07-31-2020 LETTING ITEM 027

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	1
	ILLINOIS * CONTRACT NO. 68F61			

*25 + 1 = 26 TOTAL SHEETS

D-94-051-20

INDEX OF SHEETS

HIGHWAY STANDARDS

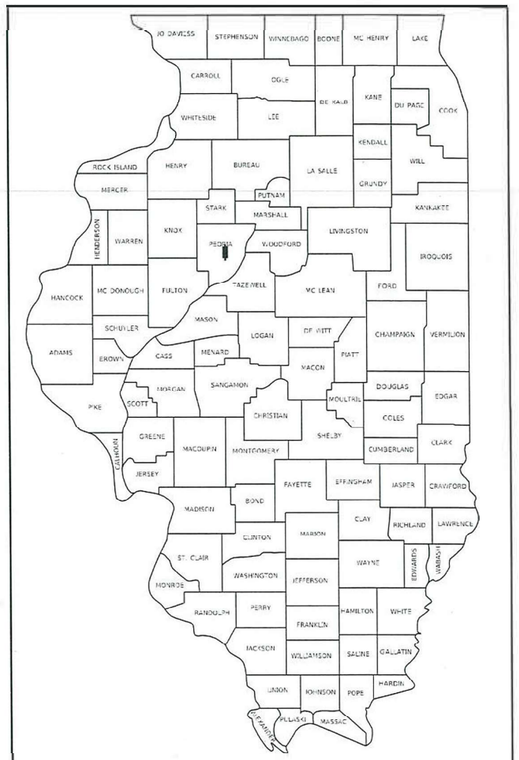
000001-07
001001-02
001006
701101-05
701311-03
701321-18
701901-08
704001-08
780001-05
782006-01

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAP ROUTE 318 (IL 6)
SECTION (72–7HB–3)BRR
CONTRACT MAINTENANCE
BRIDGE REHABILITATION
PEORIA COUNTY

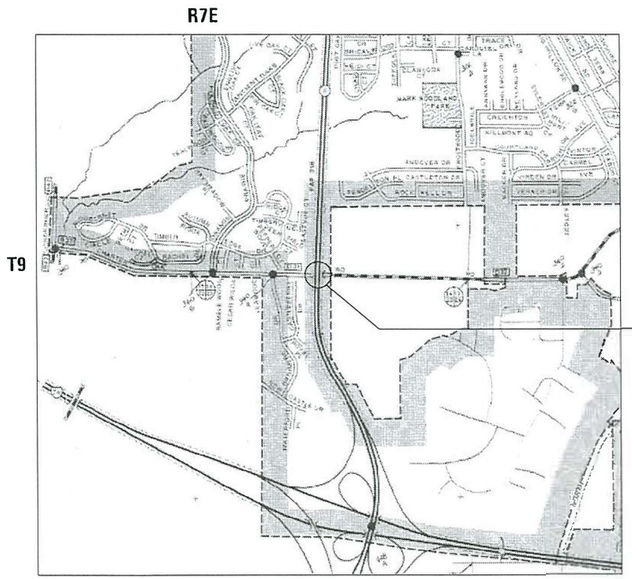
C–94–081–20



LOCATION OF SECTION INDICATED THUS: –

IL ROUTE 6
FUNCTIONAL CLASSIFICATION: FREEWAY
AADT = 35,000 (2019)
S.U. = 3.57%
M.U. = 3.00%
POSTED SPEED = 65 MPH

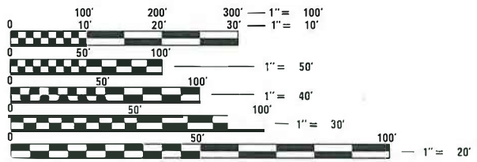
CHARTER OAK ROAD
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
AADT = 4,700 (2017)
S.U. = 3.15%
M.U. = 0.90%
POSTED SPEED = 50 MPH



PROJECT LOCATION
NORTHBOUND IL ROUTE 6
S.N. 072-0138
WORK TO BE PERFORMED
FROM CHARTER OAK RD

PROJECT DESCRIPTION

PROJECT CONSISTS OF SUBSTRUCTURE REPAIRS TO PIERS 1 AND 2 OF S.N. 072-0138 CARRYING IL 6 OVER CHARTER OAK RD IN PEORIA.



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1–800–892–0123
OR 811

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 14, 2020
Kensil A Garnett KSD
REGIONAL ENGINEER

June 26, 2020
ENGINEER OF DESIGN AND ENVIRONMENT

June 26, 2020
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: MIKE LEWIS (309)671–3454
PROJECT MANAGER: TRAVIS WALLENFANG (309)671–3474

CATALOG NO. 036059–00D
CONTRACT NO. 68F61

REV. 7/2/20

COMMITMENTS

No commitments have been made for this project.

PROPERTY OWNER ACCESS REQUIREMENTS

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short–term closures.

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run–arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

The required environmental resource documentation shall include the following:

* BDE Form 2289 (Cultural and Natural Resources Review of Borrow Areas)
* BDE Form 2290 (Waste/Use Area Review)
* A location map showing the size limits and location of the use area
* Color photographs depicting the use area
* Borrow Area Entry Agreement form – D4 PI0101

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

Please note that a minimum of four weeks shall be allowed for the District to obtain the required environmental clearances and six weeks for the required borrow site environmental clearances.

PROJECT SPECIFIC NOTES

All work on the piers shall be performed from Charter Oak Rd.

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	DRAWN -	REVISED -	
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PLOT DATE = 5/14/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMITMENTS, GENERAL NOTES, AND PROJECT SPECIFIC NOTES

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	2
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		

			URBAN	CONSTRUCTION CODE	
				PEORIA	
				100% STATE	
				CONT. MAINT.	
				S.N. 072-0138	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0013	
50300225	CONCRETE STRUCTURES	CU YD	1.1	1.1	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	230	230	
58700300	CONCRETE SEALER	SQ FT	58	58	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	790	790	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	6	6	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	329	329	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	300	300	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	300	300	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	790	790	

*= SPECIALTY ITEM

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USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	
	DRAWN -	REVISED -			
PLOT SCALE = 1.100	CHECKED -	REVISED -			
PLOT DATE = 5/14/2020	DATE -	REVISED -			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	3
		CONTRACT NO. 68F61		
		ILLINOIS FED. AID PROJECT		

REV. 7/2/20 REV. 6/18/20

URBAN

CONSTRUCTION CODE	
PEORIA	
100% STATE	
CONT. MAINT.	
S.N. 072-0138	
0013	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	12	12	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	85.4	85.4	
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	3	3	

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	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED -	REVISED -	
PLOT DATE = 5/14/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	4
		CONTRACT NO. 68F61		
	ILLINOIS FED. AID PROJECT			

REV. 7/2/20 REV. 6/18/20

N

IL ROUTE 6 (SB)

IL ROUTE 6 (NB)

CHARTER OAK RD

13 14 15+00 16 17 18 19 20+00 21 22 23 24 25+00 26 27

164 165 166 167 168 169 170+00 171 172 173

S.N. 072-0138

PC Sta 172+35.70

PLACE BARRELS TO CLOSE OUTSIDE SHOULDER OF IL 6 UNTIL REPAIR WORK COMPLETE (HWY STD 701101 - SIGNS WILL NOT BE REQUIRED)

MODEL: Default
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	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED -	REVISED -	
PLOT DATE = 5/14/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT LOCATION

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	5
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		

MOBILIZATION	
LOCATION	L SUM
JOBSITE	1

CHANGEABLE MESSAGE SIGN	
LOCATION	CAL DAY
CHARTER OAK RD	6

2 Signs @ 3 days each

PAVEMENT MARKINGS			
	BLACKOUT TAPE 5"	SHORT TERM PAVEMENT MARKING REMOVAL	MODIFIED URETHANE, 4" YELLOW*
LOCATION	FT	SQ FT	FT
CHARTER OAK RD	790	329	790

Need for re-striping of centerline to be determined based on condition of existing striping after removal of Blackout Tape

TRAFFIC CONTROL & PROTECTION								
	TRAFFIC CONTROL & PROTECTION, STANDARD 701321	TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY RUMBLE STRIPS	IMPACT ATTN, TEMPORARY (NON-REDIRECTIVE) TL3	RELOCATE TCB	RELOCATE IMPACT ATTENUATORS
LOCATION	EACH	FT	EACH	EACH	EACH	EACH	FT	EACH
CHARTER OAK RD	1	300	12	1	6	2	300	2

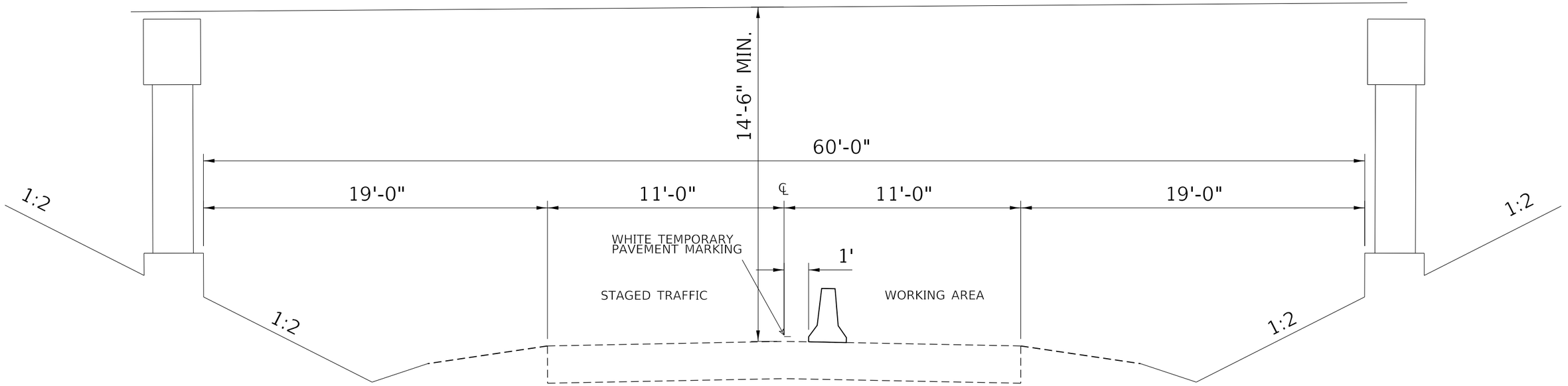
USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED -	REVISED -	
PLOT DATE = 5/14/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	6
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		



CHARTER OAK RD
LANE CLOSURE TYPICAL

NOT TO SCALE

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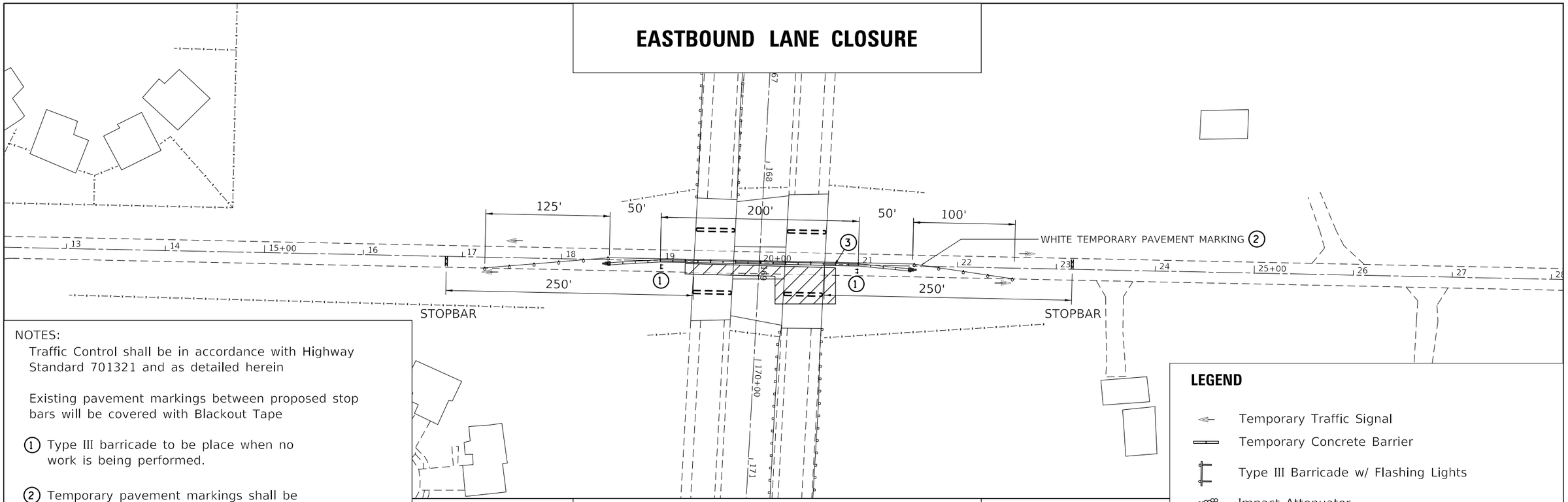
	DRAWN -	REVISED -	
PLOT SCALE = 1:50	CHECKED -	REVISED -	
PLOT DATE = 5/14/2020	DATE -	REVISED -	

TYPICAL SECTION

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	7
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		

EASTBOUND LANE CLOSURE



NOTES:

Traffic Control shall be in accordance with Highway Standard 701321 and as detailed herein

Existing pavement markings between proposed stop bars will be covered with Blackout Tape

(1) Type III barricade to be place when no work is being performed.

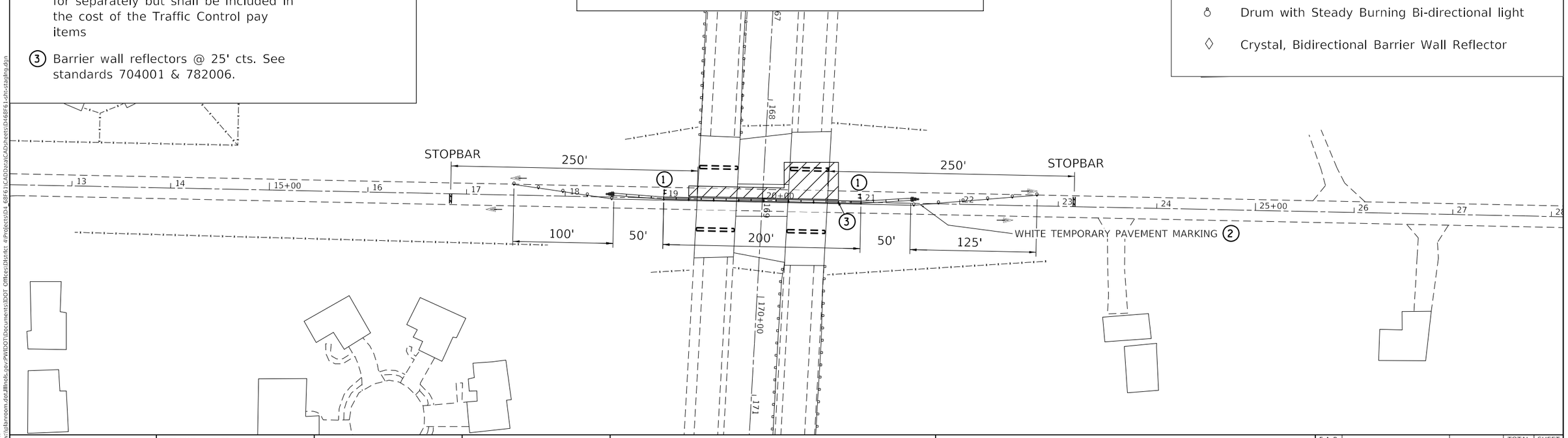
(2) Temporary pavement markings shall be Type 3 or Type 4 temporary tape. The cost of placing and removing temporary pavement markings shall not be paid for separately but shall be included in the cost of the Traffic Control pay items

(3) Barrier wall reflectors @ 25' cts. See standards 704001 & 782006.

