STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

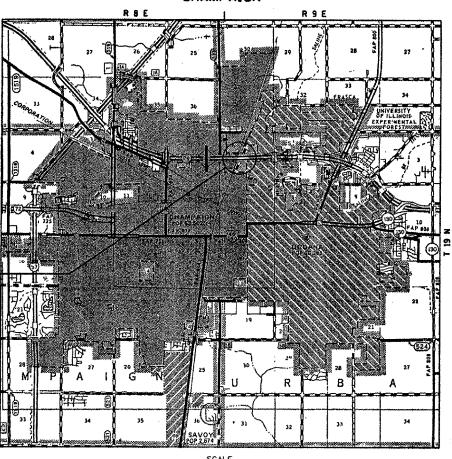
**DIVISION OF HIGHWAYS** 

## **PROPOSED** HIGHWAY PLANS

F.A.I. ROUTE 74 SECTION (14-1)I **CHAMPAIGN COUNTY** 

C-95-136-06 **BRIDGE DECK PROTECTIVE SHIELD** 

CHAMPAIGN



TOTAL LENGTH OF SECTION & PROJECT = 323.8 FEET = 0.061 MILES

NET LENGTH OF SECTION & PROJECT = 323.8 FEET = 0.061 MILES

**CONTRACT NO. 70622** 

F.A.I. ROUTE 74 SECTION (14-1)1 CHAMPAIGN COUNTY

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

DESIGN DESIGNATION

N/A

STRUCTURE NO. 010-0021

F.A.I. ROUTE 74 SECTION (14-1)I CHAMPAIGN COUNTY

SECTION BEGINS STA. 1216+67.75

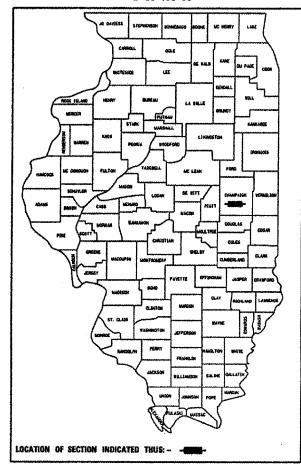
**SECTION ENDS STA. 1219+91.55** 

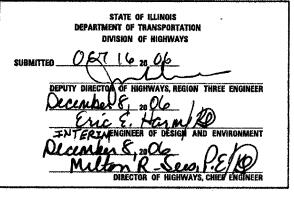
FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

COUNTY TOTAL SHEE SHEETS NO.
CHAMPAIGN 22 1

D-95-136-06





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

c:\projects\d5(3606 (v8)\70622plon.dgn

1-800-892-0123

## **INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS/HIGHWAY STANDARDS
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
5	EXISTING GENERAL PLAN AND ELEVATION
6	SUPERSTRUCTURE DETAILS
7	DETAIL SHOWING BEAM WIDTHS
8	PERMANENT PROTECTIVE SHIELD DETAILS
9-22	OLD PLANS FOR INFORMATION ONLY

## **HIGHWAY STANDARDS**

STANDARD NO.

DESCRIPTION

000001-04

STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

001006

DECIMAL OF AN INCH AND OF A FOOT

ILLINOIS DEPARTMENT OF TRANSPORTATION INDEX OF SHEETS & HIGHWAY STANDARDS

F.A.I. ROUTE 74 SECTION (14-1)I CHAMPAIGN COUNTY S.N. 010-0021

DATE: 09/XX/06

(14-1)[

## **GENERAL NOTES**

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR A CHANGE IN SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITIY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

G. N. -100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G. N. -107.12 THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE LOCAL RAILROAD CONTACT IS:

> Mr. Hardy Taylor 1907 Marion Ave. Mattoon, IL 61938 (217) 238-2433

SPECIAL ATTENTION IS CALLED TO ARTICLE 107.12 REGARDING RAILROAD FLAGGERS. THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE RAILROAD FLAGGER CONTACT IS:

> Mr. Tom Tucker 2800 Livernois Rd. Troy, MI 48083 (248) 740-6227

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

F.A.I. ROUTE 74 SECTION (14-1)I CHAMPAIGN COUNTY S.N. 010-0021

CONTRACT NO. 70622

RTE. SECTION COUNTY TOTAL SHEETS NO.

74 (14-1)1 CHAMPAIGN 2.3.4

## **SUMMARY OF QUANTITIES**

LOCATION OF WORK: FAI 74

OVER IC RR

URBAN S. N. 010-0021 100% STATE SFTY-2A

CONSTRUCTION TYPE CODE:

TOTAL CODE NO. ITEM UNIT QUANTITY 67100100 MOBILIZATION L SUM 1.0 X0322066 PROTECTIVE SHIELD (PERMANENT) SQ YD 4, 137. 0 Z0048665 RAILROAD PROTECTIVE LIABILITY INSURANCE L SUM 1.0

