		
	Qu-4.82 370	609.5		
		608.5		
	Hard gray brittle stoney clay till.	607.0		
	Cored boulder	605.0		
		604.5		

Form No. S. & B. 137
FOUNDATION BORINGS
Project Bridge Cermak Road over Indiana Sheet 8 of 15 Sheets
Route SBI 55 Harbor Belt R.R. Station 275408 Date Oct. 56
Section 551-VB Boring made by William Carter
County Cook

Boring No.	Station	Depth	Penetration	Remarks
Boring No. 8	277427, 26 Ft Rt Center-line.	604.5		Very dense gray stoney silt.
		603.5		290
	Surface of ground.	624.6		
	Very stiff brown mottled silty clay.	622.0		
		619.5		
	Hard brown mottled silty silty clay till. Qu-4.29 12	618.5		
		618.0		
	Very dense gray silty sand, and layers of clay.	617.5		
		617.0		
		616.0		
		615.5		
	Hard gray clayey silt. Qu-4.94 31	614.5		
		613.5		
		612.5		
	Very stiff gray mottled silty clay with layers of sand. Qu-5.42 59	612.0		
		611.0		
		610.0		
	Qu-5.39 34	609.5		
		608.5		
	Hard gray brittle silty clay till.	607.0		
	To stoney to test	606.0		
		605.5		

Blows per foot - Penetration of Sampling Spoon
Hammer Weight - 350 Lbs.
Drop - 12"
Qu - Unconfined Compressive Strength in Tons per Square Foot.

DESIGNED Ronald C. Pitz
CHECKED Alfred H. Jacobson
DRAWN R.C.P.
CHECKED F.H.F.
DATE July 29 1959
APPROVED R.R. [Signature]

BORING DATA
SBI Rt. 55 SECTION 551VB
COOK COUNTY
STATION 274+34.38

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

FORM NO. 55-113
COOK 57 99
SHEET NO. 26
28 SHEETS

Form No. S.O. 137

FOUNDATION BORINGS

Project Bridge Gernak Road over Indiana Sheet 6 of 15
Road SBI 55 Harbor Belt R.R. Station 275406 Date Oct. 56
Section 551-VR Boring made by William Carter
County Cook

Boring No.	Depth (ft)	Penetration (lb/ft)	Remarks
Boring located at Station 275406, 26 Ft. Lt. Centerline.			
Surface of Ground	608.1	608.5	Very dense gray angular poorly graded silty gravel.
	604.5	604.0	
	603.0	415	Qu-10.24
	602.0	600.5	Hard gray silty stoney clay till.
Med. Sample	625.0	Refusal.	
Medium brown silty gravelly clay fill.	620.0	596.5	
Qu-0.61	620.5		
	619.5		
Ruptured sample	618.0		
	617.0		
	616.5		
Hard gray clay till.	615.5		
Qu-10.22	614.5		
	614.0		
Stiff gray sandy slit.	613.0		
Qu-1.72	611.0		
	610.5		
Very dense gray angular poorly graded silty gravel.	609.5		
	608.0		
	607.0		

Form No. S.O. 137

FOUNDATION BORINGS

Project Bridge Gernak Road over Indiana Sheet 10 of 15
Road SBI 55 Harbor Belt R.R. Station 275406 Date Oct. 56
Section 551-VR Boring made by William Carter
County Cook

Boring No.	Depth (ft)	Penetration (lb/ft)	Remarks
Boring located at Station 275426, 17 Ft. Lt. Centerline.			
Surface of Ground	627.7	607.5	Very dense gray stoney silty till.
	605.0	606.5	
	604.0	236	Stiff dark brown gravelly silty clay.
	625.0	602.5	
	601.5	280	
Qu-2.08	624.5		
Very stiff dark brown silty clay.	621.5	5	
Lost sample	620.0	17	
	619.0		
	618.5		
Hard brown mottled clay.	617.5	38	
Qu-0.76	616.5		
	615.5		
Medium gray silty sand and small gravel.	614.0	17	
	613.5		
	612.5		
Qu-1.06	611.5	18	
Stiff gray sandy silty clay till.	610.5		
	610.0		
	609.0		
Qu-1.72	608.0	74	
	607.5		