LEGEND

- Temporary Traffic Signal
- Temporary Concrete Barrier
- Type III Barricade w/ Flashing Lights
- Impact Attenuator
- Work Area
- Drum with Steady Burning Bi-directional light
- Crystal, Bidirectional Barrier Wall Reflector

WESTBOUND LANE CLOSURE



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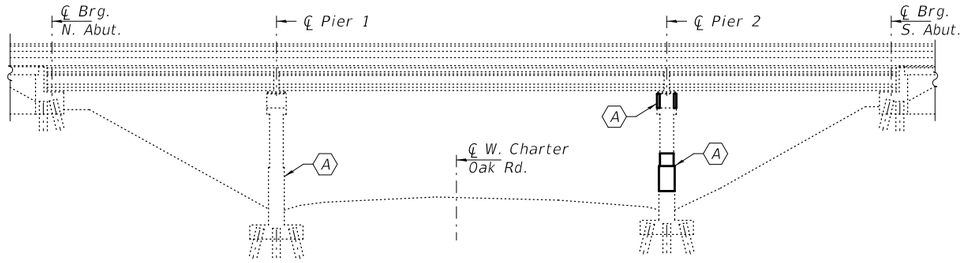
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED -	REVISED -	
PLOT DATE = 5/14/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

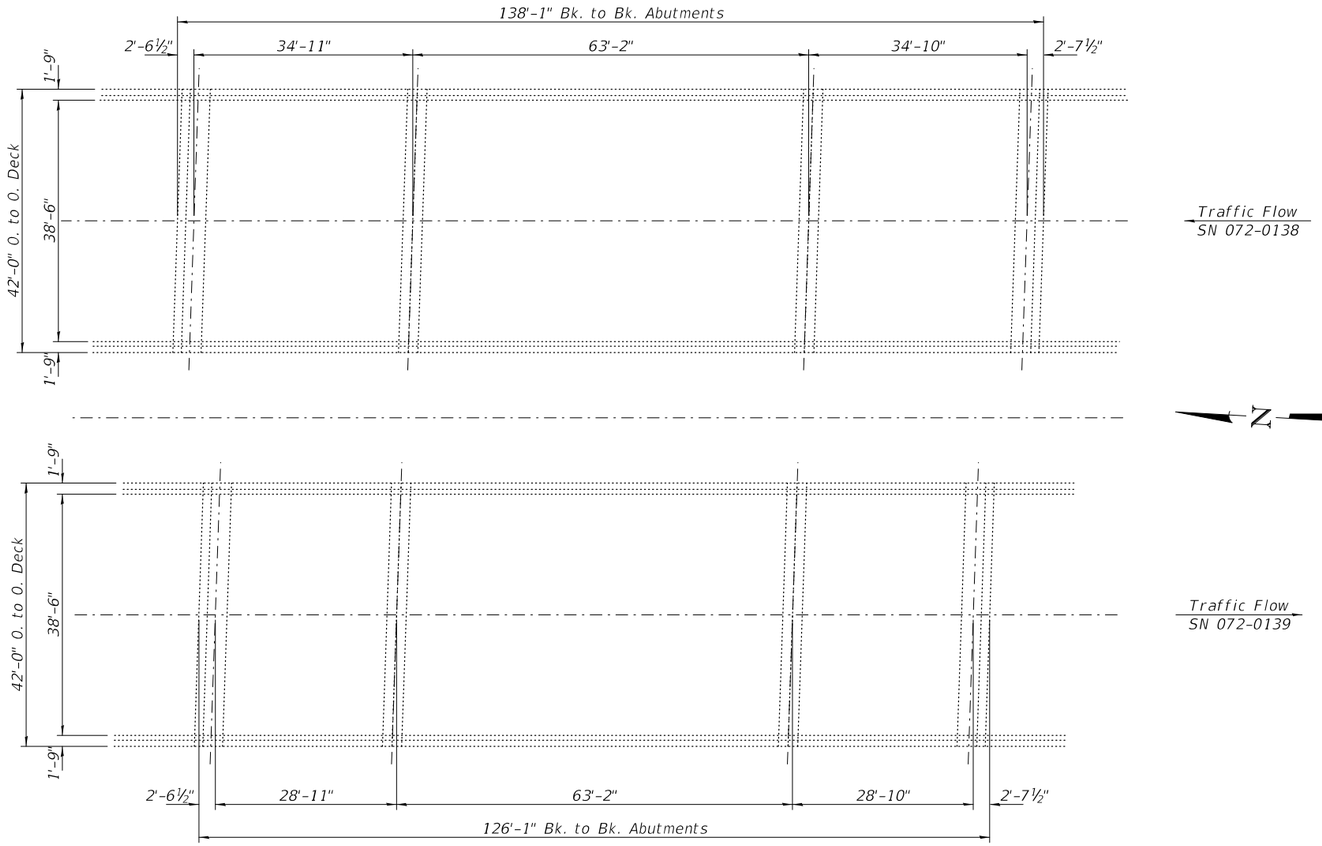
LANE CLOSURE DETAIL
STANDARD 701321

SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	8
		CONTRACT NO. 68F61		
	ILLINOIS FED. AID PROJECT			



ELEVATION
(Looking East)



PLAN

Ⓐ - Substructure Repair

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
081-005470
SPRINGFIELD
ILLINOIS
STATE OF ILLINOIS

Expires 11/30/2020

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

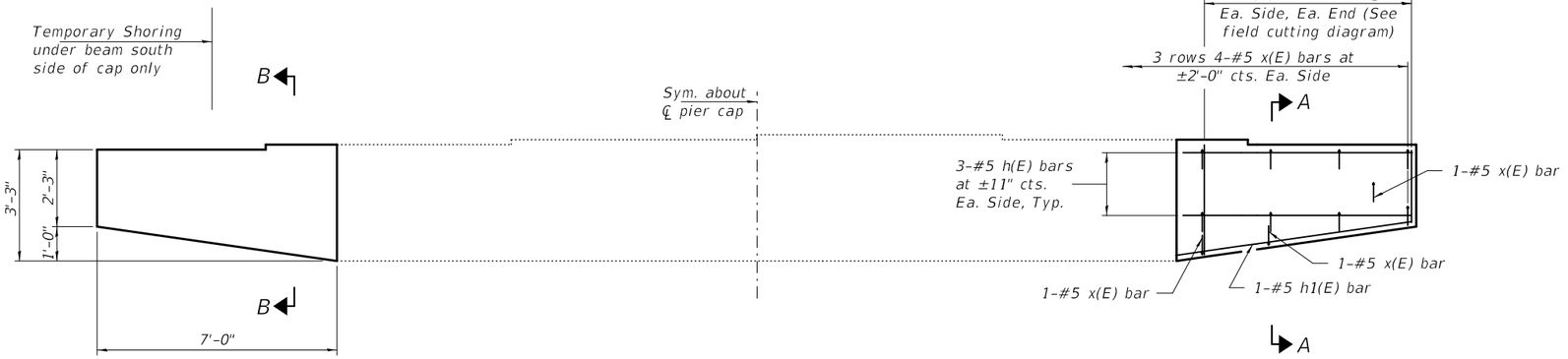
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	1.1
Reinforcment Bars, Epoxy Coated	Pound	230
Concrete Sealer	Sq. Ft.	58
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	85.4
Temporary Shoring and Cribbing	Each	3

DESIGNED - Victor H. Veliz	EXAMINED	DATE - JULY 1, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - Jeffrey S. Burke	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - Venkat Reddy	PASSED	REVISED -	
CHECKED - VHV JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

GENERAL PLAN AND ELEVATION
FAP 318 OVER CHARTER OAK ROAD
SN 072-0138 (N.B.)
SHEET NO. 1 OF 3 SHEETS

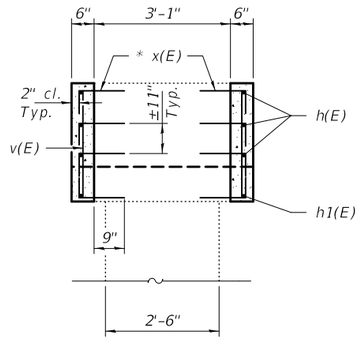
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	9
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		



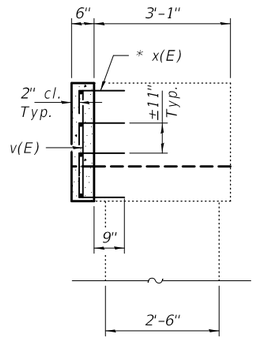
SHOWING DIMENSIONS

SHOWING REINFORCEMENT

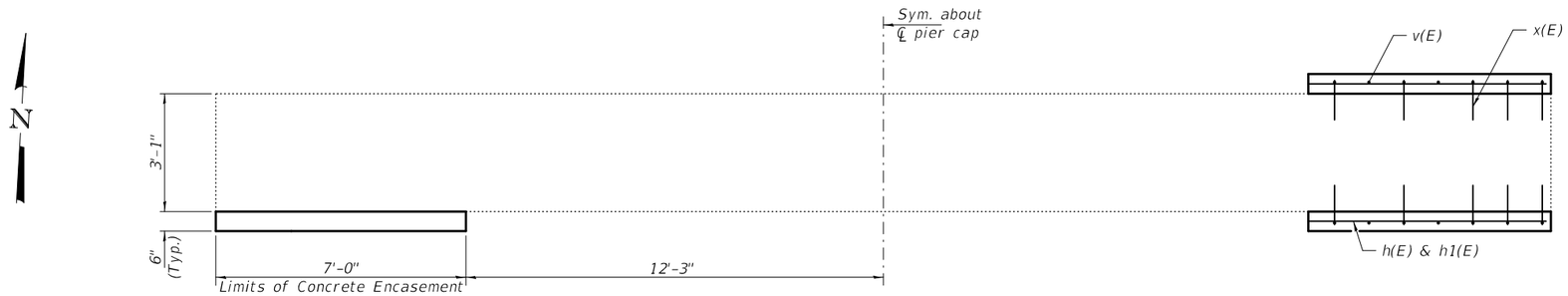
PIER 2 - ELEVATION



SECTION A-A



SECTION B-B



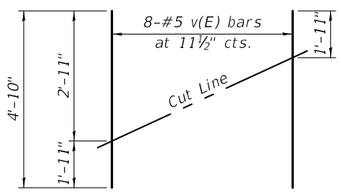
SHOWING DIMENSIONS

SHOWING REINFORCEMENT

PIER 2 - PLAN

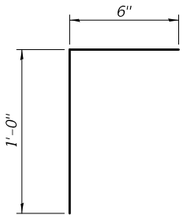
* Epoxy grout x(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.

** Concrete includes encasement shown on this sheet and areas identified for concrete repairs on Pier 2, shown on sheet 3 of 3.



FIELD CUTTING DIAGRAM

Order v(E) full length. Cut as shown and use remainder of bars in opposite end.



BAR x(E)

BEAM REACTIONS TABLE PIERS

		Span 1 & 3	Span 2
$R_{\mathbb{P}}$	(K)	23.6	41.8
$R_{\mathbb{t}}$	(K)	45.2	45.2
Imp.	(K)	13.0	13.0
R (Total)	(K)	81.8	100.0

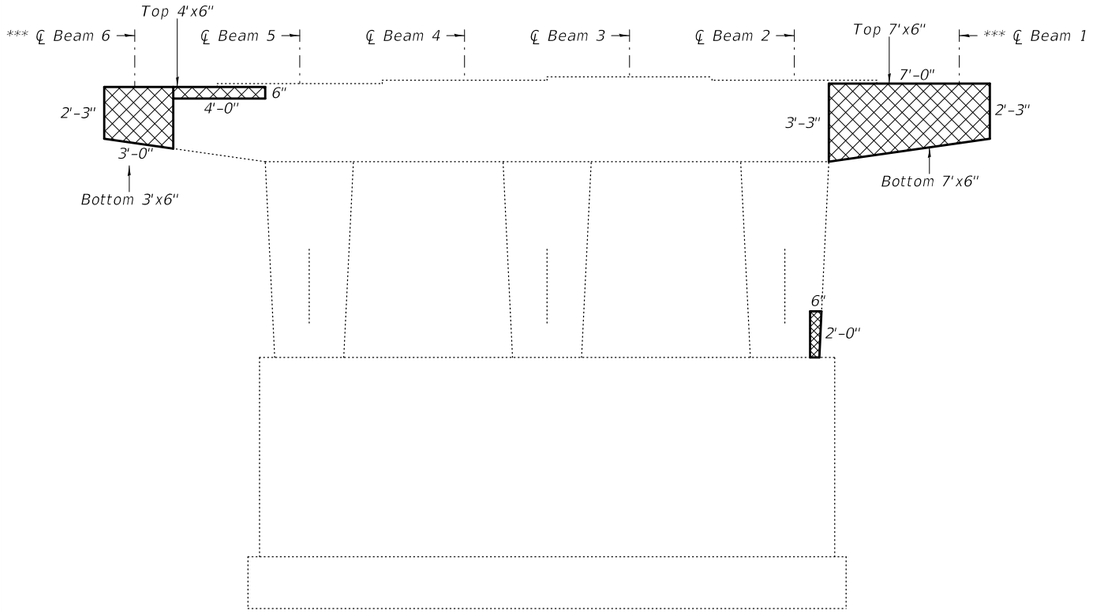
BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h(E)	9	#5	6'-8"	——
	h1(E)	3	#5	6'-9"	——
	v(E)	16	#5	4'-10"	——
	x(E)	45	#5	1'-6"	——
**	Concrete Structures			Cu. Yd.	1.1
	Reinforcement Bars, Epoxy Coated			Pound	230
	Structural Repair of Concrete ≤ 5"			Sq. Ft.	85.4
	Temporary Shoring and Cribbing			Each	4

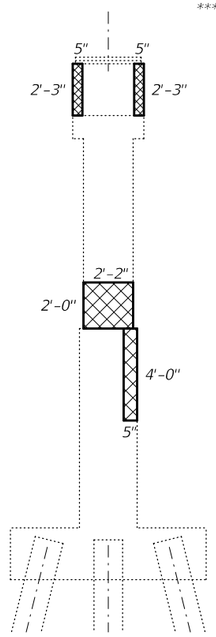
DESIGNED - VHV	EXAMINED	DATE - JULY 1, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - Venkat Reddy	PASSED	REVISED -	
CHECKED - VHV JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

ENCASEMENT DETAILS - PIER 2
SN 072 - 0138
SHEET NO. 2 OF 3 SHEETS

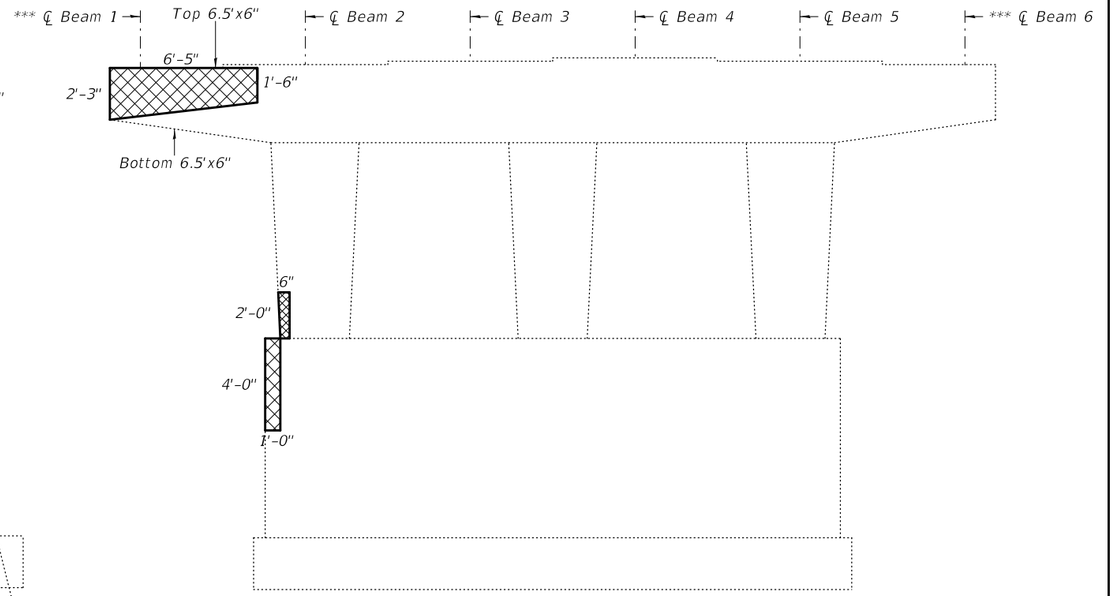
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	10
		CONTRACT NO. 68F61		
		ILLINOIS	FED. AID PROJECT	



PIER 2
(Looking North)

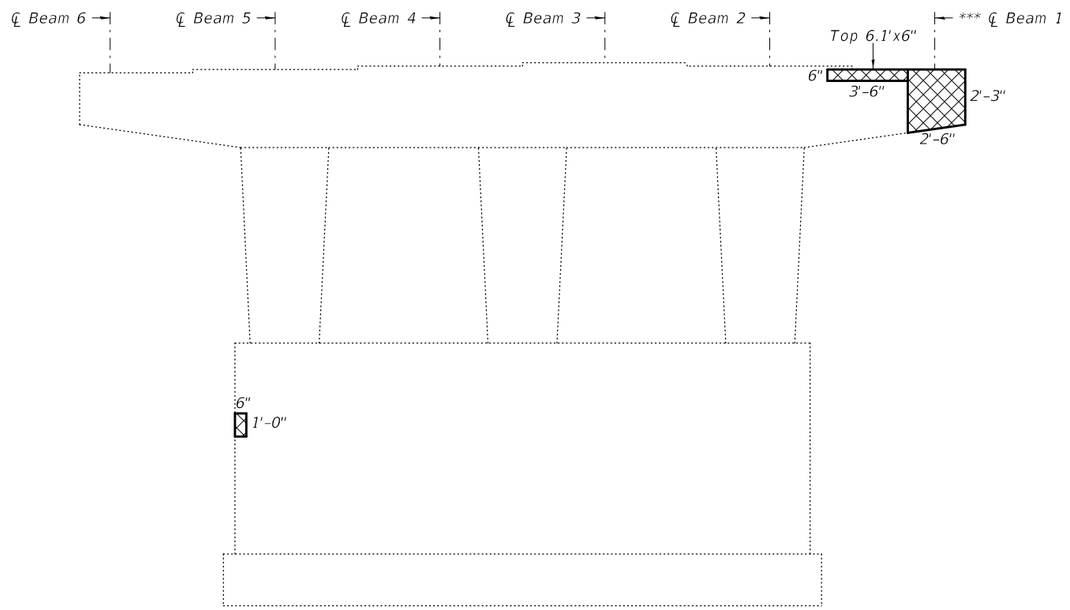


PIER 2
(Looking West)



PIER 2
(Looking South)

*** Location of Temporary Shoring and Cribbing



PIER 1
(Looking North)

Notes:
Cross hatched areas indicate Structural Repair of Concrete ≤ 5".
Concrete in cantilevers, in areas to be encased, shall be poured monolithically and paid for as Concrete Structures.