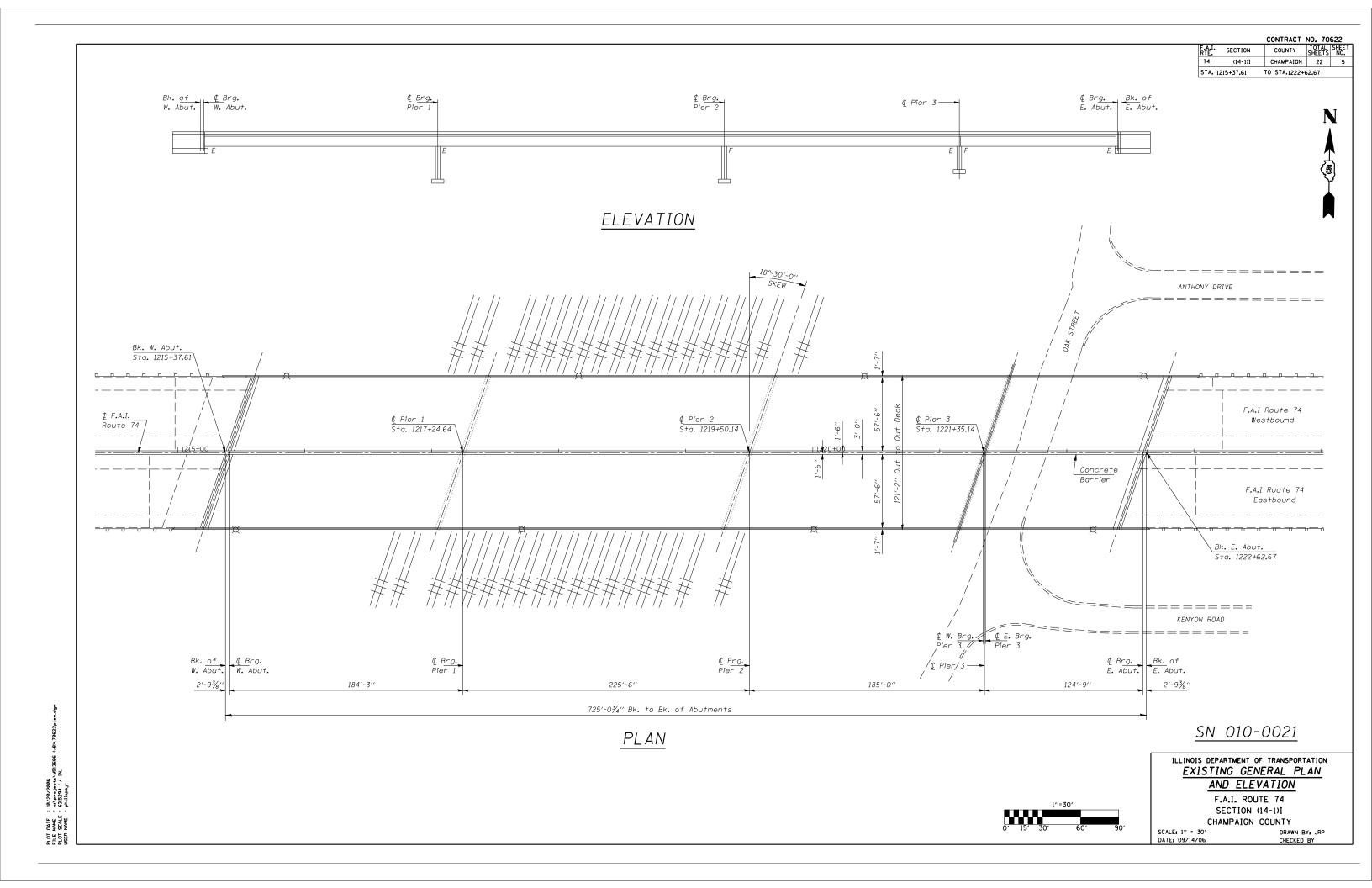
ILLINOIS DEPARTMENT OF TRANSPORTATION

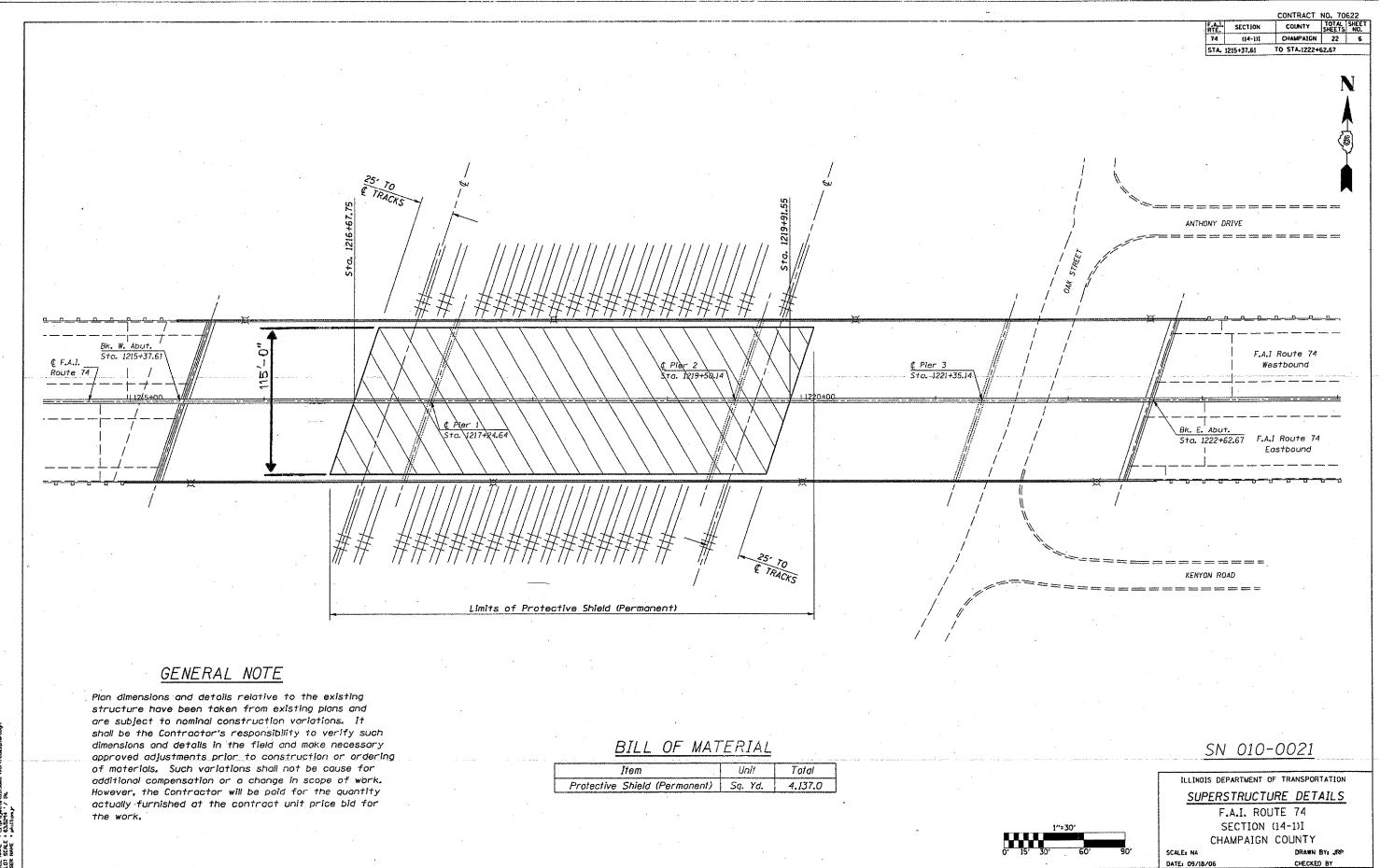
SUMMARY OF QUANTITIES

F.A.I. ROUTE 74 SECTION (14-1)I CHAMPAIGN COUNTY S.N. 010-0021

DATE: 09/XX/06

ILE NAME : arbrejeourläidese (ren78622plen Lot Scale : 186,8986 '/ IN. SER NAME : challesir



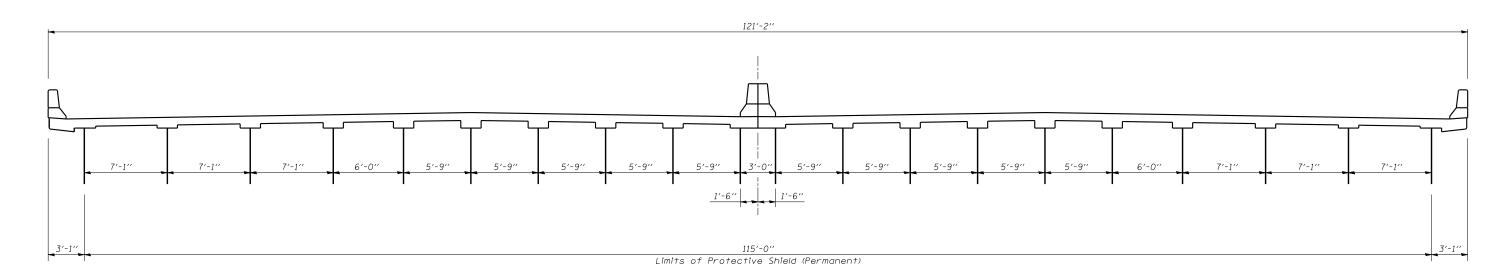


IT DATE = 18/28/2896 E. NAVE = c.nyco.pecs.xx513696 (v81/7862) IR SCACE x 635294 / / IN, IR NAVE = philling.

CONTRACT NO. 70622

F.A.I. SECTION COUNTY TOTAL SHEET'S NO.

## **DETAIL SHOWING BEAM WIDTHS**



CROSS SECTION

SN 010-0021

ILLINOIS DEPARTMENT OF TRANSPORTATION

### DETAIL SHOWING BEAM WIDTHS

F.A.I. ROUTE 74 SECTION (14-1)I CHAMPAIGN COUNTY

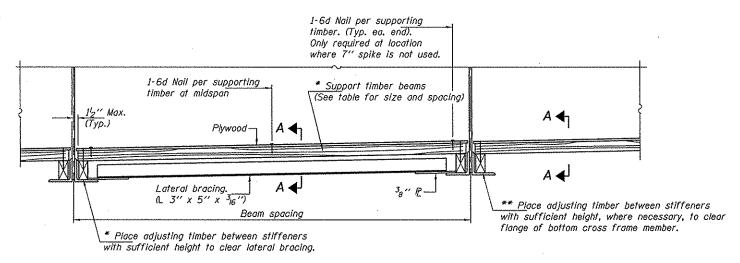
SCALE: NO SCALE
DATE: 09/14/06

DRAWN BY: JRP CHECKED BY

PLOT DATE = 10/20/2006 FILE NAME = colprojects/d513606 (v8)\70622plan.dc PLOT SCALE = 105.8024 '/ IN. USER NAME = philips.jr

.A.I. ?TE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-1)]	CAHMPAIGN	22	8

#### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

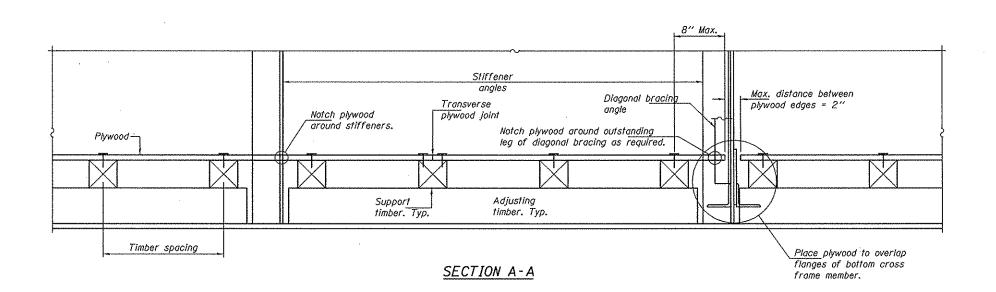


#### BAYS WITH LATERAL BRACING

\* Each adjusting timber section should be attached to the support timber beams at at least 2 locations using 7" spikes.

#### BAYS WITHOUT LATERAL BRACING

\*\* Adjusting timber should be placed tight against top of bottom flange. It may be necessary to trim the adjusting timber in order to avoid interference with gusset plates, rivet heads, etc.



See special provision for Permanent Protective Shield System.

Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions

shown will also be considered acceptable.

For the support timber, the minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable. The adjusting timber may be of any species or grade.

The support timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions.

All timber shall be treated.

Plywood shall be 58" Exterior type plywood.

Plywood shall be placed such that the face of grain is perpendicular to the support timbers. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.

Transverse plywood joints shall be supported by timbers, except as shown. When 4" x 6" support timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.

Design load = 200 psf.

#### SUPPORT TIMBER SPACING

	Timber Sizes (in.)								
Beam Spacing (f1.)		4" x 6" with min. Fb=775 psi Fv=135 psi m Timber Spac	6" x 6" with min. Fb=575 psi Fv=125 psi						
4.5	16	16	16						
4.75	<i>I</i> 6	16	16						
5.0	16	16	16						
5.25	16	16	16						
5.5	16	16	16						
5.75	16	16	16						
6.0	<i>1</i> 6	16	16						
6.25	12	16	16						
6.5	12	16	16						
6.75	12	16	16						
7.0	8	16	16						
7.25	8	.16	16						
7.5	8	16	16						
7,75	8	16	16						
8.0	8	12	16						
8.25	8	12	16						
8.5	6	12	12						
8.75	6	12	12						
9.0	6	8	12						