Form No. S.O. 137

FOUNDATION BORINGS

Project Bridge Gernak Road over Indiana Sheet 11 of 15
Road SBI 55 Harbor Belt R.R. Station 275408 Date Oct. 56
Section 551-VR Boring made by William Carter
County Cook

Boring No.	Depth (ft)	Penetration (lb/ft)	Remarks
Boring located at Station 275407, 26 Ft. Lt. Centerline.			
Surface of Ground	626.8	607.0	Very dense gray stoney silty till.
	606.0	240	
	604.5	Refusal.	
	603.5		
Medium dark brown silty clayey sand and gravel.	622.0	11	
	621.0		
	620.5		
	619.5		
Qu-4.00	618.5	28	
Hard brown stoney clay till.	617.0		
Qu-6.25	616.0	46	
	615.0		
	614.5		
Qu-0.51	613.5	64	
Hard gray silty clay till.	612.0		
Qu-4.33	611.0	43	
	610.0		
	609.5		
Very dense gray poorly graded silty gravel.	608.5	500	
	608.0		

Form No. S.O. 137

FOUNDATION BORINGS

Project Bridge Gernak Road over Indiana Sheet 12 of 15
Road SBI 55 Harbor Belt R.R. Station 275408 Date Oct. 56
Section 551-VR Boring made by Gordon Johnson
County Cook

Boring No.	Depth (ft)	Penetration (lb/ft)	Remarks
Boring located at Station 267407, 38 Ft. Lt. Centerline.			
Surface of Ground	624.0	604.0	qu=4.4
	603.0	210	Hard gray clay silty brittle clay till.
	601.5	230	Too stoney to test.
	600.5		
Very stiff mottled clay till.	622.0		
	621.0		
Hard mottled clay till.	620.5	6	
Qu-4.05	619.5		
	619.0		
Hard gray clay till.	618.5	52	
Qu-5.50	617.5		
	617.0		
	616.0		
Qu-3.27	615.0	65	
Very dense extremely gravelly sandy silty till.	614.5		
	614.0		
	613.5		
	613.0		
	612.0		
	611.0		
	610.0		
	609.0		
Very dense gray angular poorly graded silty gravel and boulders.	608.5	Refusal.	
	608.0		

DESIGNED Ronald C. Pitt
CHECKED Hynd K. Jackson
DRAWN R.C.P.
CHECKED F.H.S.
EXAMINED W.D. ...
FIELD E.S. ...
APPROVED R.R. ...
DATE July 29 1957

Blows per foot - Penetration of Sampling Spoon
Penetration weight - 350 Lbs.
Drop - 18"
Qu - Unconfined Compressive Strength in Tons per square foot

BORING DATA
SBI RT. 55 SECTION 551-VR
COOK COUNTY
STATION 274+34.38

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

PROJECT NO.	SECTION	SUBJECT	DATE	BY	NO. OF SHEETS
55	55WB	COOK	57	56	28

Form No. S. D. 137

FOUNDATION BORINGS

Project Bridge Cermak Road over Indiana Sheet 13 of 15
 Route SR 55 Harbor Unit R.R. Station 275406 Date Nov. 56
 Station 551-V3 Boring made by William Carter
 County Cook

Boring No.	Depth (ft)	Remarks	Notes
Boring No. 13			
Boring located at Station 268405, 18 Ft. Lt. Center-line.			
Surface of Ground	624.9		
Stiff gray mottled clay.	605.0	Very dense gray sandy silt.	500
	604.0		
	603.5		
	602.5	Qu-5.19	203
	601.5	Hard gray silty sandy stone clay till.	
	600.0		
	599.0	To stone to test.	250
	620.0		
Qu-1.34	619.0		4
	618.0		
Hard gray silty clay till.	617.5		49
Qu-0.74	616.5		
	615.5		
	615.0		
	615.0		35
Very stiff gray silty sandy clay till. Lost sample	614.0		
	613.0		
	612.5		
Very stiff gray clay till.	611.5		29
Qu-3.02	610.5		
	610.0		
Very dense gray silty gravel and boulders. Refusa	609.0		
	608.5		
	607.5		
Very stiff gray clay till. To stone to test	606.5		200
	606.0		