DESIGNED - VHV	EXAMINED	DATE - JULY 1, 2020	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - *Venkat Reddy*	PASSED	REVISED -	
CHECKED - VHV JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

PIER REPAIR DETAILS
SN 072 - 0138
SHEET NO. 3 OF 3 SHEETS

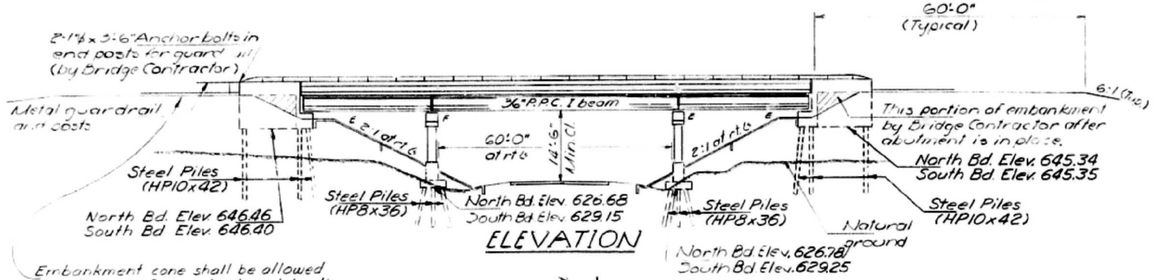
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	10A
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		

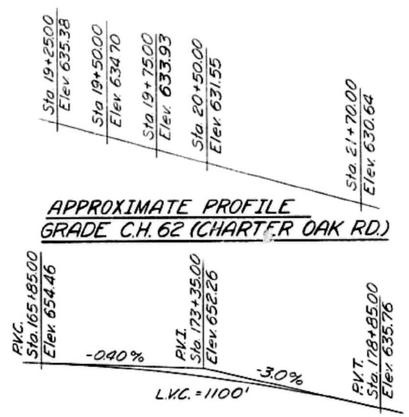
Bench Mark - B.M.#3 Top of R.O.W marker
348.33' Lt. Sta 169+39.99 Elev. 625.67
No existing structure

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE. 318 SHEET 5	72-7HB-3	PEORIA	25	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

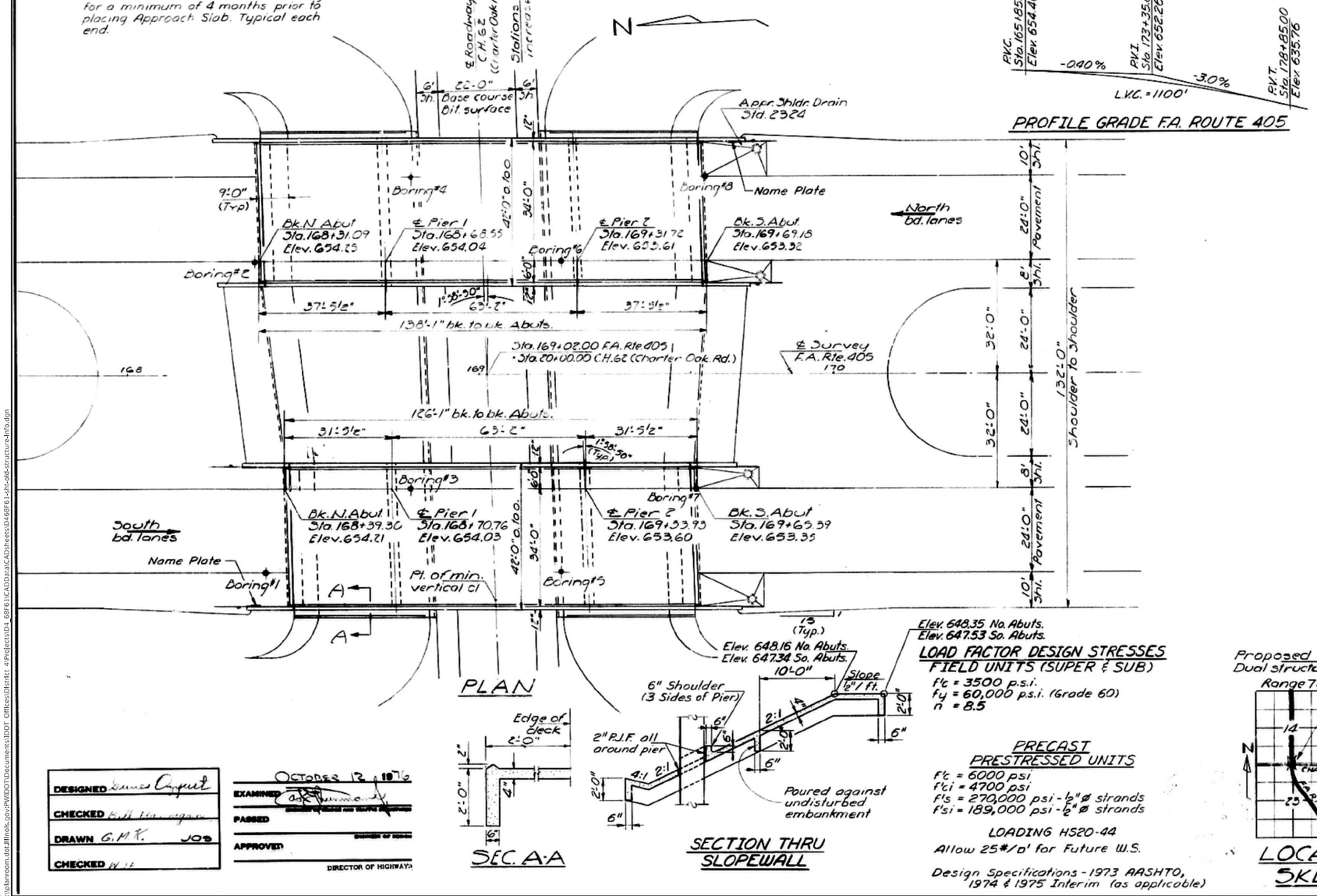
SHEET NO. 1
22 SHEETS





GENERAL NOTES

See Special Provisions for Boring Data.
All structural steel shall be shop painted with two coats of basic lead silico chromate paint.
Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58 # per 100 sq. ft.
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.
Protective coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
The Contractor shall drive 2 Steel Test Piles in a permanent location; one each at Pier 1 No. Bd Lane and Pier 2 So. Bd Lane as directed by the Engineer before ordering the remainder of piles.
Reinforcement Bars shall conform to the requirements of AASHTO M31 or M53 Grade 60.



Elev. 648.35 No. Abuts.
Elev. 647.53 So. Abuts.
Elev. 648.16 No. Abuts.
Elev. 647.34 So. Abuts.

LOAD FACTOR DESIGN STRESSES
FIELD UNITS (SUPER & SUB)
f'c = 3500 p.s.i.
fy = 60,000 p.s.i. (Grade 60)
n = 8.5

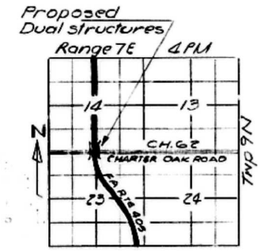
PRECAST PRESTRESSED UNITS
f'c = 6000 psi
f'ci = 4700 psi
f's = 270,000 psi - ½"ø strands
f'si = 189,000 psi - ½"ø strands

LOADING HS20-44
Allow 25#/p' for Future W.S.

Design Specifications - 1973 AASHTO, 1974 & 1975 Interim (as applicable)

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bituminous Concrete Surface Course, Class I	Tons	61		61
Waterproofing Membrane System	Sq. Yds.	1109		1109
Structure Excavation	Cu. Yds.		156	156
Protective Coat	Sq. Yds.	210		210
Class X Concrete	Cu. Yds.	376.1	409.1	785.2
PPC. I-Beams (36")	Lin. Ft.	1534		1534
Reinforcement Bars	Lbs.	85,340	40,810	126,150
Steel Piles (HP8x36)	Lin. Ft.		1755	1755
Steel Piles (HP10x42)	Lin. Ft.		1611	1611
Test Piles Steel (HP8x36)	Each		2	2
Name Plates	Each	2		2
Slopewall (14")	Sq. Yds.		1471	1471
Preformed Joint Sealer (2½")	Lin. Ft.	168		168
Aluminum Railing	Lin. Ft.	600		600
Structural Steel	Lbs.	6220		6220



LOCATION SKETCH

STATION 169+02.00
BUILT 19 BY
STATE OF ILLINOIS
F.A. RT. 405 SEC. 72-7HB-3
F.A. PROJ. EBF-405-1(10)
LOADING HS20

NAME PLATE
(See Std 2113)

PROJECT EBF-405-1(10)
GENERAL PLAN AND ELEVATION
F.A. RTE. 405 OVER C.H. 62 (CHARTER OAK ROAD)
F.A. ROUTE 405
SECTION 72-7HB-3
PEORIA COUNTY
STATION 169+02.00

DESIGNED	James Oquist		
CHECKED	Bill Hannegan		
DRAWN	G.M.K. JOS		
CHECKED	M.V.		

EXAMINED: October 13, 19 76
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:100	CHECKED -	REVISED -
PLOT DATE = 5/14/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 1 OF 15 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	11
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		

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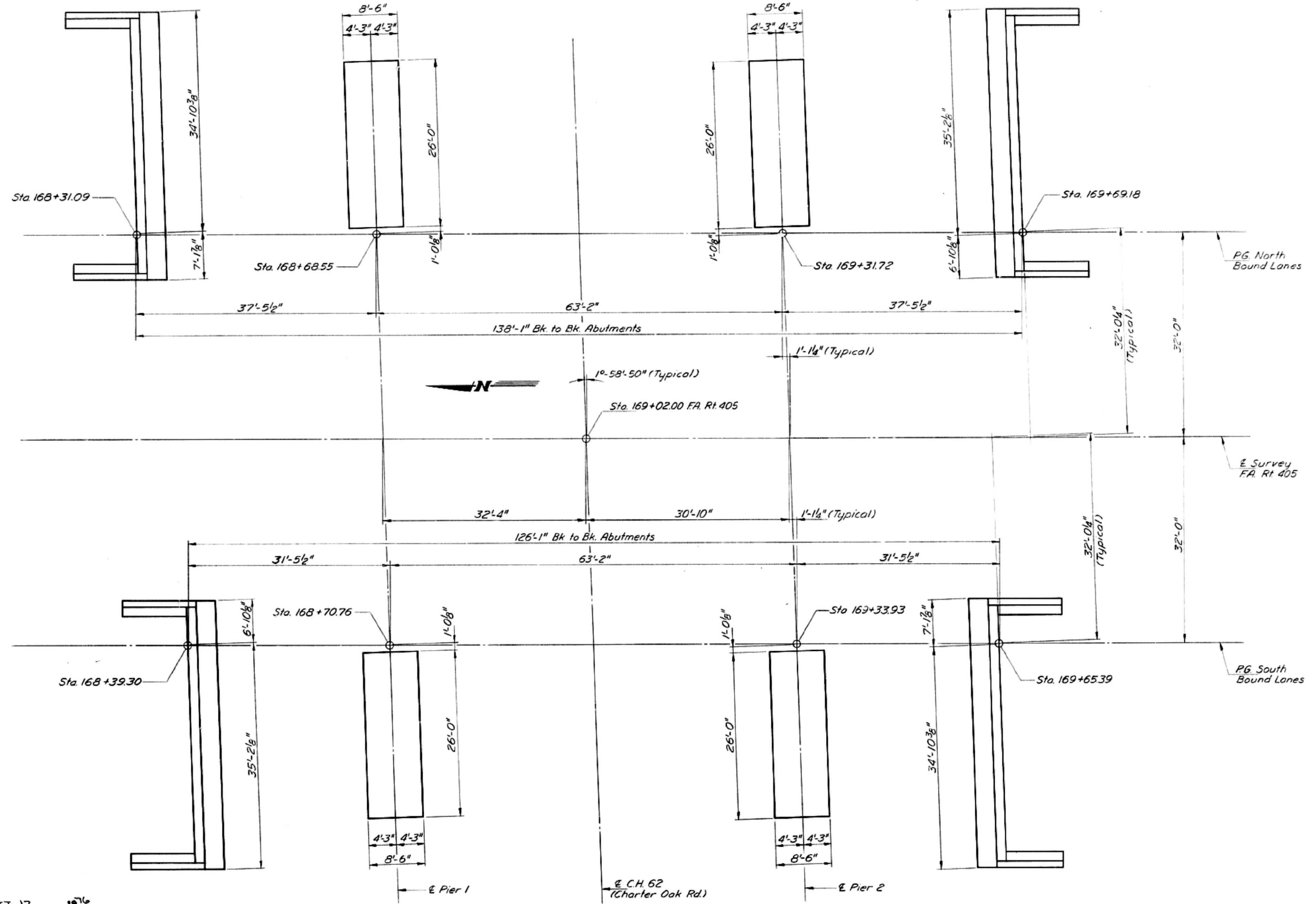
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 2
22 SHEETS



DESIGNED Lunes Ozyurt
CHECKED B. H. ...
DRAWN G. M. Ritchie
CHECKED W. I. F.

EXAMINED Oct. 12 1976
ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
DIRECTOR OF HIGHWAYS

FOOTING LAYOUT
F.A. RT. 405 – SEC. 72-7HB-3
PEORIA COUNTY
STA. 169+02.00

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USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:100	CHECKED -	REVISED -
PLOT DATE = 5/14/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 2 OF 15 SHEETS | STA. | TO STA.

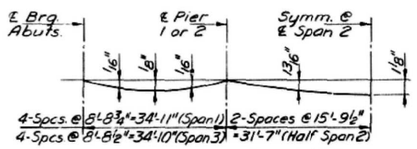
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	12

CONTRACT NO. 68F61
ILLINOIS | FED. AID PROJECT

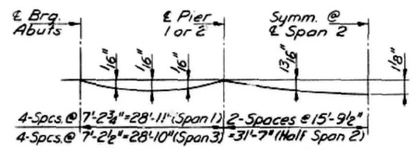
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 318 Br-Bus 4 P.N. 405	72-7HB-3	PEORIA	25	6
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

SHEET NO. 3
22 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



NORTH BOUND LANES

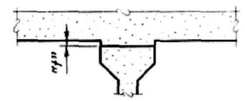


SOUTH BOUND LANES

DEAD LOAD DEFLECTION DIAGRAM

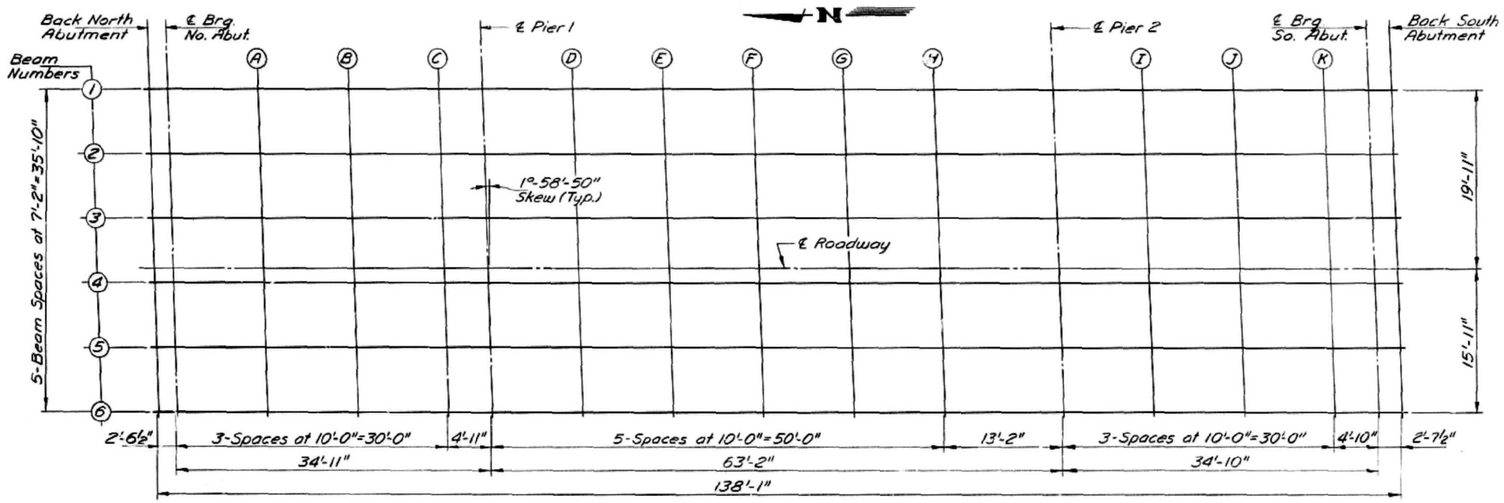
(Includes weight of concrete & initial Class I only)

NOTE: The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflection shown on sheets #4 & #5.

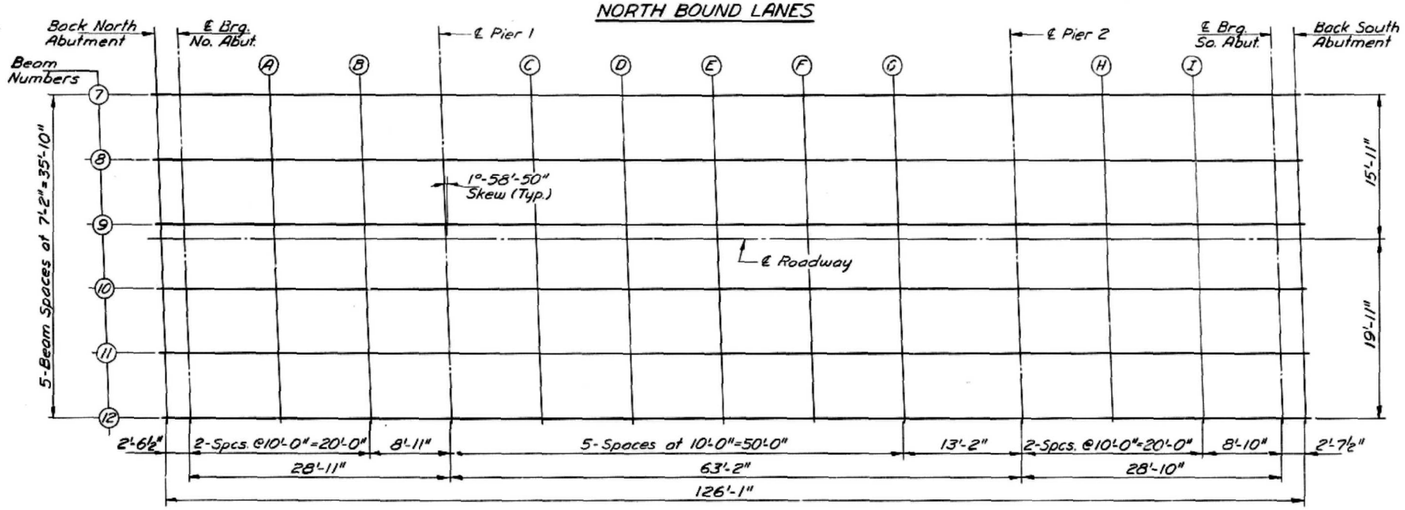


FILLET HEIGHTS

To determine "t": After all beams are in place, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet #4 and #5, minus the slab thickness, equals the fillet heights "t" above the top of the flange of the beams.