#### BILL OF MATERIAL

İtem	Unit	Total	
Protective Shield (Permanent)	Sq. Yd.	4137	

SN 010-0021

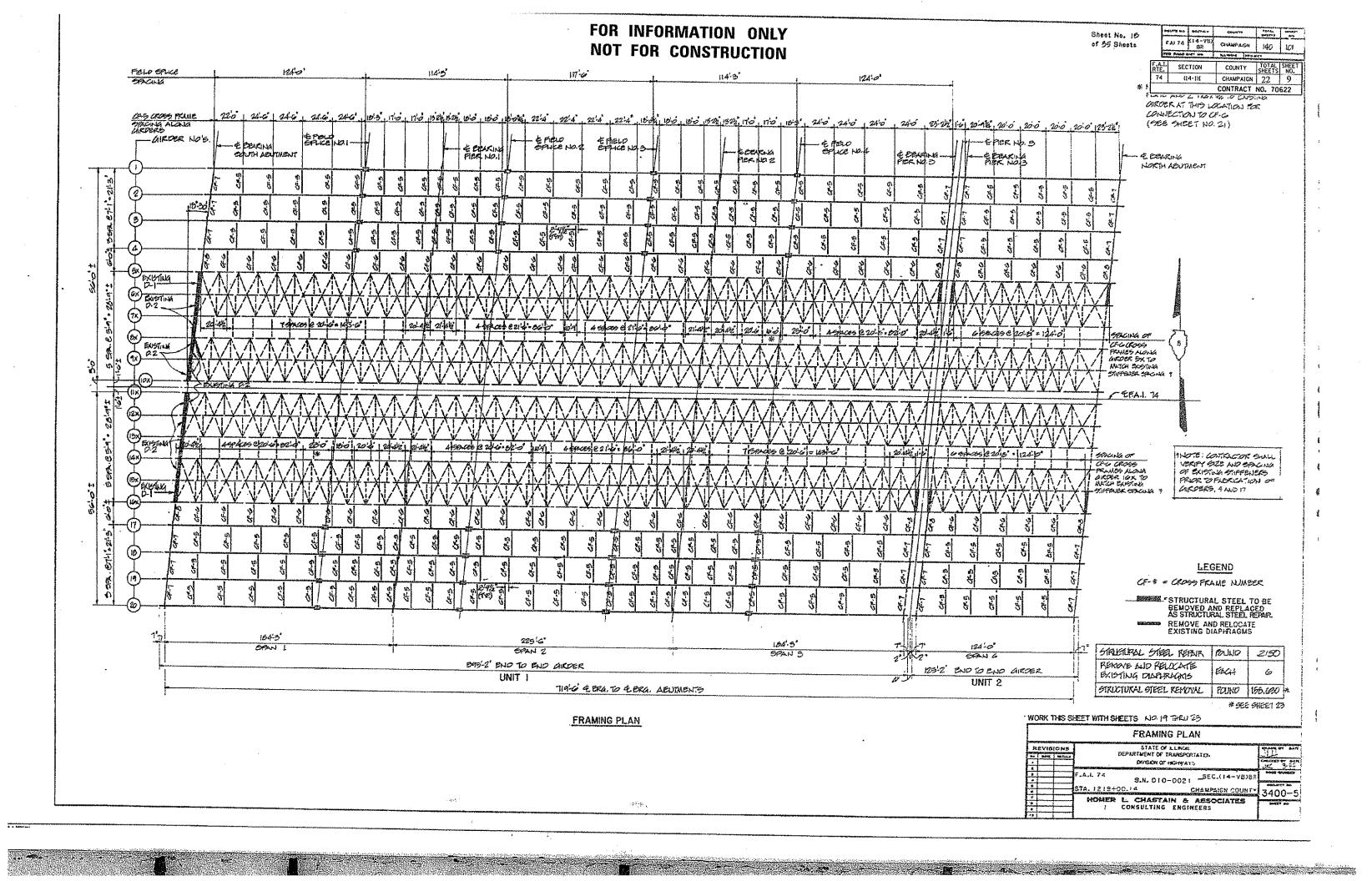
ILLINOIS DEPARTMENT OF TRANSPORTATION

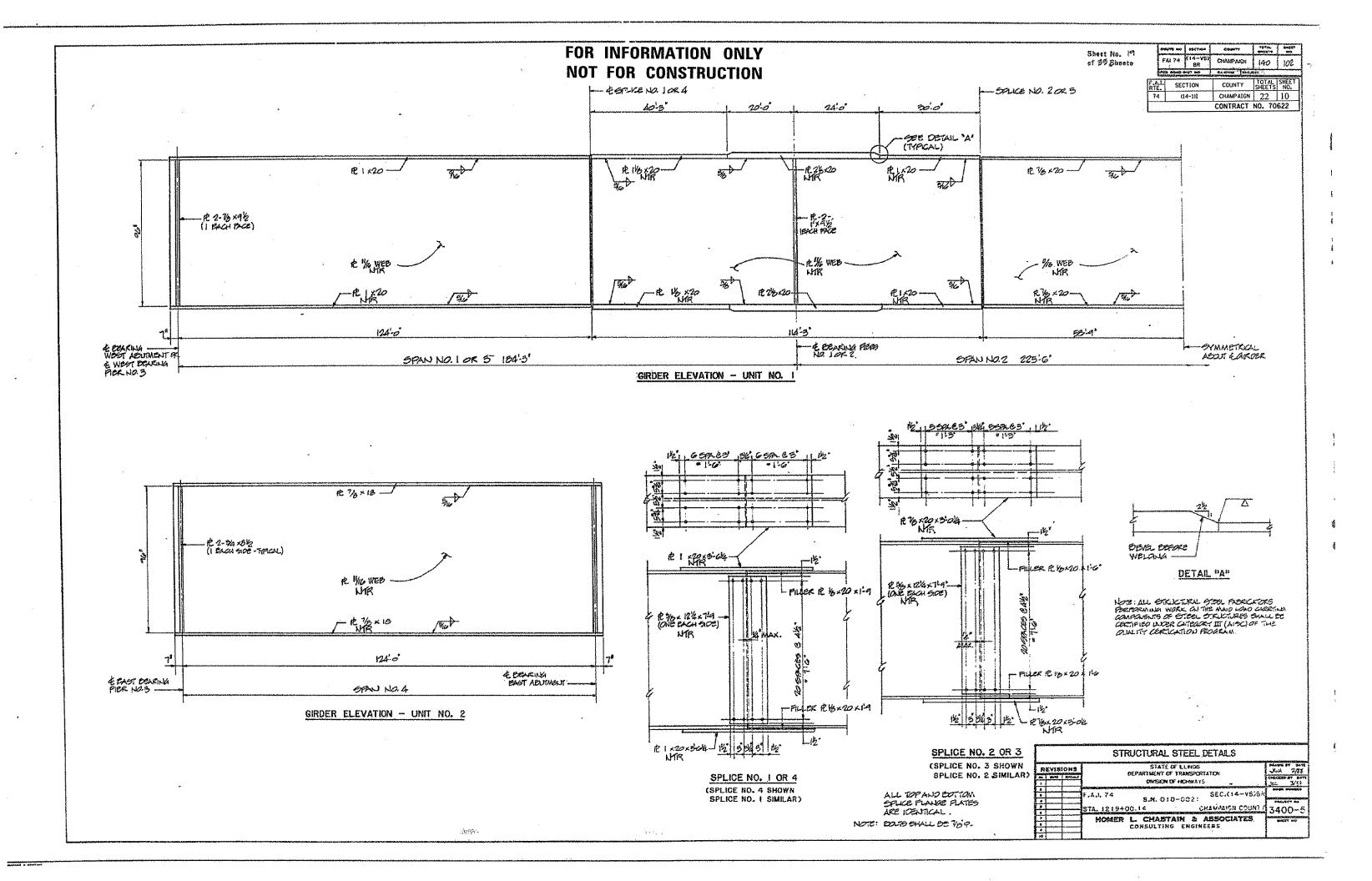
PERMANENT PROTECTIVE SHIELD

FAI ROUTE 74 SECTION (14-1)I CHAMPAIGN COUNTY

SCALE: NO SCALE DATE

DRAWN BY CHECKED BY





| F.A.I. | SECTION | COUNTY | TOTAL | SHEET | NO. | TOTAL | SHEET

FA174 (14-VE) CHAMPACH 140 153

Edmary . | Ports, Backy

# FOR INFORMATION ONLY NOT FOR CONSTRUCTION

- & SPLICE NO.4

4 990005 e31-0"

104-3

1240

EW. BRA.

PERNOS

UNIT I

_				
	INTE	RIOR GIRDER	MOMENT TA	ABLE
9-10-	Α	D.4 Sp. 1	Pler	0.5 Sp. 2
19	(in.)	144,781	255,326	132,807
ic	(in)		F-41-1	
Sa	(in)	2955	5094	27/7
	(in)			
7	(in)			
	(K/1)	1.115	1.115	1.115
He	( K)	2450.5	5059.4	1848.8
50	(k/1)	0.225	0.225	0.225
Kse	{'K)	401.4	10450	390.8
Nt.	(,k)	1892.7	2681.2	1796.3
h (Imp)	('K)	300.1	409.8	251.2
10(Mt+	1)('K)	3500.0	5161.7	3349.8
6	('K)	<i>5</i> 49915	14643.2	7261.1
<b>∤</b> U	('K)	~		
el ron con	p(KSi)	10.0	11.9	8.2
38(00mp)		2.0	2.5	1.7
593(41)		14.6	12.2	4.8
s(Overload		26.5	26.5	24.7
s (Total) (		34.5	34.5	32.1
VK	(K)	79.4	-	84.7

<u>UNIT I</u>

INTERI	OR G	RDER REAC	CTION TABLE
		Abut./9.3	Pier I. Pier
<b>የ</b> ዊ	(K)	88.7	307.6
RŁ	(K)	50.1	125.5
lme	(X)	9.1	18.6
R(Total	)(K)	154.1	451.4

UNIT 2

-**ЕВ.В**РА. ЯВК НО Э

4 40 CES 8 51-0"