Form No. S. D. 137

FOUNDATION BORINGS

Project Bridge Cermak Road over Indiana Sheet 14 of 15
 Route SR 55 Harbor Unit R.R. Station 275406 Date Nov. 56
 Station 551-V3 Boring made by William Carter
 County Cook

Boring No.	Depth (ft)	Remarks	Notes
Boring No. 14			
Boring located at Station 268405, 18 Ft. Lt. Center-line.			
Surface of Ground	624.0		
Stiff gray mottled clay.	604.5	Ruptured	150
	603.5	Hard gray silty clay till.	
	602.0	Qu-10.224	120
	601.0		
	599.5	Qu-10.224	130
	598.5		
	620.5		
	619.5		
Qu-7.60	618.5		32
Hard mottled clay till.	617.0		
	616.0		
	615.5		
	614.5		
Qu-6.70	613.5		12
	613.0		
	612.5		
Qu-4.57	611.5		51
	610.5		
Hard gray very silty clay till.	609.5		
Ruptured sample	608.5		43
	611.0		
	610.0		
	609.5		
Very dense silty gravel and boulders.	608.5		125
	607.5		
	607.0		
Hard gray silty clay till. Ruptured sample	606.0		120
	606.0		

Form No. S. D. 137

FOUNDATION BORINGS

Project Bridge Cermak Road over Indiana Sheet 15 of 15
 Route SR 55 Harbor Unit R.R. Station 275406 Date Nov. 56
 Station 551-V3 Boring made by William Carter
 County Cook

Boring No.	Depth (ft)	Remarks	Notes
Boring No. 15			
Boring located at Station 268405, 18 Ft. Lt. Center-line.			
Surface of Ground	624.18		
Medium mottled clay.	605.5	Hard gray brittle clay till.	145
	602.5	Ruptured sample	
	620.0		
Qu-0.57	619.0		7
Med. gray clay and streaks of fine sand.	618.0		
	617.0		
	616.5		
Qu-10.224	615.5		62
	614.0		
Hard gray brittle clay till.	613.0		100
Qu-6.30	611.5		
	611.5		
Qu-6.62	610.5		66
	610.0		
	609.0		
	608.0		
	607.0		
Very dense gray silty sand and angular gravel.	606.5		107
	605.5		
	605.0		200

Checked Ronald C. Pitt Date July 29 1957
 Drawn W. J. ...
 Project SR 55
 Station 551-V3
 County Cook
 Boring No. 15