NORTH BOUND LANES



SOUTH BOUND LANES

NOTE: Work this sheet with sheets #4 and #5.

DESIGNED	James Bryant
CHECKED	Bill Hannigan
DRAWN	G.M.R, Tech. C
CHECKED	W.H.

EXAMINED Oct. 12 1976
PASSED
APPROVED

ELEVATION LOCATION PLANS
F.A. RT. 405 – SEC. 72-7HB-3
PEORIA COUNTY
STR. 169+02.00

USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED -	REVISED -	
PLOT DATE = 5/14/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 3 OF 15 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	13
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
FA 405	72-7HB-3	Peoria	25	7
FED ROAD DIST NO 7	ILLINOIS	FED AID PROJECT		

SHEET NO. 4 OF 22 SHEETS

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. No. Abut.	16829.986	-19.917	653.966	653.966
℄ Brg. No. Abut	16832.528	-19.917	653.953	653.953
A	16842.528	-19.917	653.901	653.907
B	16852.528	-19.917	653.846	653.854
C	16862.528	-19.917	653.789	653.792
℄ Pier 1	16867.444	-19.917	653.760	653.760
D	16877.444	-19.917	653.699	653.741
E	16887.444	-19.917	653.636	653.709
F	16897.444	-19.917	653.571	653.660
G	16907.444	-19.917	653.503	653.581
H	16917.444	-19.917	653.433	653.487
℄ Pier 2	16930.611	-19.917	653.337	653.337
I	16940.611	-19.917	653.261	653.268
J	16950.611	-19.917	653.183	653.191
K	16960.611	-19.917	653.103	653.106
℄ Brg. So. Abut.	16965.444	-19.917	653.063	653.063
Bk. So. Abut.	16968.069	-19.917	653.041	653.041

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. No. Abut.	16830.482	-5.583	654.229	654.228
℄ Brg. No. Abut.	16833.024	-5.583	654.215	654.215
A	16843.024	-5.583	654.163	654.169
B	16853.024	-5.583	654.108	654.116
C	16863.024	-5.583	654.051	654.054
℄ Pier 1	16867.940	-5.583	654.022	654.022
D	16877.940	-5.583	653.961	654.002
E	16887.940	-5.583	653.898	653.970
F	16897.940	-5.583	653.832	653.922
G	16907.940	-5.583	653.764	653.842
H	16917.940	-5.583	653.694	653.749
℄ Pier 2	16931.107	-5.583	653.598	653.598
I	16941.107	-5.583	653.522	653.529
J	16951.107	-5.583	653.444	653.452
K	16961.107	-5.583	653.364	653.367
℄ Brg. So. Abut.	16965.940	-5.583	653.324	653.324
Bk. So. Abut.	16968.565	-5.583	653.302	653.302

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. No. Abut.	16830.978	8.750	654.176	654.176
℄ Brg. NO. Abut.	16833.520	8.750	654.163	654.163
A	16843.520	8.750	654.111	654.117
B	16853.520	8.750	654.056	654.064
C	16863.520	8.750	653.998	654.002
℄ Pier 1	16868.436	8.750	653.969	653.969
D	16878.436	8.750	653.908	653.950
E	16888.436	8.750	653.845	653.918
F	16898.436	8.750	653.779	653.869
G	16908.436	8.750	653.711	653.789
H	16918.436	8.750	653.641	653.696
℄ Pier 2	16931.603	8.750	653.545	653.545
I	16941.603	8.750	653.469	653.475
J	16951.603	8.750	653.391	653.399
K	16961.603	8.750	653.310	653.314
℄ Brg. So Abut.	16966.436	8.750	653.270	653.270
Bk. So. Abut.	16969.061	8.750	653.249	653.249

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. No. Abut.	16830.234	-12.750	654.114	654.114
℄ Brg. No. Abut.	16832.776	-12.750	654.101	654.101
A	16842.776	-12.750	654.048	654.055
B	16852.776	-12.750	653.994	654.001
C	16862.776	-12.750	653.936	653.940
℄ Pier 1	16867.692	-12.750	653.907	653.907
D	16877.692	-12.750	653.847	653.888
E	16887.692	-12.750	653.783	653.856
F	16897.692	-12.750	653.718	653.807
G	16907.692	-12.750	653.650	653.728
H	16917.692	-12.750	653.580	653.635
℄ Pier 2	16930.859	-12.750	653.484	653.484
I	16940.859	-12.750	653.408	653.415
J	16950.859	-12.750	653.330	653.338
K	16960.859	-12.750	653.250	653.253
℄ Brg So. Abut.	16965.692	-12.750	653.210	653.210
Bk. So. Abut.	16968.317	-12.750	653.188	653.188

℄ ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. No. Abut.	16830.675	0.000	654.315	654.315
℄ Brg. No. Abut.	16833.217	0.000	654.302	654.302
A	16843.217	0.000	654.249	654.256
B	16853.217	0.000	654.194	654.202
C	16863.217	0.000	654.137	654.140
℄ Pier 1	16868.133	0.000	654.108	654.108
D	16878.133	0.000	654.047	654.088
E	16888.133	0.000	653.984	654.056
F	16898.133	0.000	653.918	654.008
G	16908.133	0.000	653.850	653.928
H	16918.133	0.000	653.780	653.835
℄ Pier 2	16931.300	0.000	653.684	653.684
I	16941.300	0.000	653.608	653.615
J	16951.300	0.000	653.530	653.538
K	16961.300	0.000	653.449	653.453
℄ Brg. So. Abut.	16966.133	0.000	653.410	653.410
Bk. So. Abut.	16968.758	0.000	653.388	653.388

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. No. Abut.	16831.225	15.917	654.043	654.043
℄ Brg. No. Abut	16833.767	15.917	654.030	654.030
A	16843.767	15.917	653.977	653.984
B	16853.767	15.917	653.922	653.930
C	16863.767	15.917	653.865	653.868
℄ Pier 1	16868.683	15.917	653.836	653.836
D	16878.683	15.917	653.775	653.816
E	16888.683	15.917	653.711	653.784
F	16898.683	15.917	653.646	653.735
G	16908.683	15.917	653.578	653.655
H	16918.683	15.917	653.507	653.562
℄ Pier 2	16931.850	15.917	653.411	653.411
I	16941.850	15.917	653.335	653.341
J	16951.850	15.917	653.257	653.264
K	16961.850	15.917	653.176	653.179
℄ Brg. So. Abut.	16966.683	15.917	653.136	653.136
Bk. So. Abut.	16969.308	15.917	653.114	653.114

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. No. Abut.	16830.730	1.583	654.290	654.290
℄ Brg. No. Abut.	16833.272	1.583	654.277	654.277
A	16843.272	1.583	654.224	654.230
B	16853.272	1.583	654.169	654.177
C	16863.272	1.583	654.112	654.115
℄ Pier 1	16868.188	1.583	654.083	654.083
D	16878.188	1.583	654.022	654.063
E	16888.188	1.583	653.959	654.031
F	16898.188	1.583	653.893	653.982
G	16908.188	1.583	653.825	653.903
H	16918.188	1.583	653.755	653.810
℄ Pier 2	16931.355	1.583	653.659	653.659
I	16941.355	1.583	653.583	653.589
J	16951.355	1.583	653.505	653.513
K	16961.355	1.583	653.424	653.428
℄ Brg. So. Abut.	16966.188	1.583	653.385	653.385
Bk. So. Abut.	16968.813	1.583	653.363	653.363

DESIGNED Dennis Ompert
CHECKED
DRAWN
CHECKED

EXAMINED Oct 12 19
ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
DIRECTOR OF HIGHWAYS

TOP OF SLAB ELEVATIONS
NORTH BOUND LANES
F.A. RT. 405 – SEC. 72-7HB-3
PEORIA COUNTY
STA. 169+02.00

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:100	CHECKED -	REVISED -
PLOT DATE = 5/14/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 4 OF 15 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	14

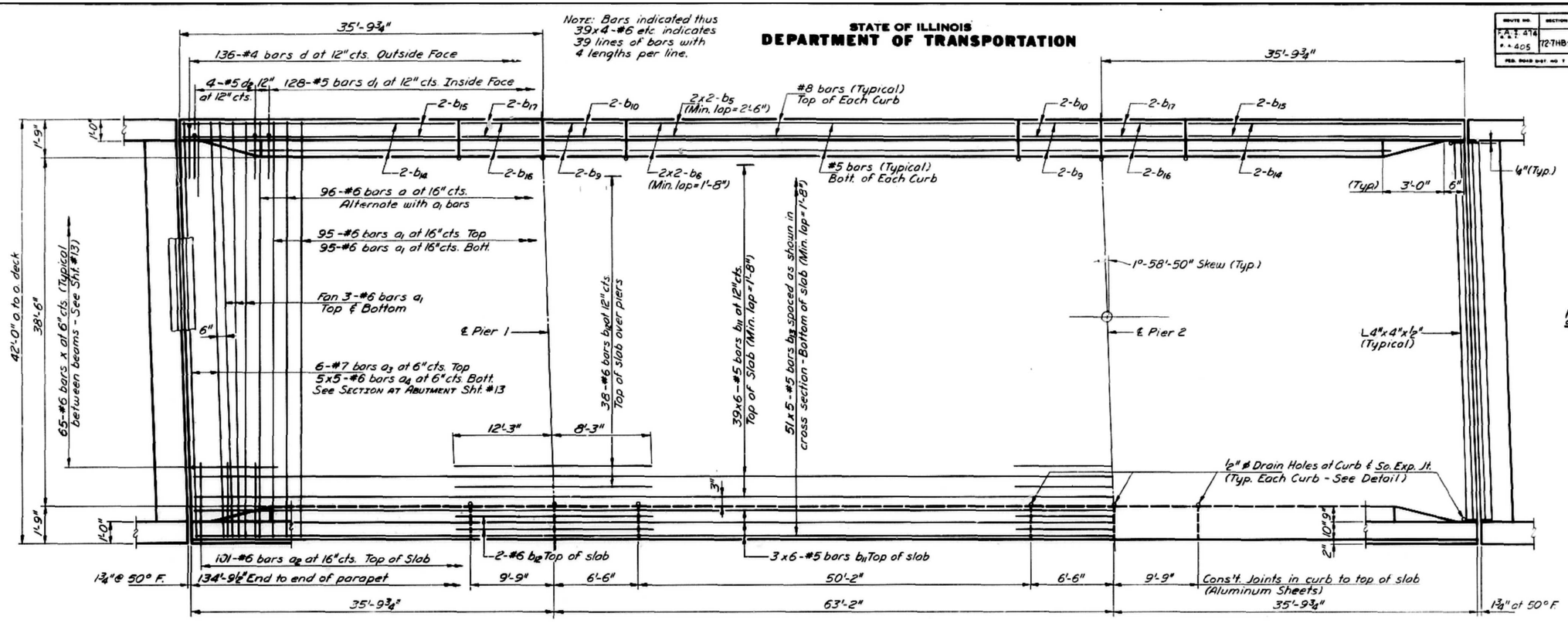
CONTRACT NO. 68F61
ILLINOIS | FED. AID PROJECT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 414 & F.A.P. 405	72-7HB-3	Peoria	25	9
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 6
22 SHEETS

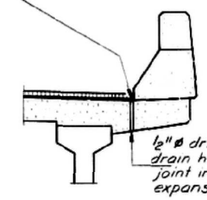
Note: Bars indicated thus 39x4-#6 etc indicates 39 lines of bars with 4 lengths per line.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN

Do not provide opening in Waterproofing Membrane at aluminum sheeted curb joints. Do provide opening through membrane at So. expansion joint.



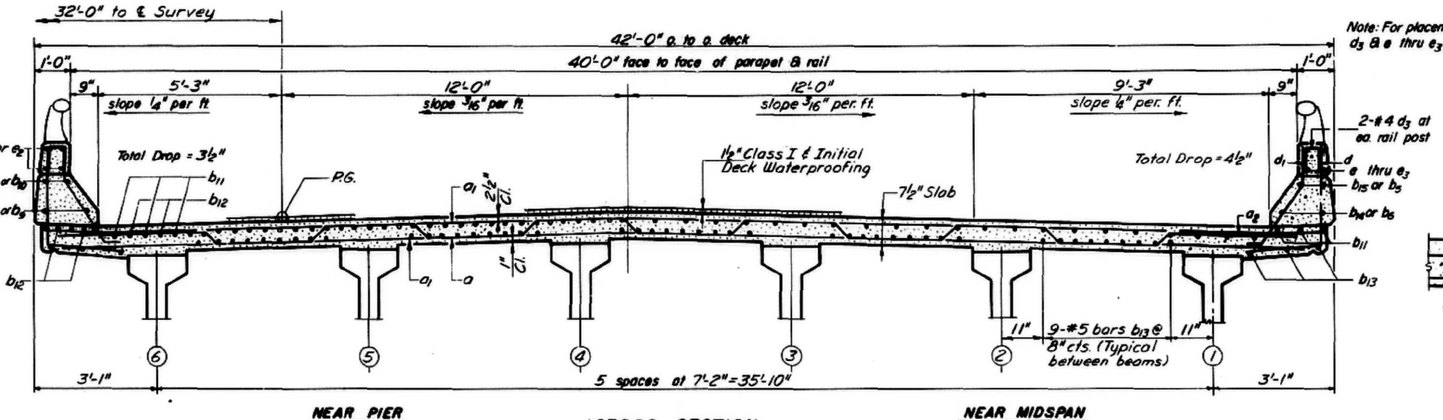
1/2" ø DRAIN HOLE DETAIL

BILL OF MATERIAL

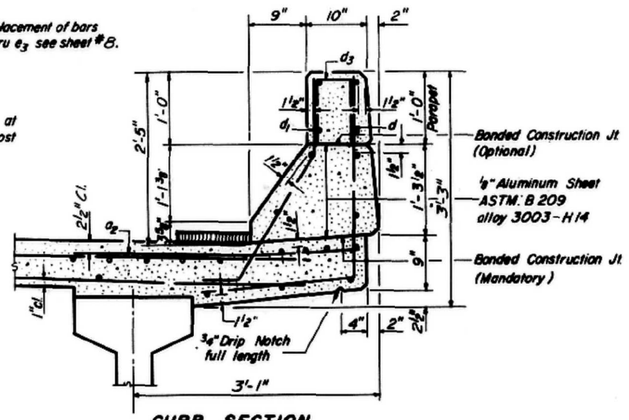
Bar	No.	Size	Length	Shape
a	96	#6	41'-7"	
a_1	202	#6	40'-0"	
a_2	202	#6	4'-0"	
a_3	12	#7	41'-5"	
a_4	50	#6	6'-5"	
b_5	8	#8	26'-6"	
b_6	8	#5	26'-3"	
b_9	8	#5	6'-3"	
b_{10}	8	#8	6'-3"	
b_{11}	270	#5	24'-0"	
b_{12}	84	#6	20'-6"	
b_{13}	255	#5	28'-3"	
b_{14}	8	#5	25'-9"	
b_{15}	8	#8	25'-9"	
b_{16}	8	#5	9'-6"	
b_{17}	8	#8	9'-6"	
d	272	#4	4'-9"	⌟
d_1	256	#5	3'-7"	⌟
d_2	16	#5	4'-4"	⌟
m	40	#4	6'-5"	
m_1	20	#6	5'-5"	
s_{15}	50	#4	9'-4"	⊔
x	130	#6	8'-0"	⊏
Reinforcement Bars			Lbs.	43,820
Class X Concrete			Cu. Yds.	182.0

Parapet Reinforcement and Class X Concrete are billed on sheet #8.

For placement and details of bars m, m_1 and s_{15} see sheet #13.



NEAR PIER — CROSS SECTION LOOKING NORTH — NEAR MIDSPAN

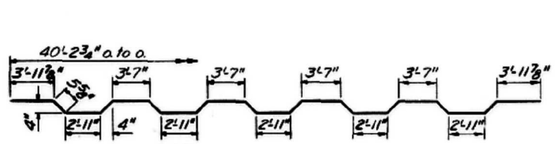


CURB SECTION

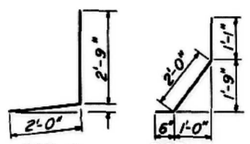
Cost of aluminum sheets incidental to Class X Concrete

DESIGNED	James Dysart	
CHECKED	Bill Flanagan	
DRAWN	G.M. Rithic	
CHECKED	W.J.F.	