ÉBLA. E.ABUT. UNIT 2

INTERIOR GIRDER MOMENT TABLE							
	D.5 Sp. 1						
15 (in )	124,595						
ic (in)							
Ss (in)	2549						
Sc (in)							
2 (in ) 2 (k/1)							
	1.074						
ие ('K)	2064.2						
5R (K/1)	0225						
168 ('K)	4884						
M4 ('K)	12.57.4						
M (1790) ('K)	251.5						
83 (N++1)(1K)	2514.B						
Иа ('K) Ии ('K)	6514.8						
fs@non-comp(k.s.l)	-						
fall (comp) (K.S.i.)	9.7						
	20						
fs5/3 (1:41)(r.s i.) fs(overload)(r.s.i.)	/1.8						
	23.6						
rs(Total) (K.s.i.) VK (K)	20.7						
γκ (κ)	58.1						
1 18.07	9						

UNIT 2

The state of the s							
INTERIOR GIRDER REACTION TABLE							
	-	Pier 3/E. Abort	1				
RQ.	(x)	80.5	1				
£4.	( <u>k</u> )	459	1				
Imp?	(K)	9.5	1				
K (Toh	al)(K) [	139.2	1				

	•
13 AND SS ARE THE MOMENT OF	INTERTA
ALD PECTION MOOULUS OF THE PECTION UPPO IN CONFUTING F	e ener.
ICAND STAKE THE MOMENT OF THE	1000
AND PECTICAL MODULUS OF THE PECTICAL USED IN COMPATINA FS	· //31/3/25
VK IS THE MAKINAIN 'E + IMAC'	

Sheet No. 20

of 35 Sheats

Z PO THE PLACTIC SECTION MODILIS USED TO DETERMINE THE FLUT PLASTIC MONESTS IN THE NON-COMPOSTS AREAS.

MS (APPLIED MOHENT) = 1.3[M2 + 1132+93 (M ++1)].

MU IS THE FILL PLASTIC MOMENT CAPACITY FOR COMPACT, BOXCED SECTION.

fs (averiand) is the sum of the strenges are to MR + Ms R + Sts (M4+1).

fs (TOTAL) IS THE SIM OF THE STRESSES DE TO 1.3 [ME+MSE+ \$3 (M=-1)].

TOP	OF WEB	ELEV	ATIONS -	HAIT I	(F/O	EXCENSE	TION I A	5.87 A.P.
		***************************************		W-111 F	W (M)	POLICIAL	The NATE A	79. T I

LOUX- GIRDER	4-1			***************************************			a-P.   a-20
EBRG. WABUT.							70.15 1761.49
ESPICE NO I	TD.61	770.75	71051	770.70	70.44	Tabo	55 שרון ורשד
EBRG. PIER NO.1	7/250	TOGS	זהשד	72000	TOO	770.50	TO 60 ! TIO 25
espice no 2	710.39	710.55	720.68	110.80	770.50	77077	TIO.66: TO.52
EFRICE NO.3							77000 700.00
EBRA. PEK NO.E							769.59 1769.67
EARLICE NO.4	10844	768.62	769.77	268.91	264.21	364.13	764.04: 768.9Z
EW. BRA. PERNO3	766.51	760.70	744.86	761.02	262.66	161.37	760.29, 7601.18

## TOP OF WEB ELEVATIONS - UNIT 2 (FOR FABRICATION ONLY)

	a-1	4.2	4.3	G-4	a.17	40	i a-19	0.20
4 EBRA. PERNO.3	764.50	16.69	704.05	161.00	161.43	767.36	767. 25	361.17
E ERG. E. ABUT.	763,93	764.14	704.31	764.47	165.02	764.06	704 89.	V15.50

CAMBER DIAGRAM

ו דומט

· E SPUCE NO.2

4 98000 C 24-46

117:6

225-6

719:6 4 BRA. TO E BRA. ABUTHAN'S

-topice No. 3

EAR

No.2-

114-13

EGPLICE NO. !-

4 SPACES @ 810

104:5

E PER NO.1-

EBRA. W. ABUT.

WORK THIS SHEET WITH SHEETS 16, 19, 21, 22, AD 23

	STRUCTURAL STEEL DETAILS	
REVISIONS	STATE OF ALTERNAL DEPARTMENT OF TRANSPORTATES.  DIVISION OF HONIVE.	CARCADO NO DATE
4	F.A.I. 74 S.N. 010-003 SIC.(14-VB)PE STA. 1219+00.16 CHANGE CI.GOV HOMER L. CHARTAIN & ASSOCIATES CONSULTING ENGINEERS	*905 penner

# FOR INFORMATION ONLY NOT FOR CONSTRUCTION

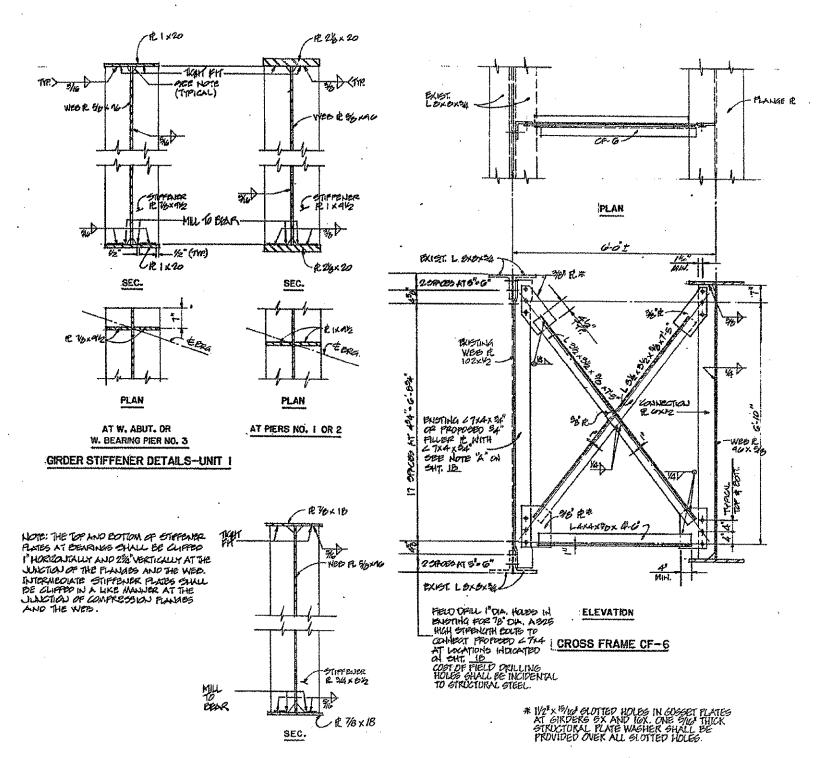
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Sheet Ho. 21 of 55 Sheets FAI 74 14-98 CHANPARN IGO 104
FRE ROADORT HE ELETTE PERCET

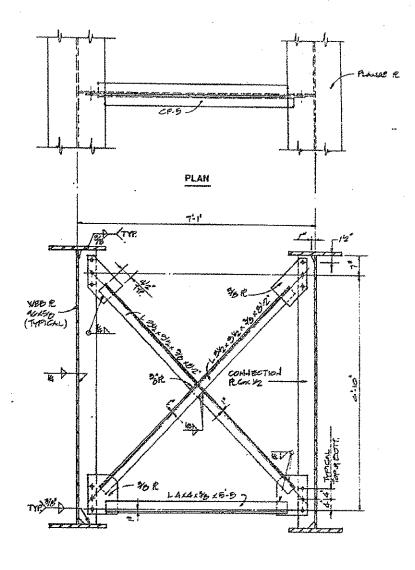
F.A.I. SECTION COUNTY SHEETS NO.