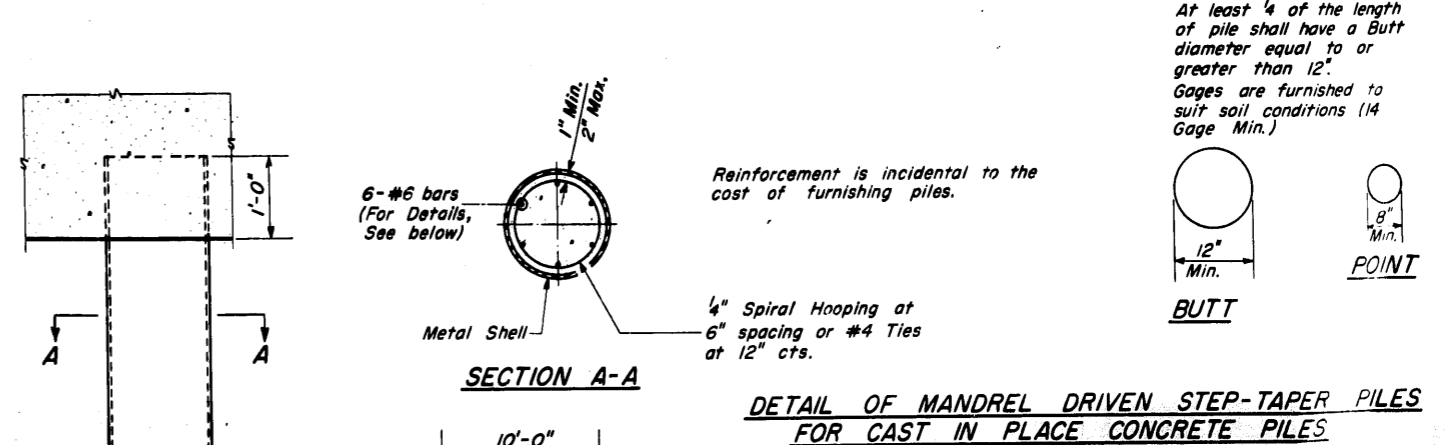
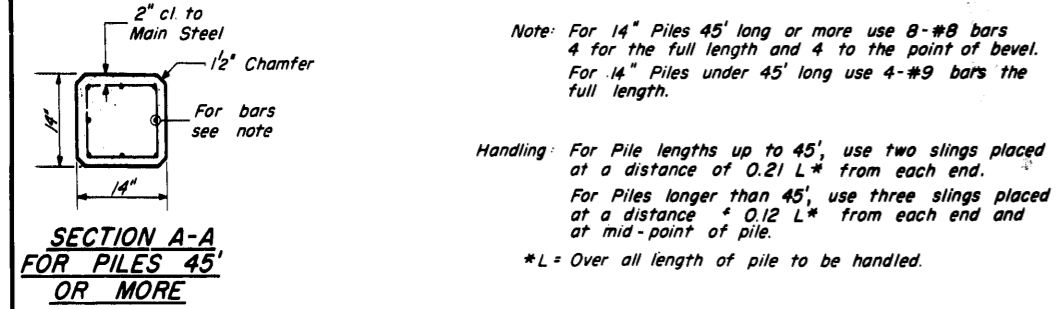
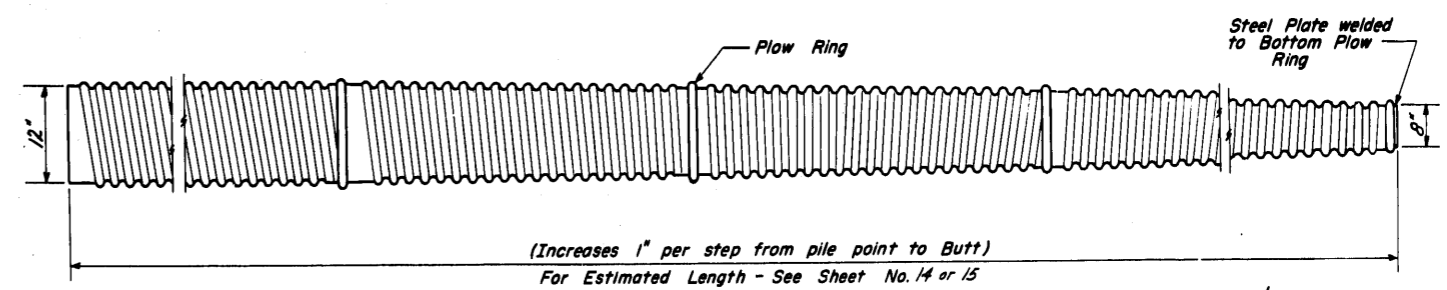
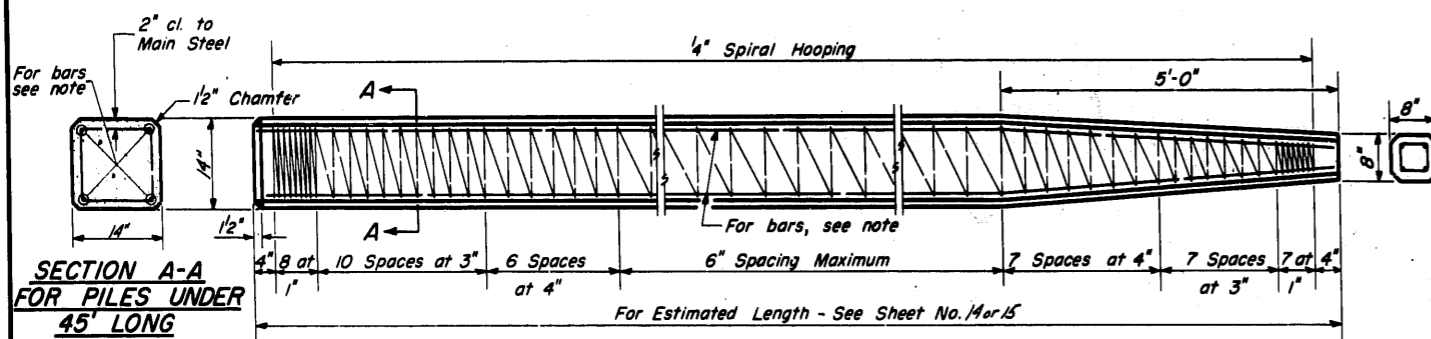
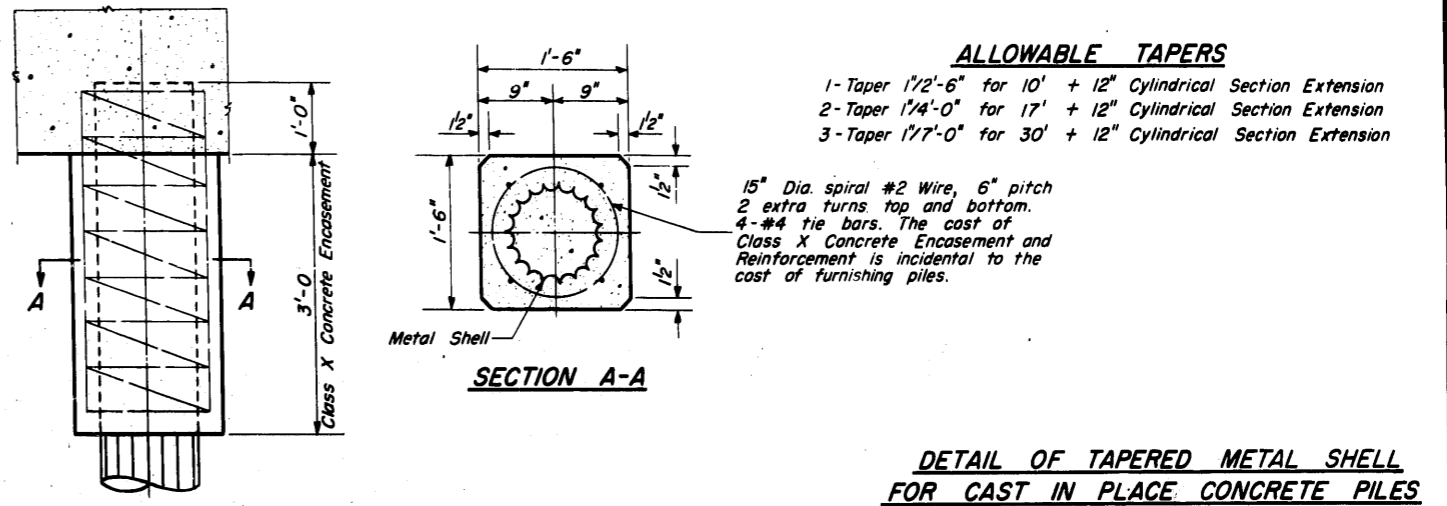
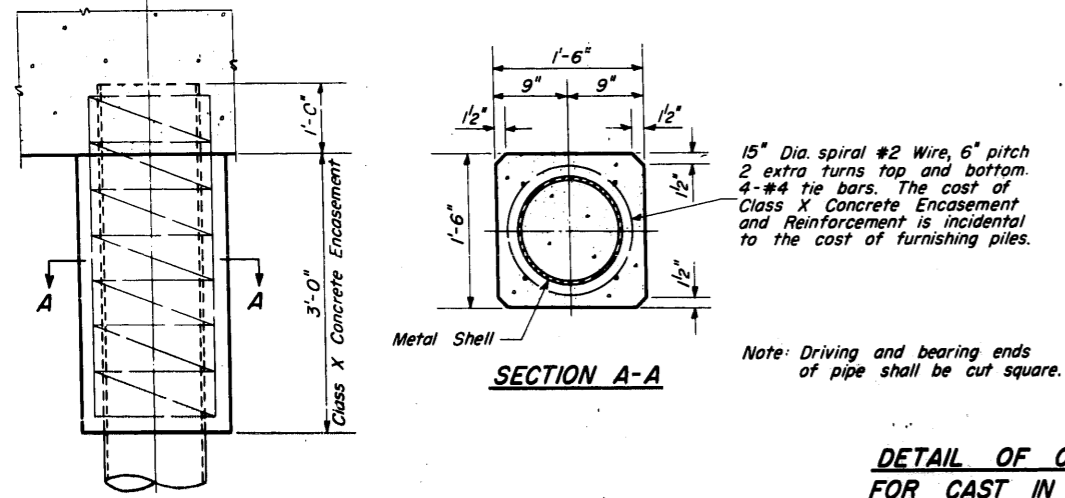
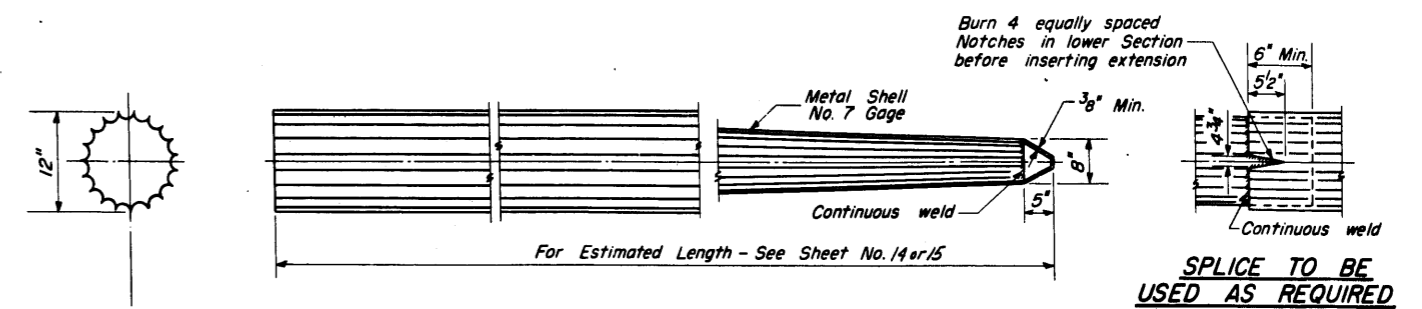