EXAMINED Oct. 12 1976
PASSED
APPROVED

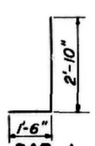


BAR a

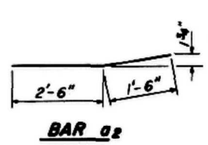


BAR d

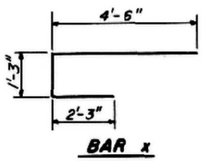
BAR d_1



BAR d_2



BAR a_2



BAR x

PI-1 9-15-72

SUPERSTRUCTURE NORTH BOUND LANES F.A. RT. 405 - SEC. 72-7HB-3 PEORIA COUNTY STA. 169+02.00

USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED -	REVISED -	
PLOT DATE = 5/14/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: SHEET 5 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	15
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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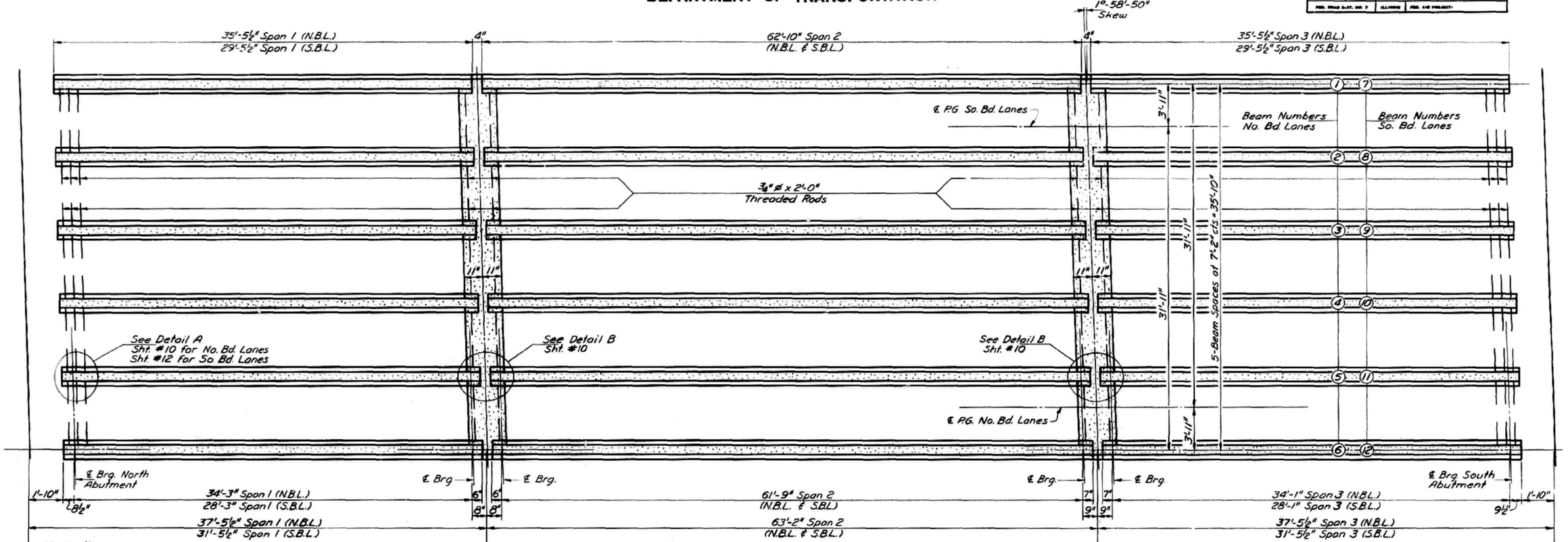
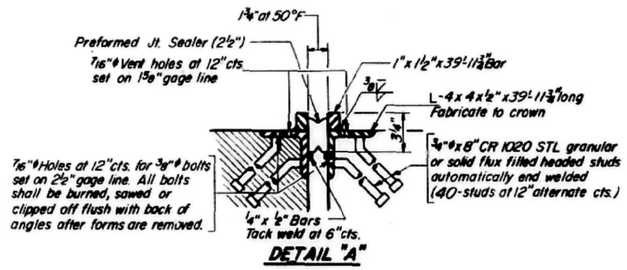
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE. 414 & F.A. 405	72-7HB-3	Peoria	25	12
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 9
22 SHEETS

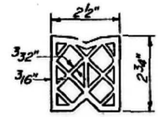
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



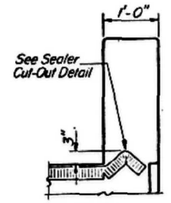
FRAMING PLAN



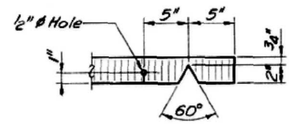
DETAIL "A"



PREFORMED JOINT SEALER (2½")



END OF SEALER TREATMENT



SEALER CUT-OUT DETAIL (2½")

DESIGNED	James Orquet
CHECKED	Bill Flannigan
DRAWN	G.M.R.L.H.S.
CHECKED	W.J.F.

EXAMINED Oct. 12 1976
PASSED
APPROVED

FRAMING PLAN
F.A. RT. 405 - SEC. 72-7HB-3
PEORIA COUNTY
STR. 169+03.00

USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED -	REVISED -	
PLOT DATE = 5/14/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 6 OF 15 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	16
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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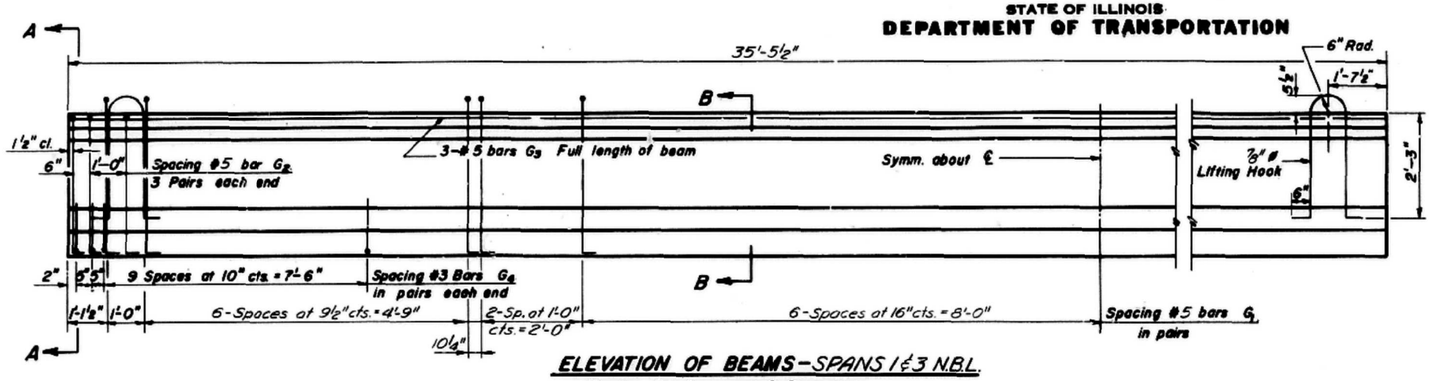
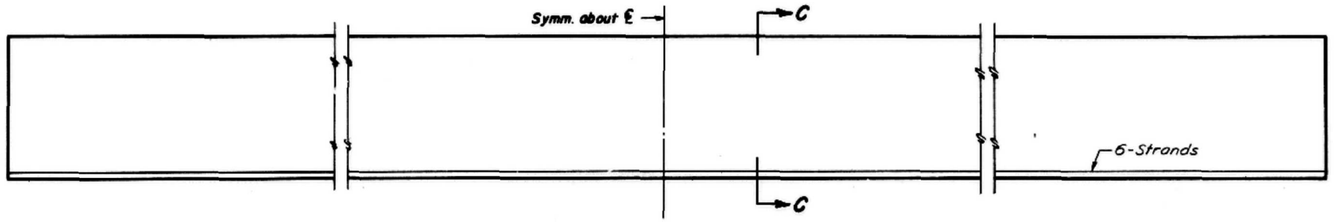
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 318 F.A.S. 2078	72-7HB-3	PEORIA	25	13
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

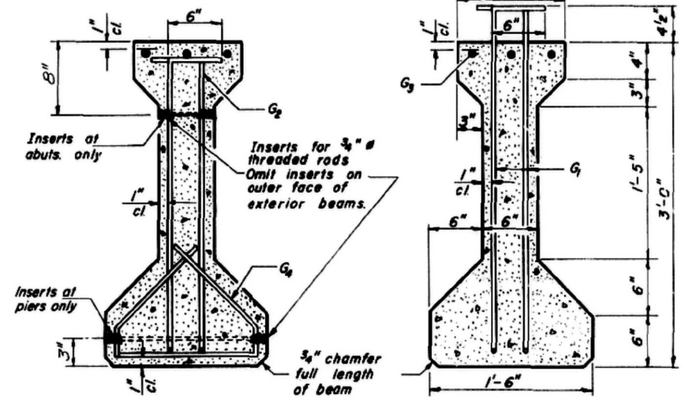
SHEET NO. 10
22 SHEETS



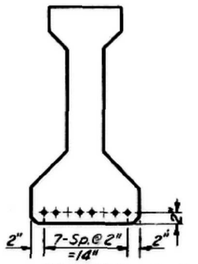
ELEVATION OF BEAMS - SPANS 1 & 3 N.B.L.
Showing Reinforcement & Dimensions



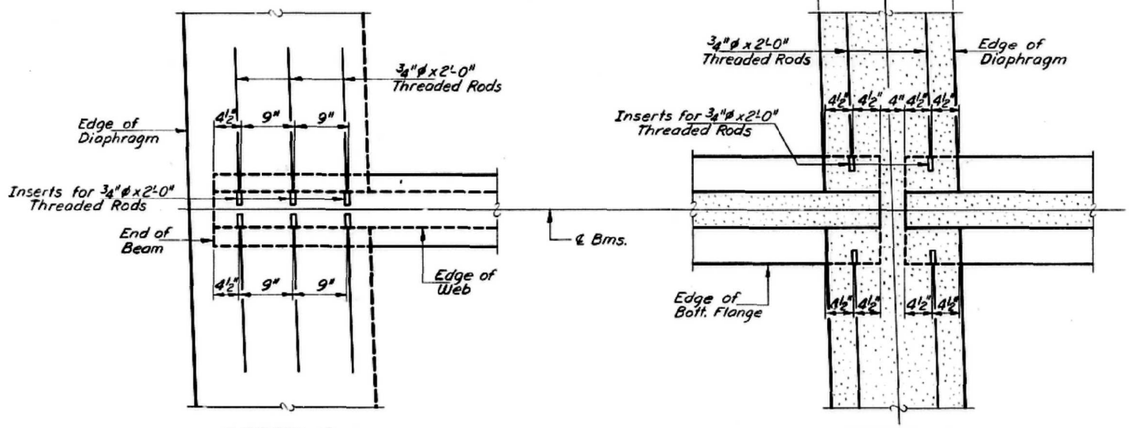
ELEVATION OF BEAMS - SPANS 1 & 3 N.B.L.
Showing Prestressing Steel



SECTION A-A **SECTION B-B**

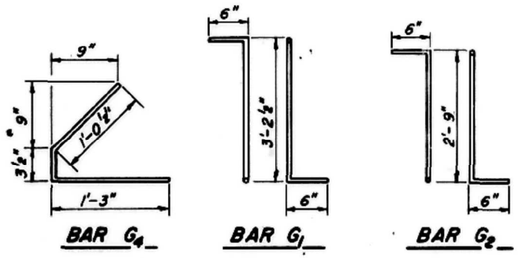


SECTION C-C



DETAIL A
(Typical location of inserts at Abuts.)
(No. Bd. Lanes)

DETAIL B
(Typical location of inserts at Piers)



BAR G_4 **BAR G_1** **BAR G_2**

*BAR LIST

Bar	No.	Size	Length	Shape
G_1	66	#5	4'-2½"	7L
G_2	12	#5	3'-9"	7L
G_3	3	#5	35'-2"	—
G_4	48	#3	2'-7"	L

* For one beam only.

NOTES

All inserts and threaded rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per lineal foot of "Furnishing And Erecting Precast Prestressed Concrete I-Beams, 36 In."

Prestressing Steel shall have a nominal diameter of ½".

Inserts for ¾" ø threaded rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.

Steel for lifting hooks shall be non-deformed bars. f_y = 40,000 psi.

BILL OF MATERIAL

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 36"	Lin. Ft.	426

DESIGNED	James Onyett	
CHECKED	Bill Thompson	
DRAWN	G. M. Ritchie	
CHECKED	[illegible]	

EXAMINED Oct. 12 1972
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

PI-4-36 9-15-72

P.P.C. I-BEAM DETAILS
SPANS 1 & 3 - NO. BD. LANES
F.A. RT. 405 - SEC. 72-7HB-3
PEORIA COUNTY
STA. 169+02.00

USER NAME = $USERS	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED -	REVISED -	
PLOT DATE = 5/14/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 7 OF 15 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	17
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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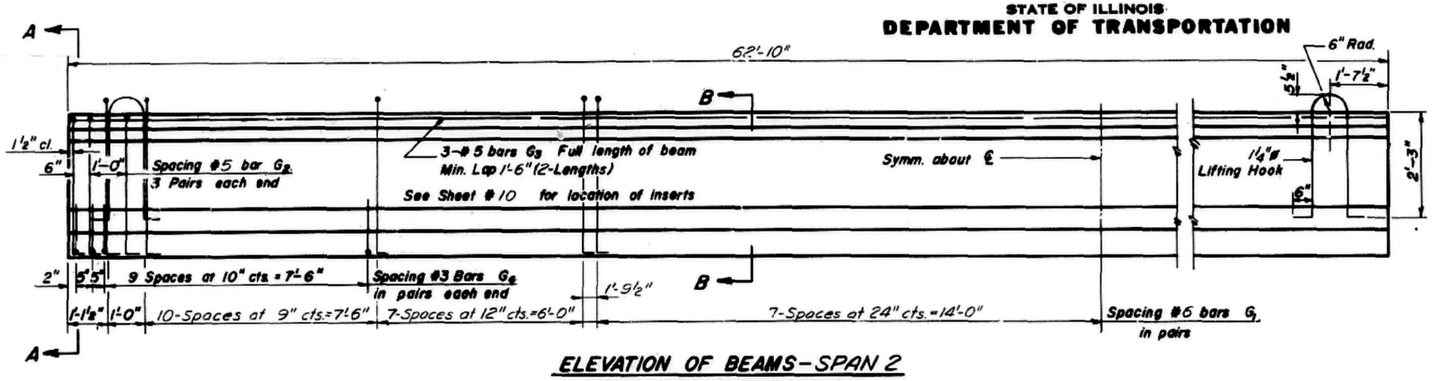
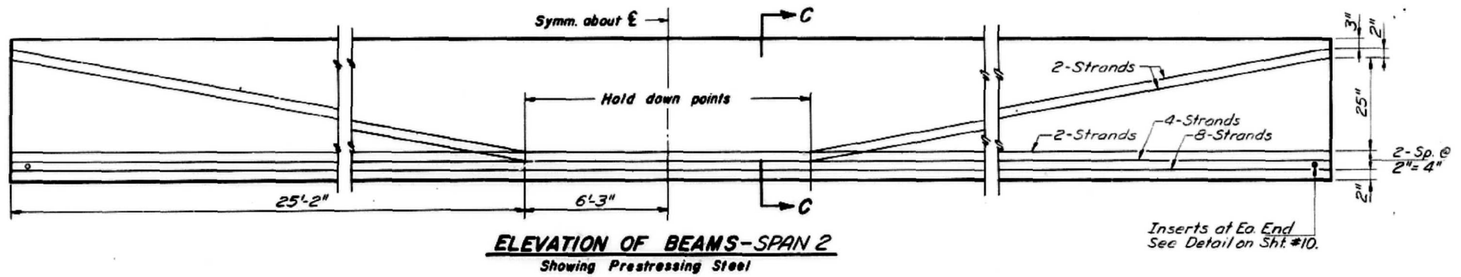
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 318	(72-7HB-3)BRR	PEORIA	25	14
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

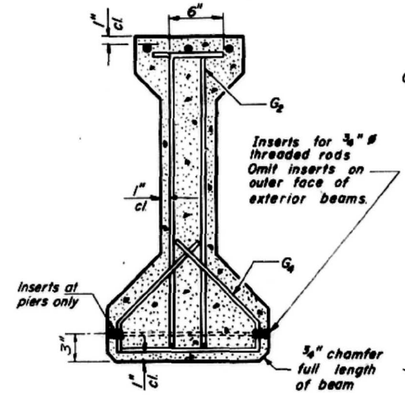
SHEET NO. 11
22 SHEETS



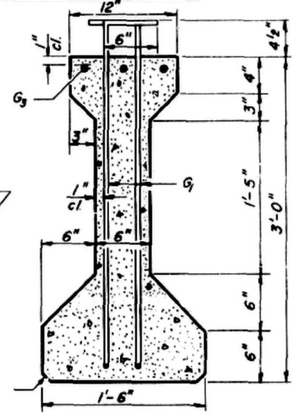
ELEVATION OF BEAMS-SPAN 2
Showing Reinforcement & Dimensions



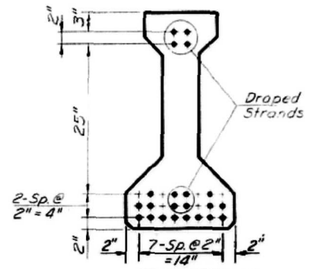
ELEVATION OF BEAMS-SPAN 2
Showing Prestressing Steel



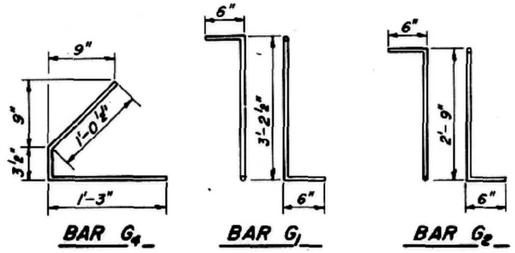
SECTION A-A



SECTION B-B



SECTION C-C



BAR G_4 BAR G_1 BAR G_2

*BAR LIST

Bar	No.	Size	Length	Shape
G_1	106	#6	4'-2½"	7L
G_2	12	#5	3'-9"	7L
G_3	6	#5	32'-1"	—
G_4	48	#3	2'-7"	L

* For one beam only

NOTES

All inserts and threaded rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per lineal foot of "Furnishing And Erecting Precast Prestressed Concrete I-Beams, 36 In."

Prestressing Steel shall have a nominal diameter of ½".

Inserts for ⅜" ø threaded rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.

Steel for lifting hooks shall be non-deformed bars. f_y= 40,000 psi

BILL OF MATERIAL

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 36"	Lin Ft	754

DESIGNED	James Onquit
CHECKED	Bill Pennington
DRAWN	G.F.L.L.C.
CHECKED	W.L.F.