74 (14-1)1 CHAMPAIGN 22 12

CONTRACT NO. 70622



PLAN GIRDER STIFFENER DETAILS-UNIT 2



#### ELEVATION

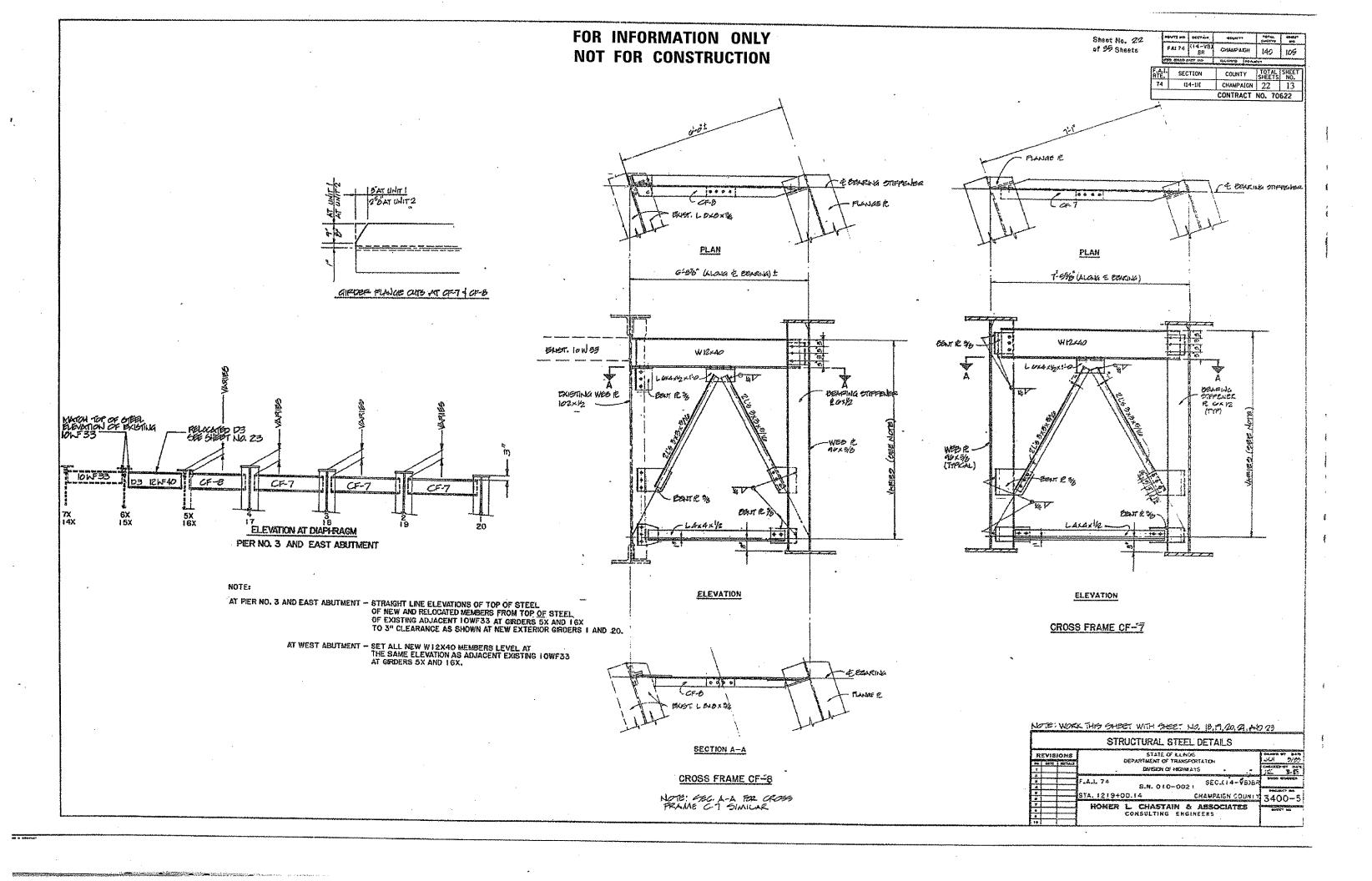
#### CROSS FRAME CF-5

NOTE: ALL BOLTS FOX CROSS FRAME CONNECTIONS SHALL BE 7/8\*4 H.S. HOLES FOX BOLTS SHALL BE 15/10\*4. EXCEPT AS NOTED.

HAROCHEO WAGLEE SHULL EE REFUIRED. OVER ALL HOLES, EXCEPT AS NOTED.

NOTE: WORK THIS SHEET WITH SHEET NO. 15,19,20,22, AND 35

	STRUCTURAL STEEL DETAILS	
REVISIONS	STATE OF LLWOS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	July 7/01 concess or sa
4	F.A.1. 74 S.N. 010-002: SEC.(14-VB)ER STA. 1219+00.14 CHAUPLIGN COUNTY HOMER L. CHASTAIN & ABSOCIATES CONSULTING ENGINERS	WOOD SOMETH

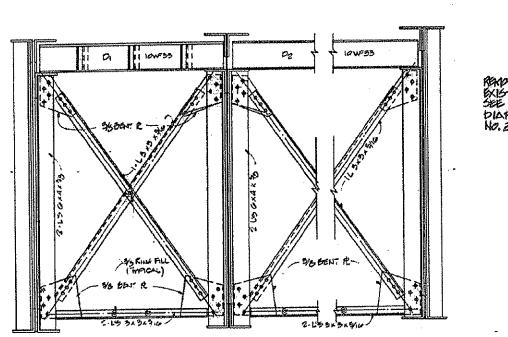


F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	ì
 74	(14-1)[	CHAMPAIGN	22	14	
		CONTRACT	.,0, ,0	622	

## FOR INFORMATION ONLY **NOT FOR CONSTRUCTION**

Sheet No. 29 of 55 Sheets

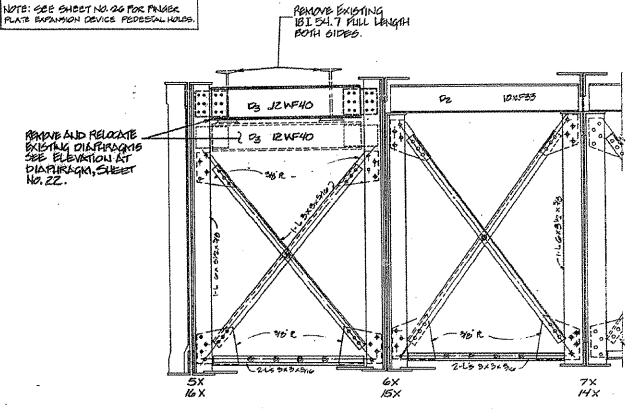
· · · · · · · · · · · · · · · · · · ·	POUTE POL	546777H	594971	TOTAL SMITTTS	Accept Rep
	FA174	K14-V8) BR	Сильтаки	140	1646
	F60, 6040 0	121, ca	States (2000)	,	



**EXISTING CROSS FRAME CF-3** (AT ABUTMENTS)

STRUCTURAL STEEL REPAIR: STRUCTURAL STEEL TO BE REMOVED AND REPLACED WITH NEW SECTIONS:

- 1. ALL EXISTING DIAPHRAGMS (D-1 AND D-2) (10 WF 33) BETWEEN EXISTING GIRDERS.
- 2. LATERAL BRACE AND GUSSET PLATE,
  BETWEEN GROERS SX AND 9X.
  3. BOTTOM HORIZONTAL ANGLES PARALLEL WITH
  ABUTMENT BACKWALL, BETWEEN GROERS SX AND 9X,
  AND 9X AND 10X, SEE SHEET 18.



EXISTING CROSS FRAME CF- 4

EXISTING CROSS FRAME CF-3

CAT PIER 3 AND EAST ABUTMENT

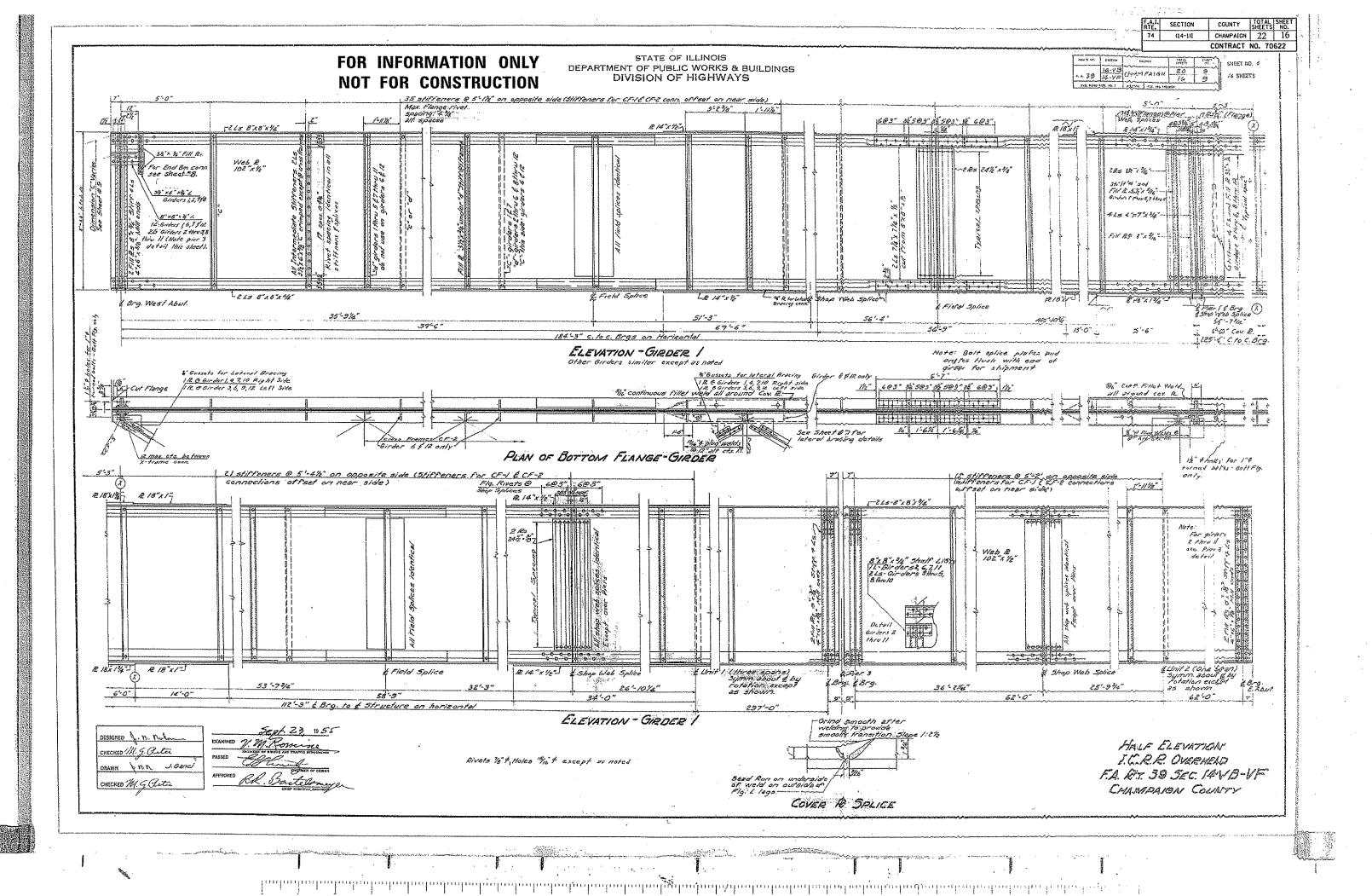
REMOVE AND RELOCATE EXISTING DIAPHRAGMS AT PIER NO. 3 AND AT EAST ABUTMENT: (D3)X12 WF 40) BETWEEN GRDERS 5X AND 6X, AND BETWEEN GRDERS 15X AND 16X.