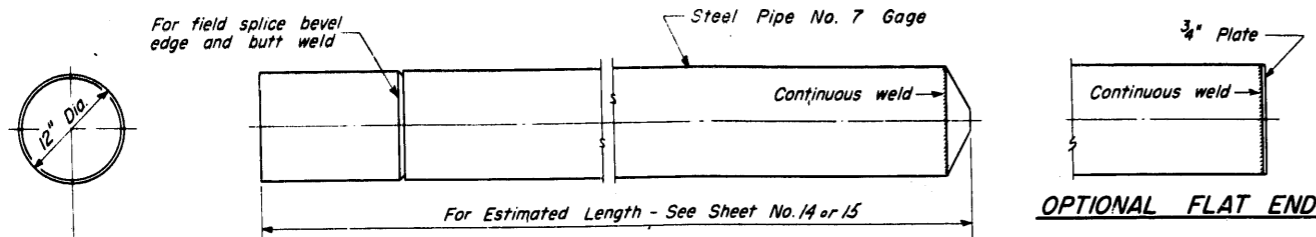
Blows per foot
 Hammer Weight
 Drop
 Qu

Penetration of Sampling Spoon
 350 Lbs.
 12"
 Unconfined Compressive Strength
 in Tons per square foot.

Boring Data
 SBI R-55 Section
 Cook County
 Station 274-2333

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 28 28 SHEETS
S.A. 55	55-VB	COOK	57	57	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		



DESIGNED	K. P. Wozniak	19
CHECKED	W. A. Sousman	EXAMINED
DRAWN	W. A. Sousman	PASSED
CHECKED	W. A. Sousman	APPROVED
		CHIEF HIGHWAY ENGINEER

PILE DET.
S.B.I. RT. 55 SEC. 55-VB
COOK COUNTY
STA. 274 + 34.38