EXAMINED Oct 12 1976
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

P1-4-36 9-15-72

P.P.C. I-BEAM DETAILS
SPAN 2-NO. & SO. BD. LANES
F.A. RT. 405 - SEC. 72-7HB-3
PEORIA COUNTY
STA. 169+02.00

USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED -	REVISED -	
PLOT DATE = 5/14/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 8 OF 15 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	18
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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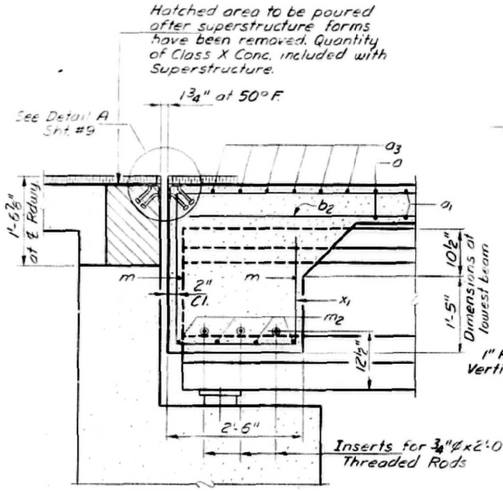
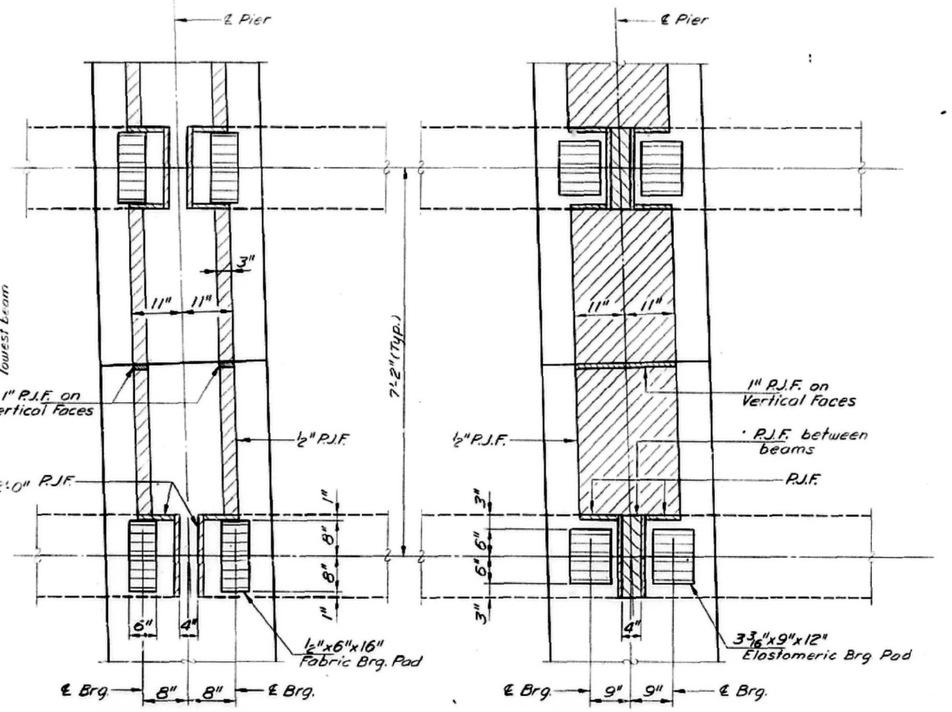
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MINUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D. H. S.				
P. H. S.				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. A.D. PROJECT		

SHEET NO. 2 SHEETS

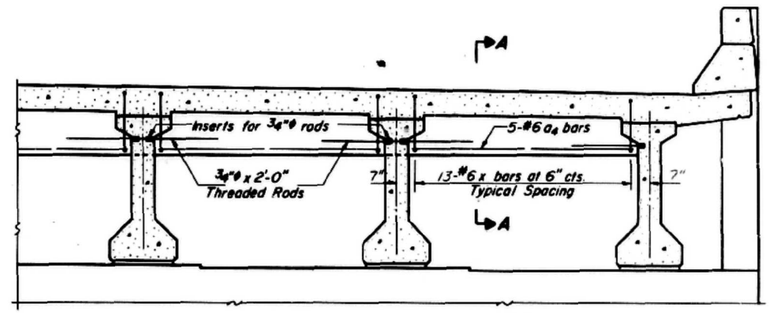


SECTION C-C
AT ABUTMENTS - SO. BD. LANES
(at Rt. L's)

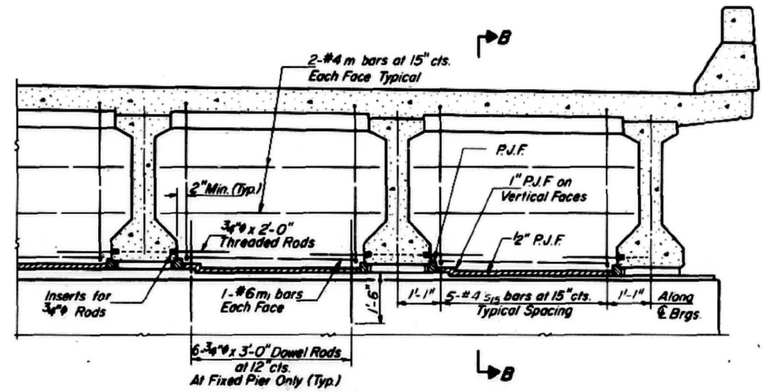


PLAN AT PIER 1
(Fixed)

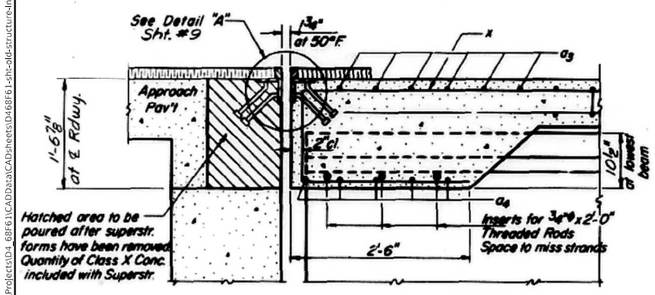
PLAN AT PIER 2
(Expansion)



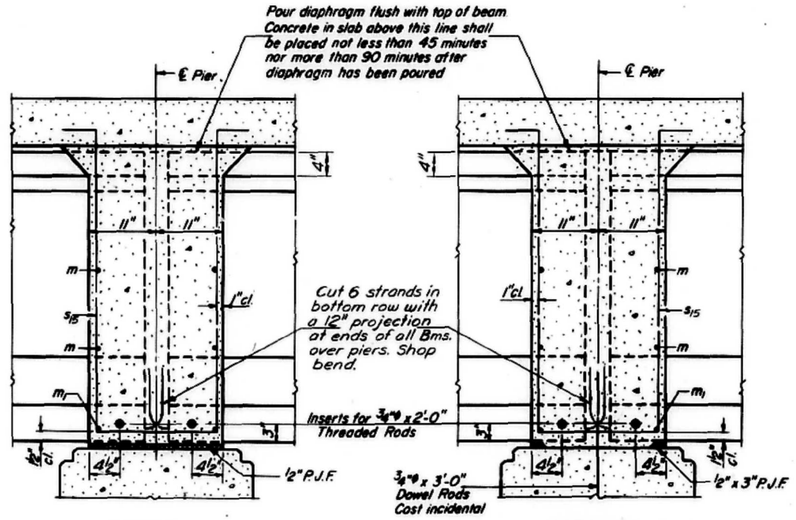
DIAPHRAGM AT ABUTMENTS
(No. Bd. Lanes)



DIAPHRAGM AT PIERS

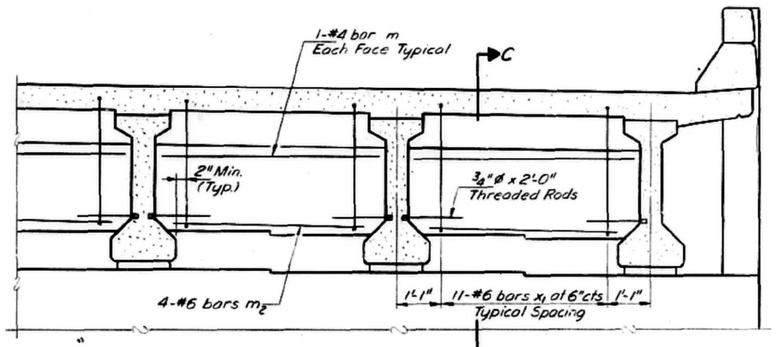


SECTION A-A
AT ABUTMENTS - NO. BD. LANES
(at Rt. L's).

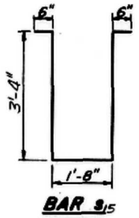


SECTION B-B
AT PIER 2
(Expansion)

SECTION B-B
AT PIER 1
(Fixed)



DIAPHRAGM AT ABUTMENTS
(So. Bd. Lanes)



BAR s15

NOTE: Reinforcement bars shown on this sheet are included in Bill of Material on Sheet #6 & 7.

DESIGNED	James Doyle
CHECKED	S. H. Thompson
DRAWN	C. R. H. G.
CHECKED	M. L.

EXAMINED Oct 12 1976
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

P1-2J 1-15-73

DIAPHRAGM DETAILS
F.A. RT. 405 – SEC. 72-7HB-3
PEORIA COUNTY
STA. 169+02.00

USER NAME = $USERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:100	CHECKED -	REVISED -
PLOT DATE = 5/14/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 9 OF 15 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	19
		CONTRACT NO. 68F61		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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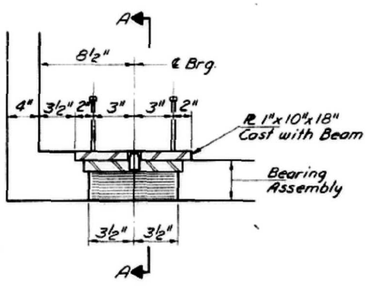
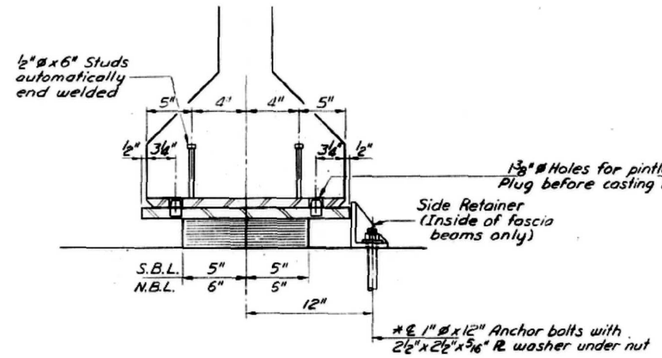
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.P. 318 RTE 405	72-7HB-3	Peoria	25	17
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 14
22 SHEETS

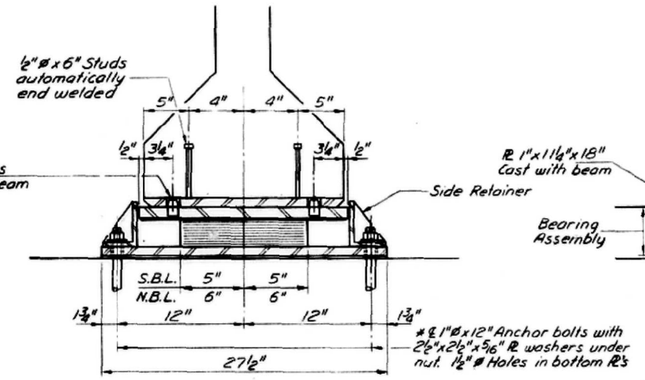
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



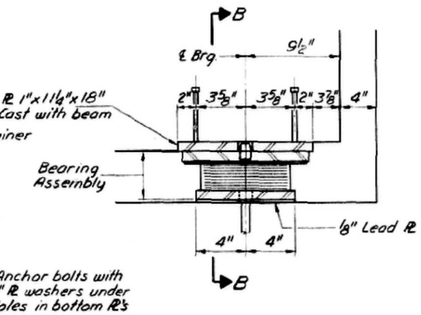
SECTION AT N. ABUTMENTS



SECTION A-A

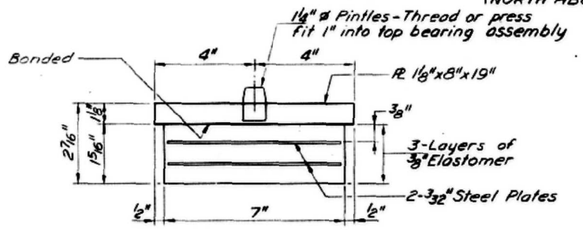


SECTION B-B

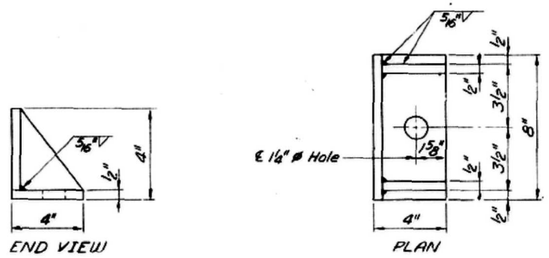


SECTION AT S. ABUTMENTS

TYPE I ELASTOMERIC EXPANSION BEARING
(NORTH ABUTMENTS)

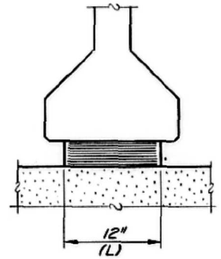


BEARING ASSEMBLY

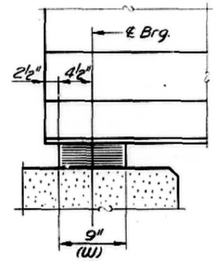


SIDE RETAINER

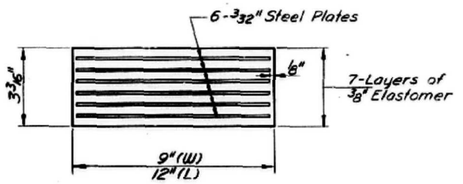
*After beams have been erected 1½" ø holes at expansion bearings shall be drilled & anchor bolts grouted in place.



END VIEW

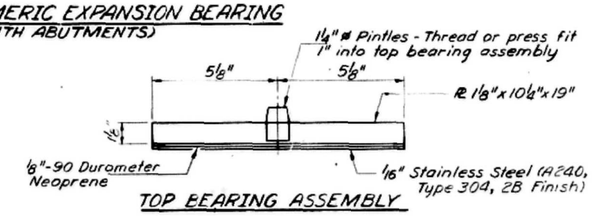


SIDE VIEW

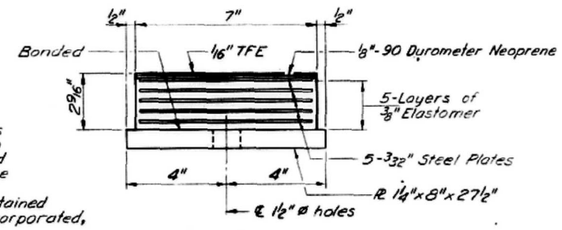


TYPE I ELASTOMERIC EXPANSION BEARING
(PIER 2)

** TYPE II TFE ELASTOMERIC EXPANSION BEARING
(SOUTH ABUTMENTS)

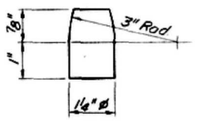


TOP BEARING ASSEMBLY



BOTTOM BEARING ASSEMBLY

** These bridge bearings contain features for which patents have been granted or applied for. Free license for projects governed by these standards may be obtained by applying to Fel-Pro Incorporated, Skokie, Illinois.



PINTLE

NOTE: Cost of Bearing Assemblies is incidental to P.P.C. I-Beams.