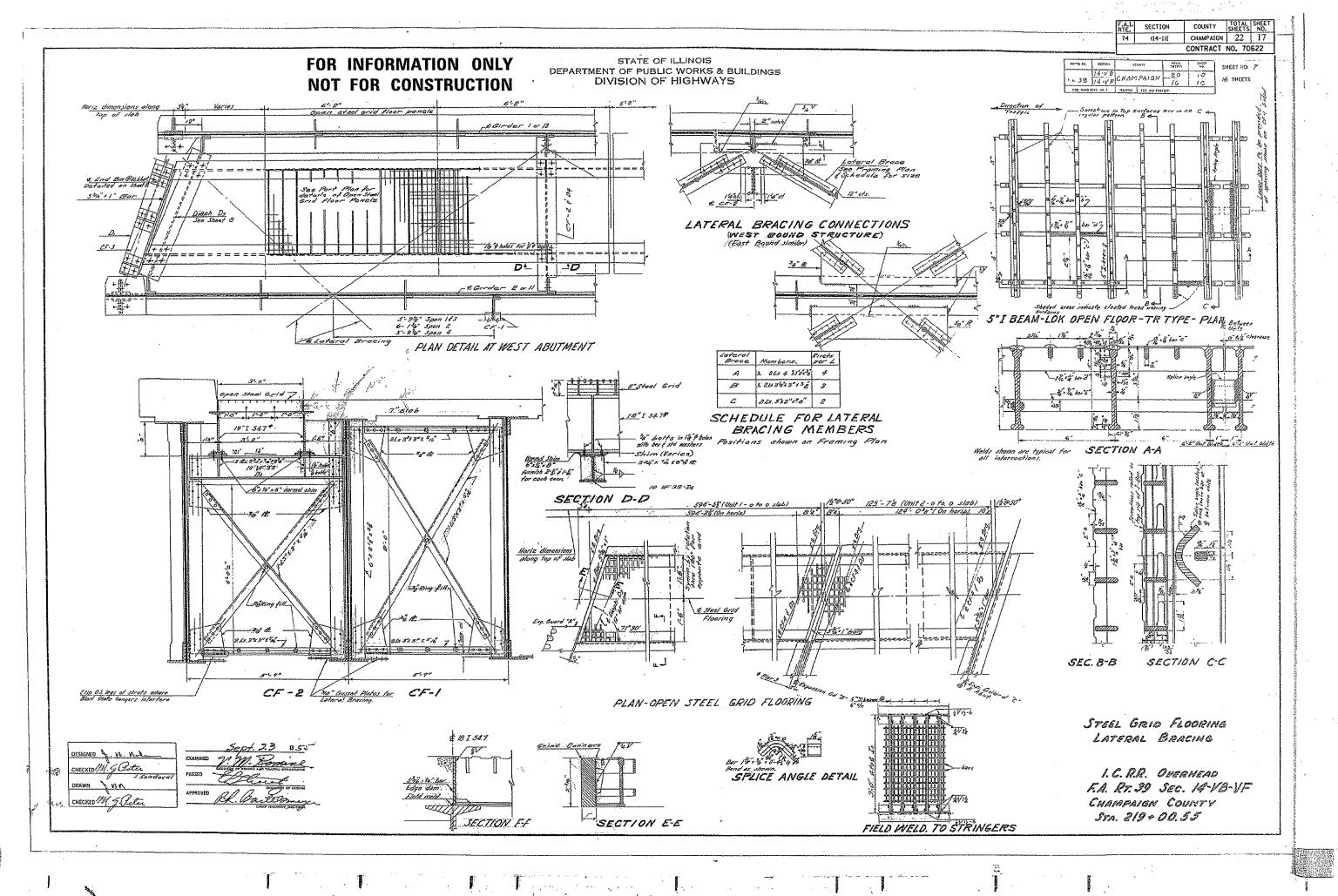
NOTE: THIS SHEET IS FOR REFERENCE FOR STRUCTURAL STEEL REPAR . STRUCTURAL STEEL REMOVAL , AND REMOVAL AND RELOCATION OF EXISTING DIAPHRAGIAS.

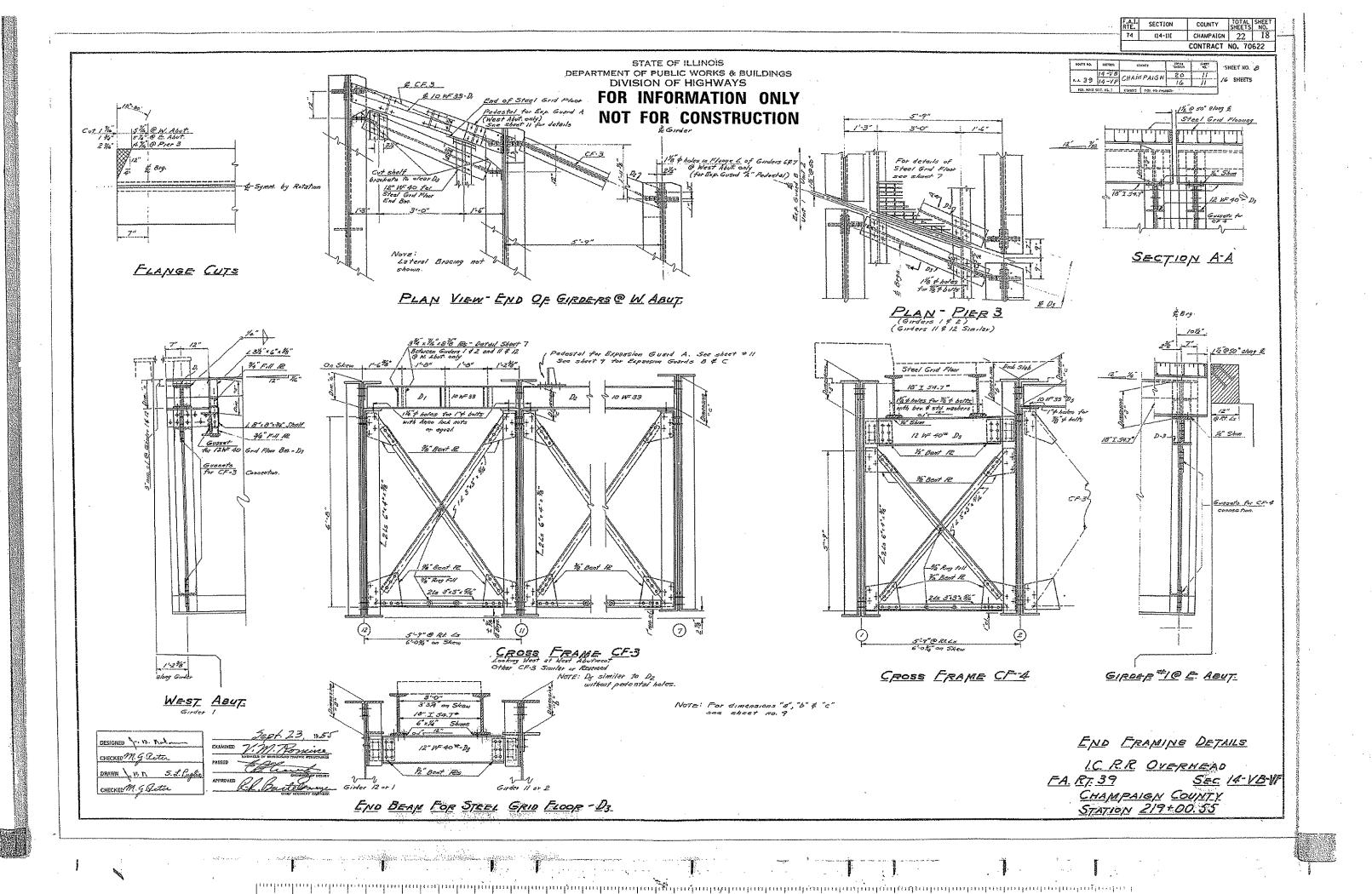
אסדב: אסבר דוום שופור אווא בישובים וא דובע 22

Γ				EXISTING CROSS FRAMES	
7 11 7	EVI	8i * ]	DNS.	STATE OF ILLNOS DEPARTMENT OF TRANSPORTATION DEVISION OF HIGHWAYS	Delicities and delici
				F.A.L. 74 S.N. 010-0021 SEC.(14-V5)57	STATE STATES
		1		STA. 1219400.14 CHAMPAIGN COUNTY HOMER L CHASTAIN & ASSOCIATES CONSULTING ENGINEERS.	3400-5
(12)	-	1			