DESIGNED	James Onyett
CHECKED	Bill Flannigan
DRAWN	G.M.P.Pitch.s
CHECKED	W J F

EXAMINED Oct. 13 2016
PASSED
APPROVED

BEARING DETAILS
F.A. RT. 405 - SEC. 72-7HB-3
PEORIA COUNTY
STA. 169+02.00

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:100	CHECKED -	REVISED -
PLOT DATE = 5/14/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 10 OF 15 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	20
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

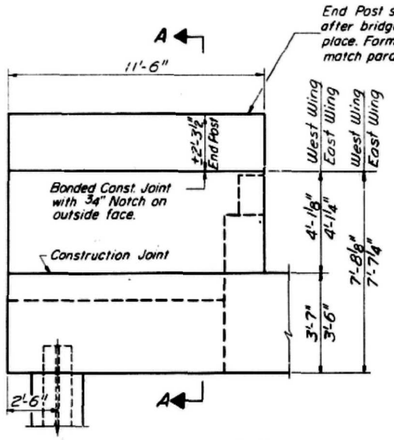
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 474 & 405	(72-7HB-3)	Peoria	25	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

SHEET NO. 15
22 SHEETS

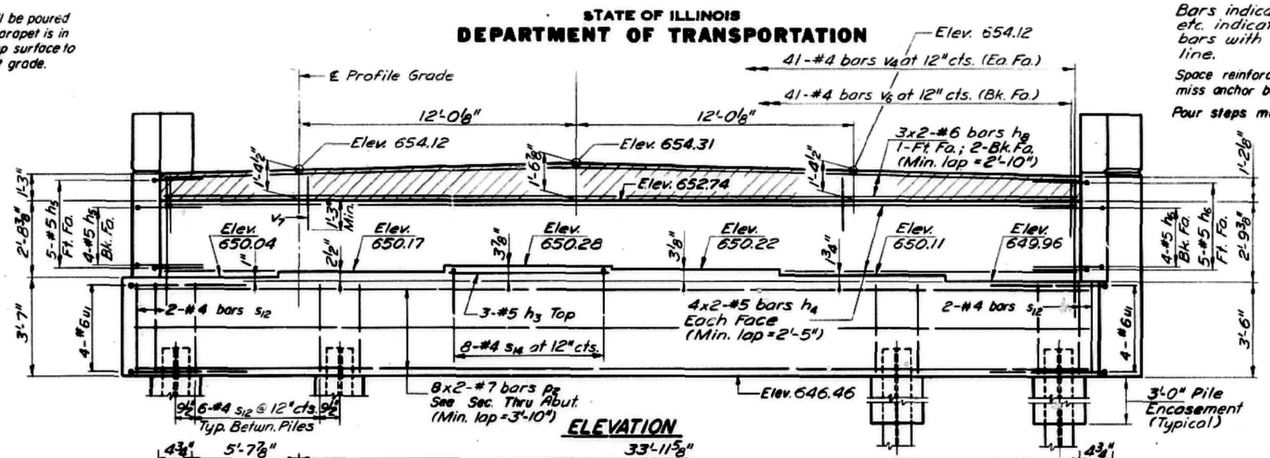
Bars indicated thus 4x2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

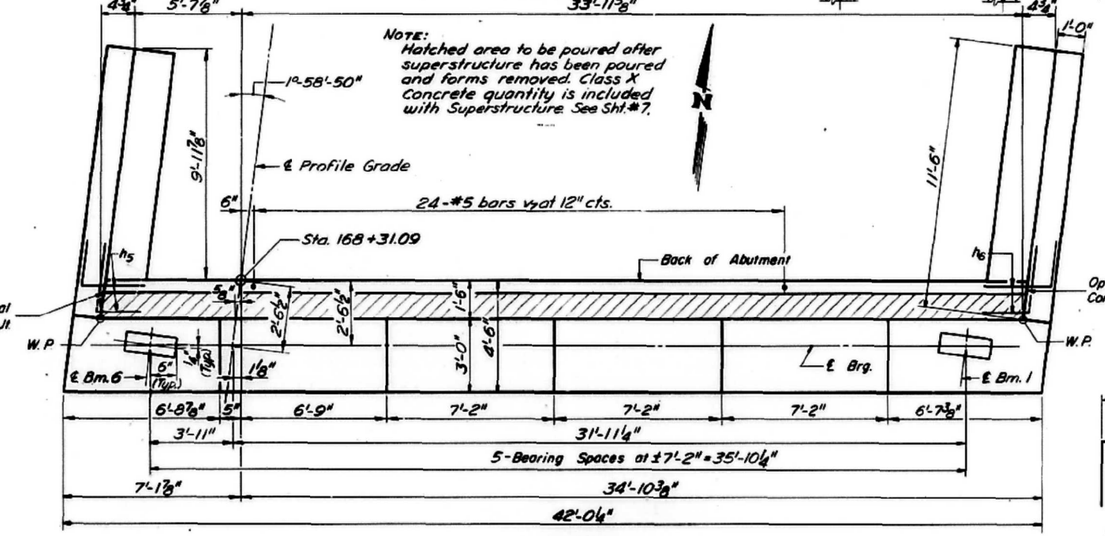
Space reinforcement in cap to miss anchor bolts

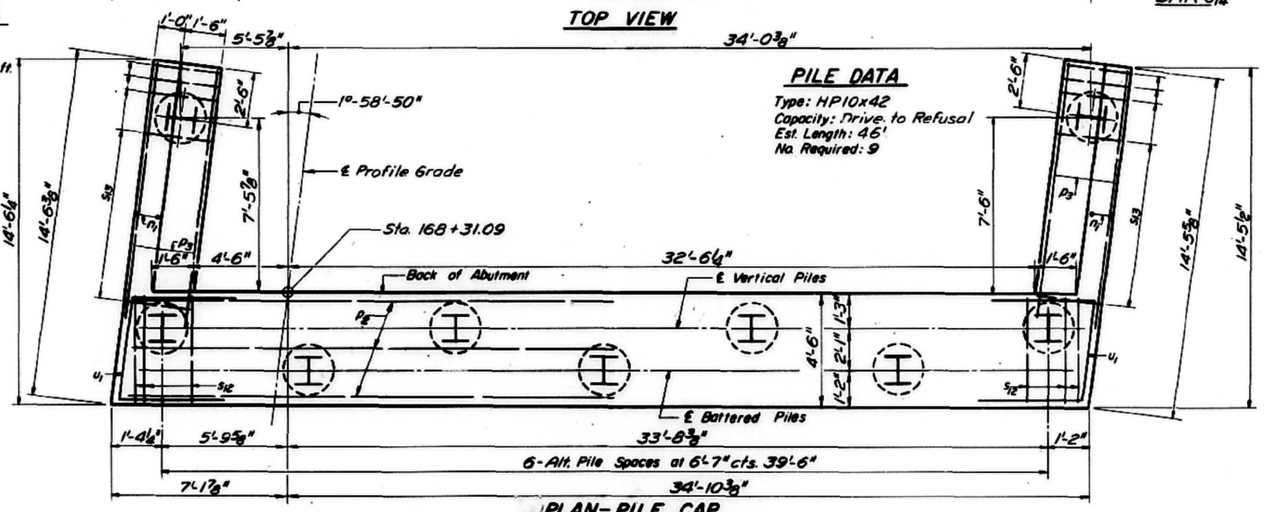
Pour steps monolithically with cap.

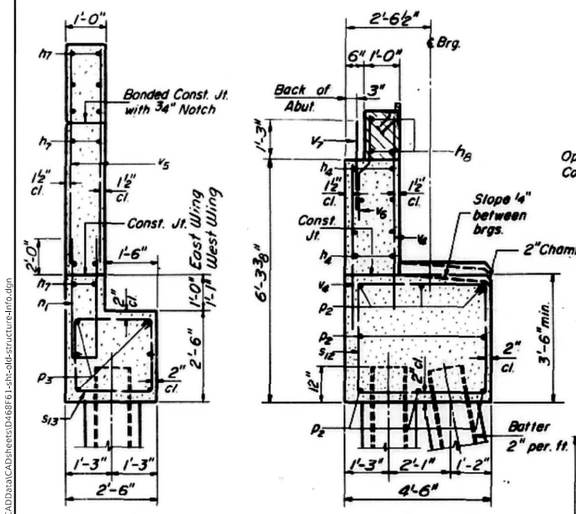


WING WALL ELEVATION

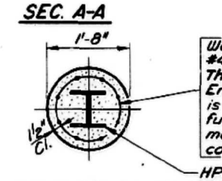








Welded wire fabric 6"x6" mesh #4 wire - weighing 58#/100 sq. ft. The cost of Class X Concrete Encasement and Reinforcement is incidental to the cost of furnishing piles. Forms for encasement may be omitted when soil conditions will permit.

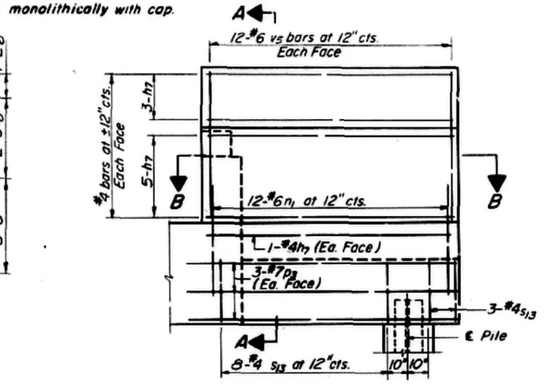


PILE ENCASEMENT DETAIL

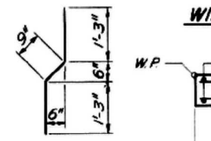
DESIGNED	Lemuel Oggunt
CHECKED	Bill Flannigan
DRAWN	G. M. R. Tech. C
CHECKED	W. J. F.

EXAMINED: OCT 12 1976
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

A-9-R (1°-14°) 3-23-71

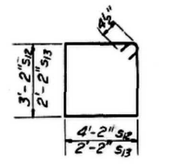


WING WALL ELEVATION
Reinforcement

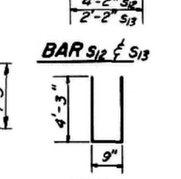


BAR v5

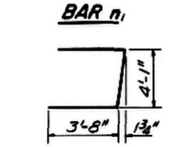
SEC. B-B



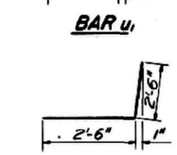
BAR s12 & s13



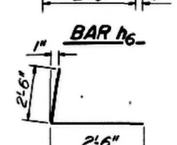
BAR s14



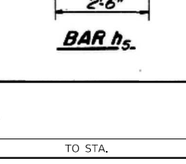
BAR n1



BAR u1



BAR h6



BAR h5

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_3	3	#5	6'-11"	—
h_4	16	#5	21'-2"	—
h_5	9	#5	5'-0"	L
h_6	9	#5	5'-0"	L
h_7	36	#4	11'-3"	—
h_8	6	#6	21'-4"	—
n_1	24	#6	9'-3"	U
p_2	16	#7	22'-9"	—
p_3	12	#7	12'-6"	—
s_{12}	40	#4	15'-5"	U
s_{13}	22	#4	9'-5"	U
s_{14}	8	#4	5'-2"	U
u_1	8	#6	11'-5"	U
v_4	82	#4	5'-6"	—
v_5	48	#6	6'-3"	—
v_6	41	#4	3'-3"	—
v_7	24	#5	2'-6"	—
Class X Concrete		Cu. Yds.	424	
Reinforcement Bars		Lbs.	3930	
Steel Piles (HP10x42)		Lin. Ft.	414	

NORTH ABUTMENT
NORTH BOUND LANES
F.A. RT. 405 — SEC. 72-7HB-3
PEORIA COUNTY
STA. 169+02.00

USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED -	REVISED -	
PLOT DATE = 5/14/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 11 OF 15 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	21
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		

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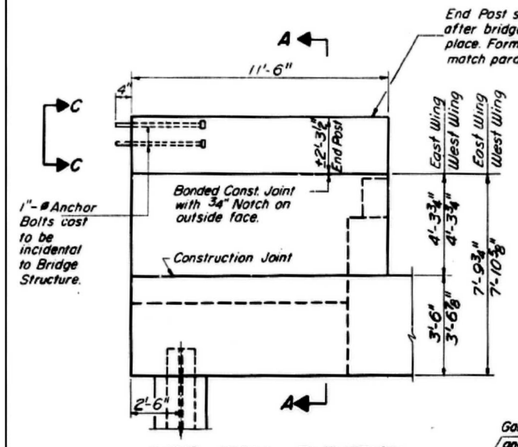
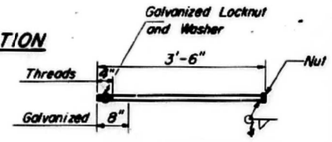
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 318 & FAI 405	72-7HB-3	Peoria	25	19
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

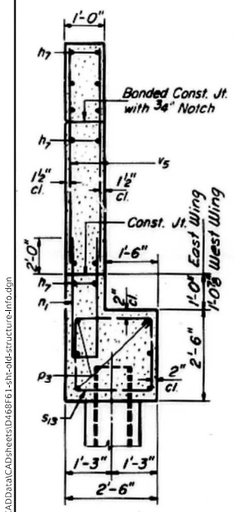
SHEET NO. 16
22 SHEETS



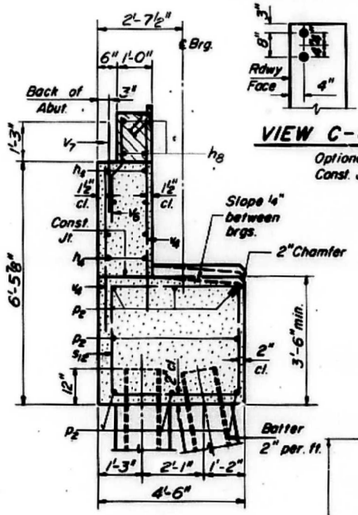
WING WALL ELEVATION



1" ø ANCHOR BOLT

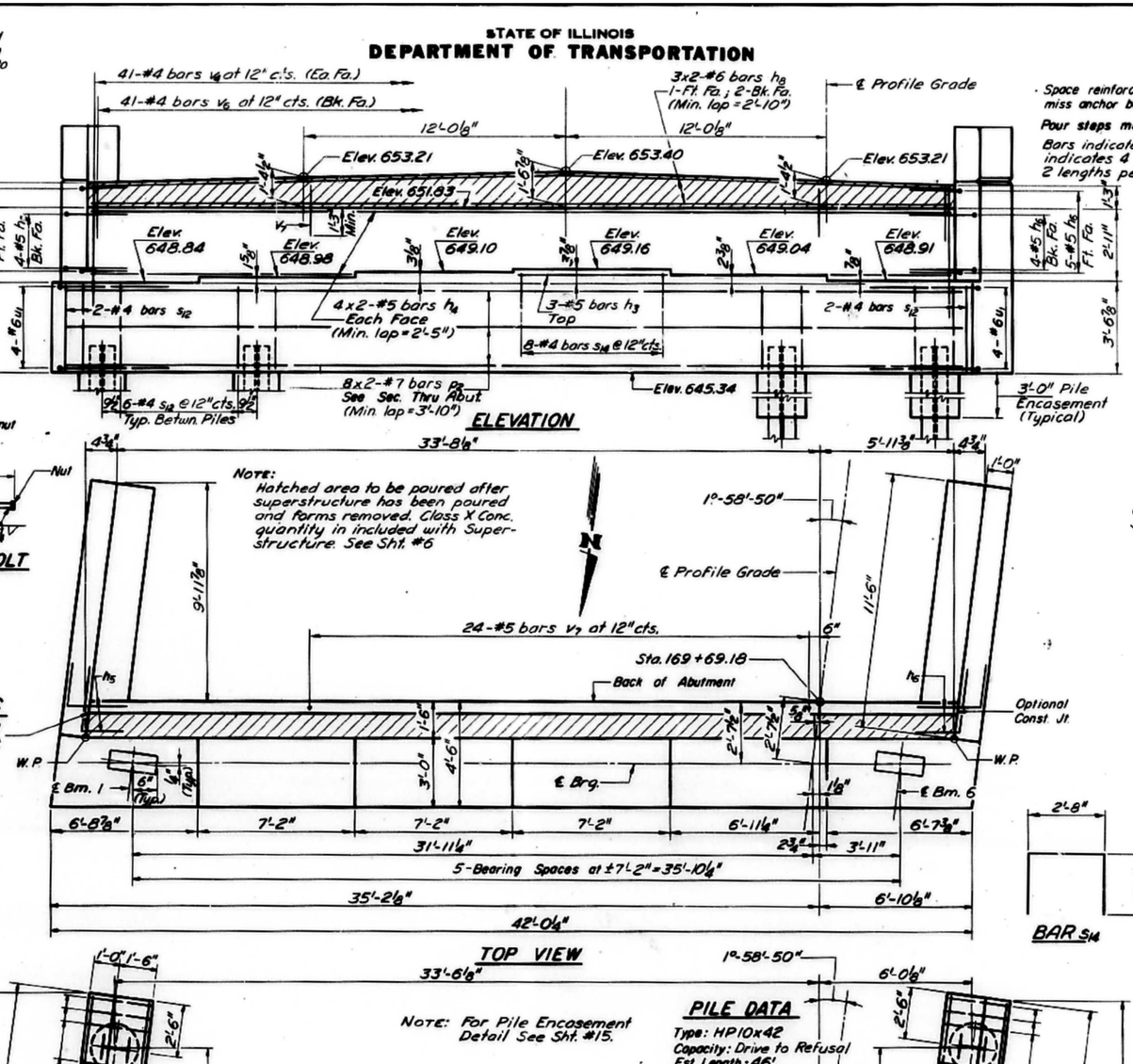


SEC. A-A



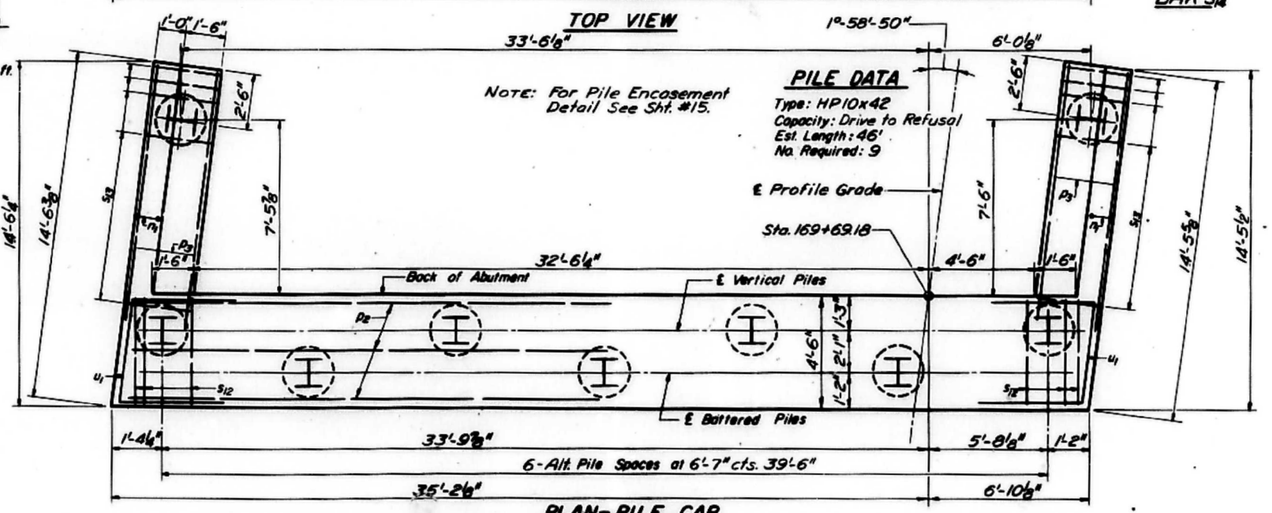
SEC. THRU ABUT.