popular sales de la companya del companya del companya de la compa SECTION COUNTY CHAMPAIGN 22 15 (14-1)[ CONTRACT NO. 70622 STATE OF ILLINOIS FA 39 14-VF CHAPIPAIGN 20 5 16 SHEETS 113 None after 60 1 Livery Livery Project ... DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS Note: Framing Plan for West Bound Structure is identical to East Bound Structure except for Cross Frams 472 and IBISATassembly which are to be placed between Girders 1/2 FOR INFORMATION ONLY **NOT FOR CONSTRUCTION** 184'-3" C. to C. Brys. on herizental 5/-3" ato c. Websplice 53'~84" 5'-0" 5'-16" 5"-16" 3 sper @5"-14 re East Bound Structure \$ Brg. @ W. Abutment Field Splice Pier If Shop Splice Structure SPAN I-UNIT I see schedule i details sheet SPAN 2 - UNIT 1 184'-3" c. to c. Brgs on Horiz 124'-0" c. to c. brgs. on Horizontal 32'-3" 53'-7%" 10'-10%" 56'-4" 35"-94" 51'-75" Dze 161-14" 36'-24" 7 Spaces @15+45" 15"-44" 6 85-4% 5-0-15-15 1544 3 3pcz 05-14 3 Spcs. 65-14 5-16 , 545, 5-00 5-2-5-2-5-2 17'-5%" 18159.7 & Pier 2 & Strop Splice E Field Splice Field Splice & Shop Splice Shop Splice BASE PLAN-EAST BOUND STRUCTURE SPAN 4 - UNITE SPAN 3-UNITI LINE ELEV. 6/RDER ELEV. / 767.77 E 167.72 Vert. curve of 3 Ochlected Girdon Theoretical Camber Curve of tap Flg. Ls Based on Total D.L. Deflection Length 7 35'-94" 55-4-53"-" 38'-3" 53"-84" Langth 35-9%"
Between Field Splices 35'-94" 107-7" 94'-64" 118'-24" 35 6 9/6" 2" TYPICAL CAMBER DIAGRAM FOR ALL GIRDERS Jept. 23, 1955 EAST F WEST BOUND STRUCTURES COMPUTED . M. M. L.
CHECKED M. J. C. ENGINEER OF MINOS ( PROPER STRUCTUM W denotes West bound structure - Girders I thru & Deflection due to steel - 40% Deflection due to concrete - 60% FRAMING PLAN DRAWA F B IN E denotes East bound structure - Girders 7thru12 I.C.R.R. OVERHEAD CHECKED M. G. C. FA RT. 39 SEC. IN-VB-VF CHAMPAIGN COUNTY STA. 2/9+00.55







F.A.I. RTE.	SECTION	COUNTY	YOTAL	SHEET NO.	
74	(14-1)[	CHAMPAIGN	22	19	~
		CONTRACT	NO. 70	622	

#### DINIENSIONS "A" FO"

192	Consumbance of	Transport Value	or contract of	de marie de l'acces
1	West	Bound	East.	gound
	α	Ъ	α	Ь
		Girder2	Girdeilk	Girberii
7.3	1-3%	/-34	1-4%	1. 45
2	1 27	1.28	1:-1%	1: 15
3	1.24	1-22	1:- 17	7-3%
4	11.28	1-23	1-3%	11-12"
5.	1:25	1-23	1:35	1-9%
8	1'-21"	1-25"	1-3%	1-34
7	1-24"	1-24	1-3%	1-3%
8	1. 216	12%	1:2%	17.1%
9,	120	1.2%	1-25	1:25"
10	1 28	11-21	Y-2≸	1.2%
1/		1:13"	1-318	14 3/2
12	17-32	1-2%	100 gr	1522
13	1:21	1-2%	1-24	1-24
19	1'-34"	1-37	1-25	15 67
15	/-3% /-34	193%	1-2%	1. 23
16	7 34 Y	1-25	1'-E%	7. 04
18	7 - 37	1-28	7:2%	15.8
19	11-23	1-216	1-24	1.0%
20	1-28	1-2%	1200	1023
27	1-29	1-27	1-24	1-25
22	1'-E3"	15-24	1-24	14.25
23	1.2%	1-2%	1-2%	1.24
29	y=3.	1425	1'-286"	1.72
25	1-36	12%	1:2%	1:13/
26	/-3%		1-2%	1:2%
. 27	1-25	1.24	1-24	1.14
28	1'-3/2	1-24	1.2%	1.2%
29	/-3"	1-24	1:24	1. 17
30		1-25	7-2	/ 2/2
3/	1-28		1-15	1.72
32	1-2%	1-25	1418	177
.99 .34	7(-3%) 7-3%	1-25	1-18	17672
35	1-3/6		14.2	1:19
36	1.3%	/-3/8"	1-18	7-15
37	7-34	1-36	11-12	1.02
38	/-32	1:32	1-14	1:25
99	1144	1-3%	15/37	11.27
10	1-45	1'-3/2"	11-12	1: 25
11	1-4%	1-38	1-A	1.12
12	1-9%	103%	1:186	1:18
13	1:4%	1-3%	1:1%	11.14"
5.5	1-3/2	1:3%	11:16	1:13
45	1:4"	1-3%	1:18	1:14
16	1-24	7°3/6	1-5	1.24
	1-11	17-35	15-14	7 2%
47	11.45	1298	7	1-28

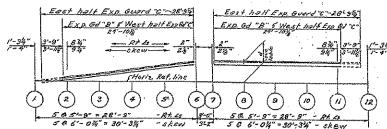
#### DIMENSIONS "C"

	and the same state of			9 20 20 20 20 20 20 20 20 20 20 20 20 20
Girder	West Abot	W Bro Pier 3	E Bry Fier 3	Abut
/ :	1'-0%"	g <u>agasa</u> k Salah		
2	1-1%	1-02	/-0年	1-0%
3	1-2%	1-14"	1-1%	1-04
4	1-2装	1-1%	1-14"	1-1
5"	r-3½"	1-18	1-12"	1-14
8	1-16"	/-/光"	1-1%	11-1新
7	/'- 3 <u>}</u> ''	1'-5%"	1'-518	11-8"
8	1-2%	1-436	1-4%	1-4%
9	1-2%	1-3%	1-3%	1-3%
10	1-17	1-27	1-24	1-2%
11	1-14"	1-13"	1-14"	11-12
IR	1-0%			*******

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

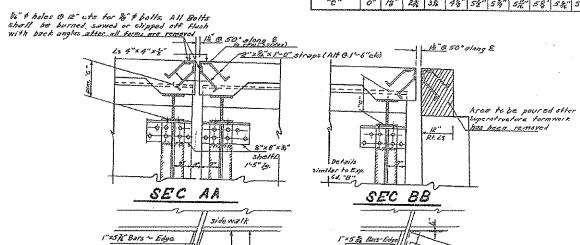
## FOR INFORMATION ONLY **NOT FOR CONSTRUCTION**

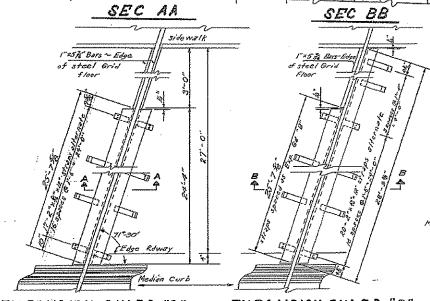
<del></del>	······································	~~~~			WOOMMONE ETHOR	**************************************	****
POUTE NO.	SECTION	. 40	exty .	TOTAL SURGES	Riter No.	SHEET NO.	3
v. 133	14-VE	CHAN	PAIGU	20 16	18	/# SHEETS	
ו פונות אונות	257, 80, 7	TUEST	1/4 1/4				



### EXPANSION GUARD "B" F"C" PROFILE

DIMENSIONS "d"												
EXP. Gd.	,	2	3	4	5	6.	7	В	9	10	17	12
'' <i>8</i> ''	0-	1"	2"	2%	3%"	7%	5#	455	14	14	4%"	4书"
″c "	0"	15"	23	37;	4省"	55.	5岁"	5#"	28.	5°%;"	5%"	5%

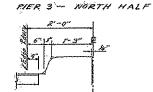




Note: The Readway Expension Guards "B" of "C" sholl be Tahricated to tit Roodway. Est wit included in Bill of Material on sheet 4 is 3020 lbs.

EXPANSION GUARD "B"

EXPANSION GUARD "C" EAST ABUT - NORTH HALF



EXPANSION GUARDS "B" \$"C" DIMENSIONS "B", "B" \$" "B"

STRAP DETAIL HALF CURB SEC.

I.C.R.R OVERHEAD FA. RT 38 SEC. XAVE-VF CHAMPAIEN COUNTY 57A. 219+00.55

DRAWN PER CHECKED M. S. Peter

DESIGNED . J. 12. No.

CHAMPAIGN 22 20 CONTRACT NO. 70622 T METAL CHEEF NO. // STATE OF ILLINOIS FOR INFORMATION ONLY DEPARTMENT OF PUBLIC WORKS & BUILDINGS 14-VB CHAMPAIGN 20 14 16 SHEETS DIVISION OF HIGHWAYS NOT FOR CONSTRUCTION FOR POID DET. NO. 1 REISSON FROM HO PRINCE 29'-2/6 Dæ HALF ELEVATION OF STEEL FABRICATION HALF ELEVATION OF PORDWAY ELEVATION-EXPANSION GUARD-A WEST ABUTMENT DETAIL OF FLAME CUT PLATE Match mork after cutting 614x 12" L - 6" long 18 Sper @ 6-0" = 26'-0" 3477 1516 BS 12 holes Ta Anchor Bot ZAholes in Pedestal L **三五**和 DETAIL OF END PLISESTAL NOTES Symmety rotation thru 180 Finger Plotes shall be l'e" thick provided by Art. 55.4() of the Std. Specs.
The readway expansion & Stall be fabricated and erected to fit the readway expansion & Stall be fabricated and erected to fit the surfaces of the roadway and sidewalts.
All Welds shall be Taccont unless otherwise noted.
Readway expansion guards shall be assembled in the shop in proper position and shall be last assembled for shop imposition before pointing.
For printing shall be done in accordance with std specs. 57.4(2)
Expansion Guards, Bolts of Nots will be paid for at the unit price bid for Structural Steel. The who of Expansion Guard A complete for bridge included in the Bill of Material on Sheet No.4. as Structural Steel is 11,300 lbs.
Pant surfaces that are maccossible efter erection with two shop costs PLAN-EXPANSION GUARD A 112 X 8 Sauk. 12 2-10'CR4 15 2-112 on stew 11 0 A+15 1-11 10 Rt 15 2/44°16"X18" L'OKONSION L'INO ON SKOW 15 Bavals Paint surfaces that are inaccessible after eraction with two shop coats of red (and paint)

- of red (and paint)

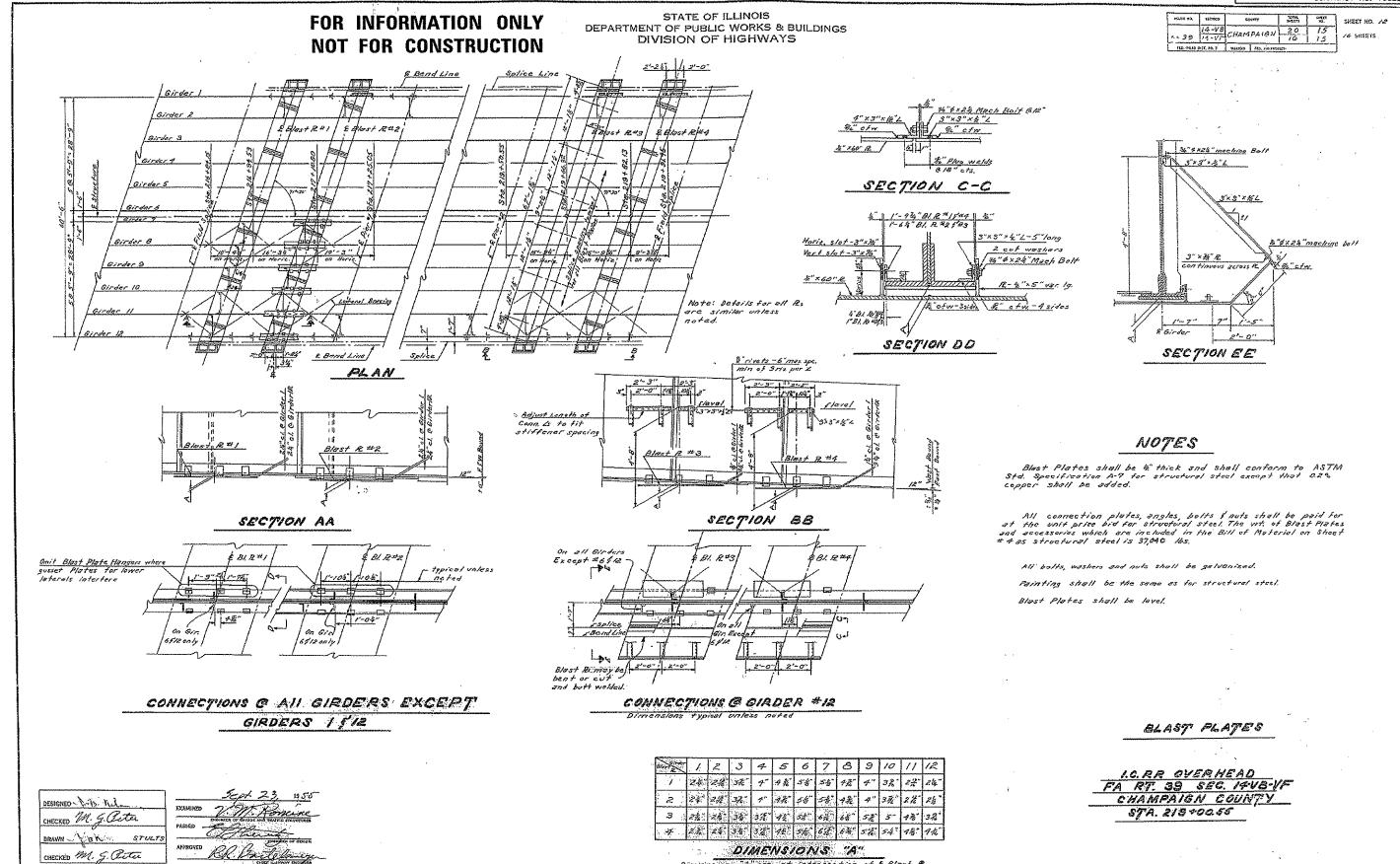
- Copper bearing steel (ASTH designation A-T with 0.2% copper added) shall be used in the tinger plates, 4 (6" \*12 Ls , 3" • 7" • 1%" Pes and the life of steeling steel la after deflection Cut off At ley of L. 4-764 rail boles A-1 + bolts colona SEC.-B-B # Washers 3" y 3" 18 sq. SEC.-C-C 2 # Adi Hole EXPANSION GUARD A 2. W shime for all pedestals plus (WEST ABUTMENT) 2"x516"x1-3" Strope I.C.A.A. OVERHEAD F.A. RT. 39 SEC. 14-VB-VF DESIGNED NAMAN. Provide 2 nuts & CHANDAIGN COUNTY CHECKED M. G. Peter STM. 219+00.55 SEC-A-A DRAWN A TO SEC-DO

RTE SECTION

COUNTY

FALL SECTION COUNTY TOTAL SHEET NO. 74 (14-1)1 CHAMPAIGN 22 21

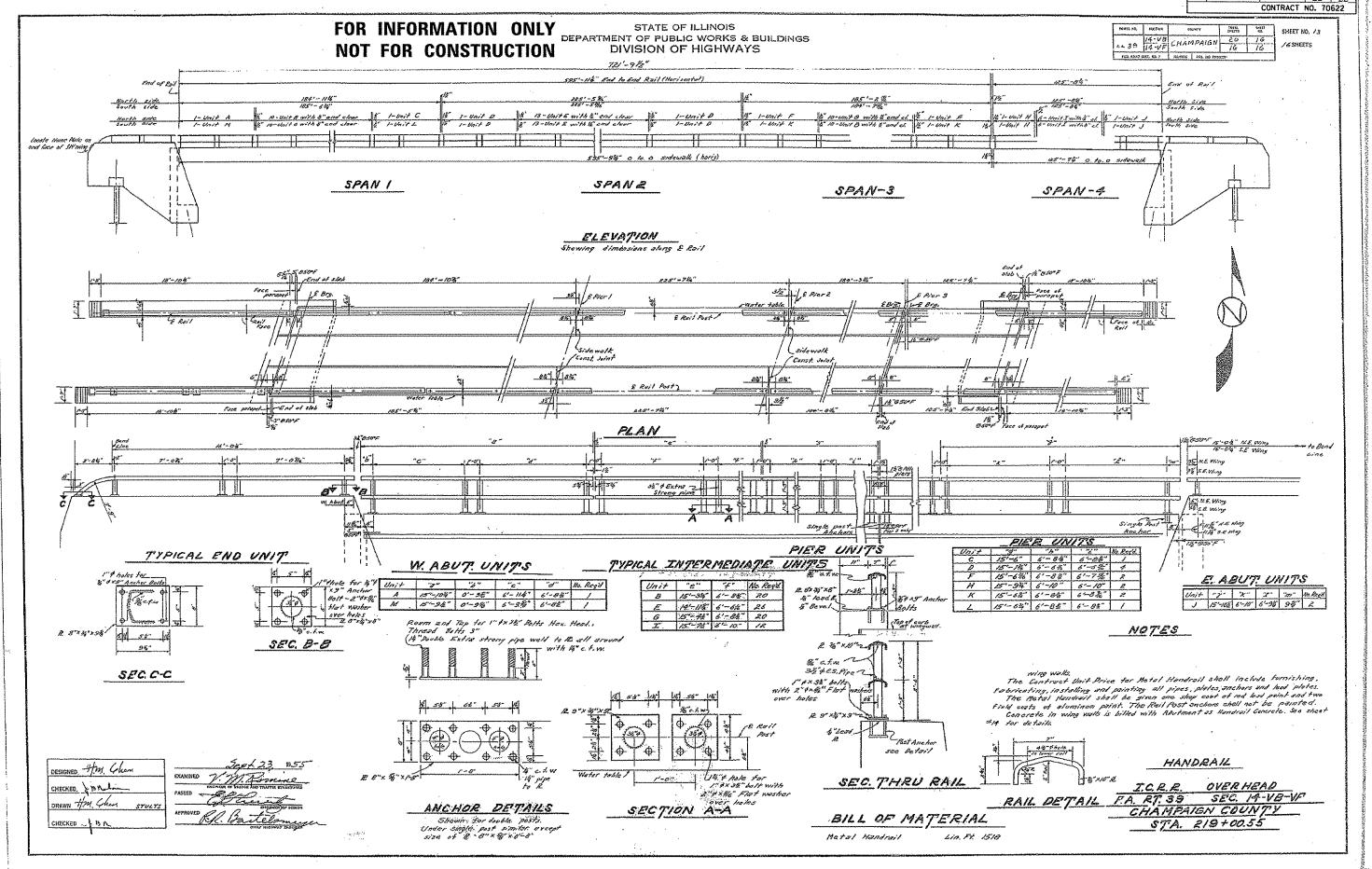
CONTRACT NO. 70622



Pimensions A gra st. Intersection of & Blast &

SECTION COUNTY TOTAL SHEET NO. (14-1)[ CHAMPAIGN 22 22 CONTRACT NO. 70622 TOTEL SAILT SHEET NO. 13 14-VB CHAMPAIGN EO 16 SHEETS to Bond Tm - 35 N.E. Ming 98 S.E. Ming Single Past of Single Wing Single Past of Single Pa 18\*8557 E. ABUT! UNITS Uni+ "j" "x" "x" "m" 10 Regs.

J 15'-102 5'-10' 6'-98' 94" 2 NOTES HANDRAIL OVER HEAD I.C.R.R. FA. RT. 39 SEC. 14-VB-VP CHAMPAIGN COUNTY



· F