VIEW C-C

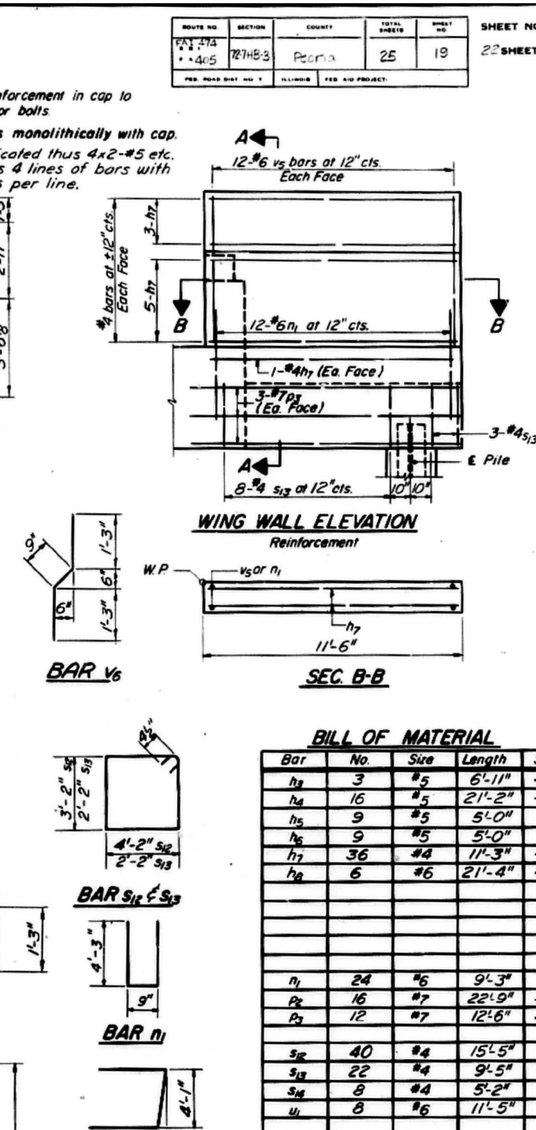


ELEVATION

TOP VIEW



PLAN-PILE CAP



WING WALL ELEVATION
Reinforcement

BAR v6

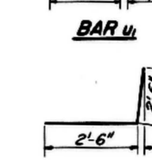
SEC. B-B

BAR s14

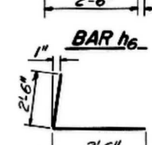
BAR s12 & s13

BAR n1

BAR u1



BAR h6



BAR h7

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3	3	#5	6'-11"	—
h4	16	#5	21'-2"	—
h5	9	#5	5'-0"	L
h6	9	#5	5'-0"	L
h7	36	#4	11'-3"	—
h8	6	#6	21'-4"	—
n1	24	#6	9'-3"	U
p2	16	#7	22'-9"	—
p3	12	#7	12'-6"	—
s12	40	#4	15'-5"	DOG
s13	22	#4	9'-5"	DOG
s14	8	#4	5'-2"	DOG
u1	8	#6	11'-5"	U
v4	82	#4	5'-6"	—
v5	48	#6	6'-3"	—
v6	41	#4	3'-3"	—
v7	24	#5	2'-6"	—
Class X Concrete		Cu. Yds.	430	
Reinforcement Bars		Lbs.	3930	
Steel Piles (HP10x42)		Lin. Ft.	414	

DESIGNED	Lunes Oppeto	
CHECKED	Bill Flannigan	
DRAWN	G.M. Ritchie	
CHECKED	W.J.F.	

EXAMINED Oct 12 1976
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

A-9-R (1°-14°) 3-23-71

SOUTH ABUTMENT
NORTH BOUND LANES
F.A. RT. 405 - SEC. 72-7HB-3
PEORIA COUNTY
STA. 169+02.00

MODEL: Default
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USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:100	CHECKED -	REVISED -
PLOT DATE = 5/14/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 12 OF 15 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	22
		CONTRACT NO. 68F61		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE. 318	72-7 HB-3		25	23
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

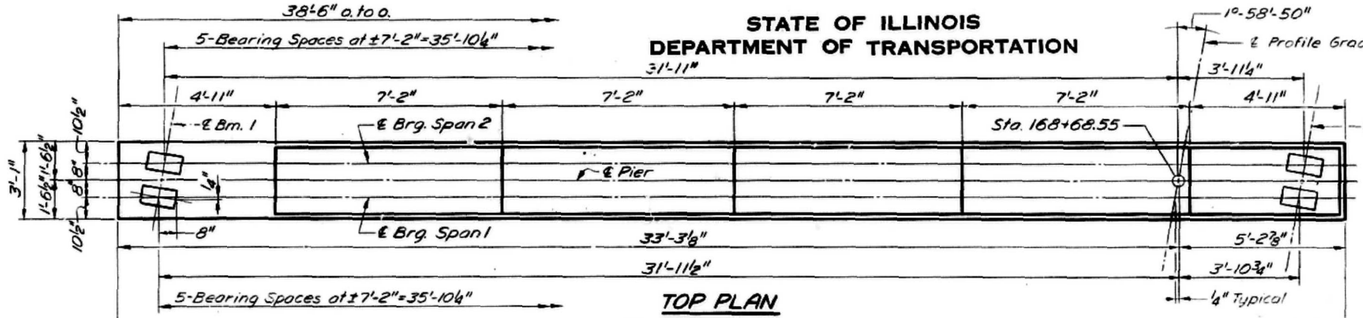
SHEET NO. 13
22 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

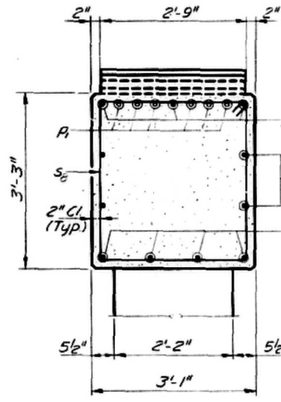
PILE DATA

TYPE: HP8x36
CAPACITY: Drive to Refusal
EST. LENGTH: 29'
No. REQ'D: 14 plus 1 permanent test pile

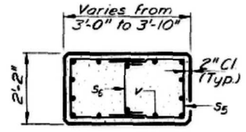
TOP PLAN



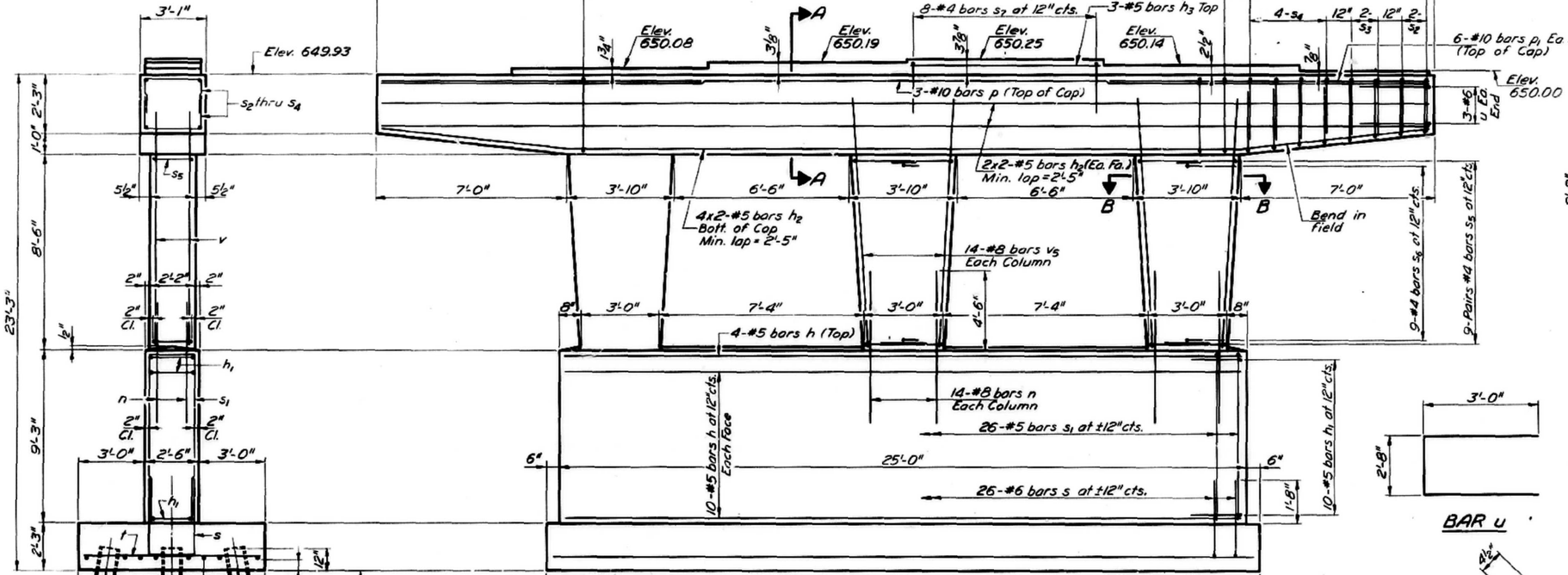
NOTES:
All edges shall have standard ¾" chamfers except as noted.
Pour caps monolithically with cap.
Bars indicated thus 2x2-#5 bars etc. indicates 2 lines of bars with 2 lengths per line.



SECTION A-A

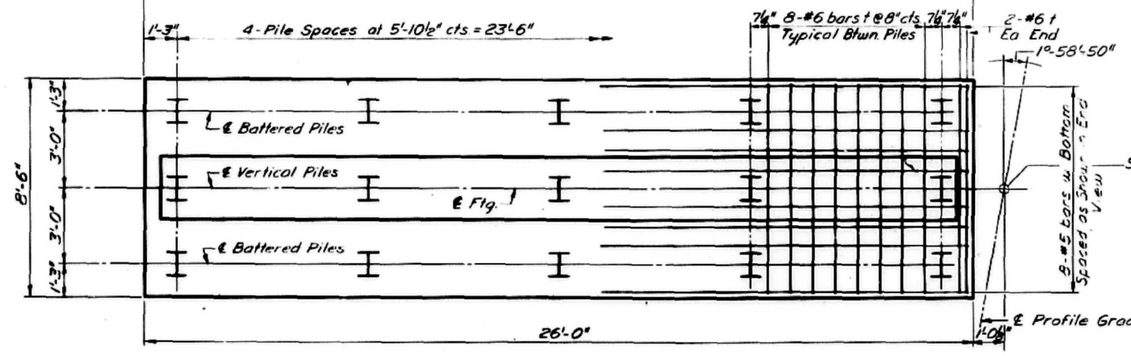


SECTION B-B



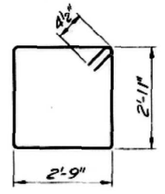
ELEVATION

END VIEW

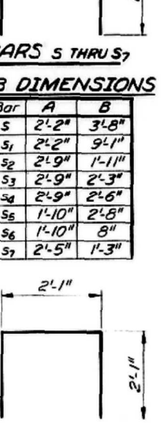


FOOTING PLAN

BAR u



BAR s8



BARS s THRU s7

A&B DIMENSIONS

Bar	A	B
s	2'-2"	3'-8"
s1	2'-2"	9'-1"
s2	2'-9"	1'-11"
s3	2'-9"	2'-3"
s4	2'-9"	2'-6"
s5	1'-10"	2'-8"
s6	1'-10"	8"
s7	2'-5"	1'-3"

BAR h1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	24	#5	24'-8"	—
h1	20	#5	6'-11"	□
h2	16	#5	20'-4"	—
h3	3	#5	6'-11"	—
n	42	#8	7'-2"	—
p	3	#10	38'-2"	—
p1	12	#10	12'-10"	—
s	26	#6	9'-6"	□□□□□□□
s1	26	#5	20'-1"	□□□□□□□
s2	8	#5	6'-7"	□□
s3	8	#5	7'-3"	□□
s4	16	#5	7'-9"	□□
s5	54	#4	7'-2"	□□□
s6	27	#4	3'-2"	□□□
s7	8	#4	4'-11"	□□
s8	23	#4	12'-1"	□
t	36	#6	8'-3"	—
u	6	#6	8'-8"	⊏
v	42	#8	11'-2"	—
w	8	#5	25'-9"	—
Class X Concrete			Cu.Yds.	61.1
Reinforcement Bars			Lbs.	6770
Steel Piles (HP8x36)			Lin. Ft.	405
Test Piles Steel (HP8x36)			Ea.	1

DESIGNED James Oggiani
CHECKED Bill Flanigan
DRAWN M.R.Kiefaber
CHECKED W.L.F.

EXAMINED Oct 12 '16
PASSED
APPROVED

PIER 1
NORTH BOUND LANES
F.A.RT. 405 - SEC. 72-7HB-3
PEORIA COUNTY
STA. 169+02.00

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:100	CHECKED -	REVISED -
PLOT DATE = 5/14/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 13 OF 15 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	23
		CONTRACT NO. 68F61		
	ILLINOIS FED. AID PROJECT			

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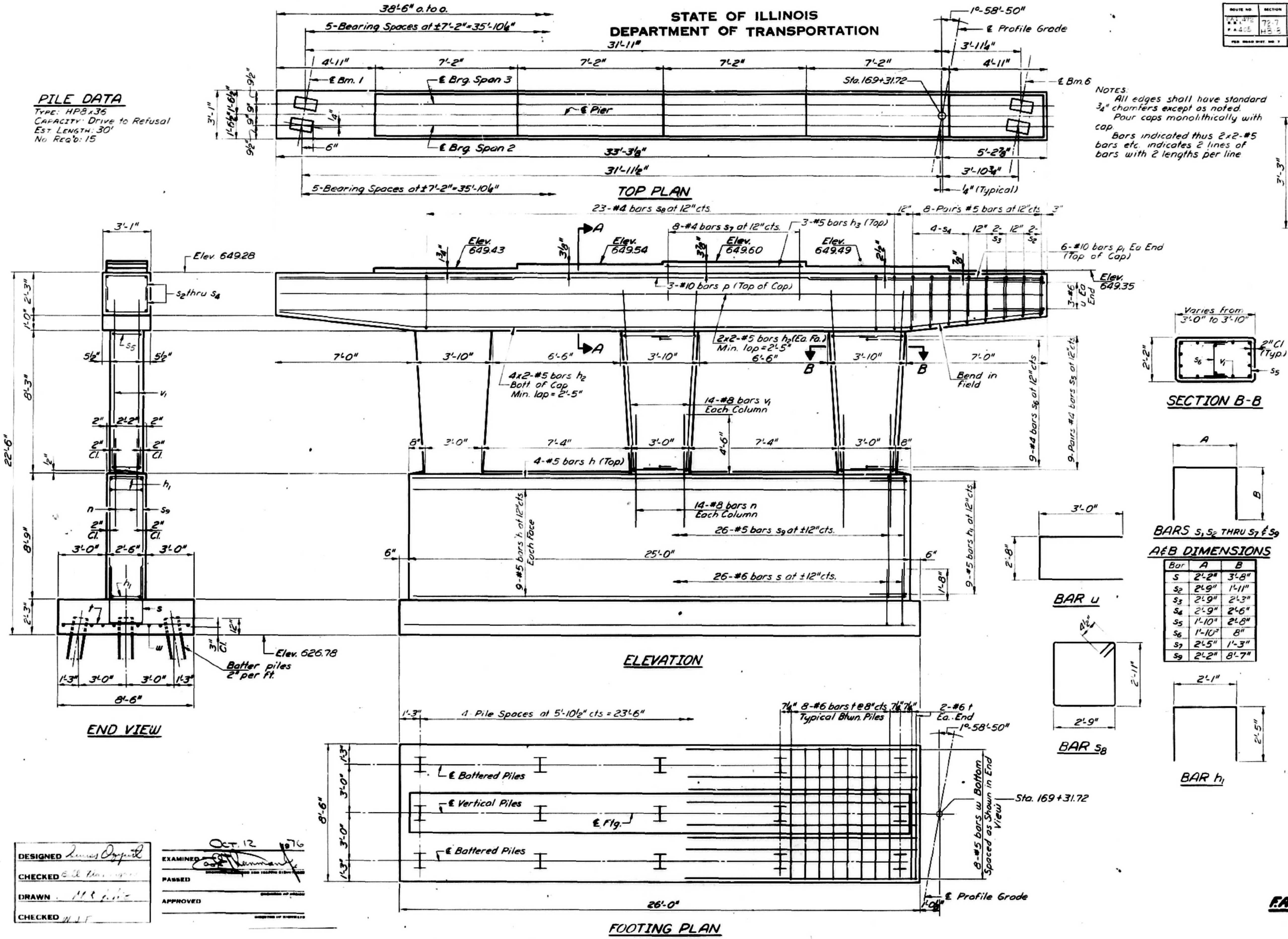

BARS s, s_2 THRU s_7 & s_9

A&B DIMENSIONS

Bar	A	B
s	2'-2"	3'-8"
s_2	2'-9"	1'-11"
s_3	2'-9"	2'-3"
s_4	2'-9"	2'-6"
s_5	1'-10"	2'-8"
s_6	1'-10"	8"
s_7	2'-5"	1'-3"
s_9	2'-2"	8'-7"

BILL OF MATERIAL

Bar	No	Size	Length	Shape
h	22	#5	24'-8"	straight
h_1	18	#5	6'-11"	⊓
h_2	16	#5	20'-4"	straight
h_3	3	#5	6'-11"	straight
n	42	#8	7'-2"	straight
p	3	#10	38'-2"	straight
p_1	12	#10	12'-10"	straight
s	26	#6	9'-6"	⊓
s_2	8	#5	6'-7"	⊓
s_3	8	#5	7'-3"	⊓
s_4	16	#5	7'-9"	⊓
s_5	54	#4	7'-2"	⊓
s_6	27	#4	3'-2"	⊓
s_7	8	#4	4'-11"	⊓
s_8	23	#4	12'-1"	closed
s_9	26	#5	19'-4"	⊓
t	36	#6	8'-3"	straight
u	6	#6	8'-8"	⊏
v_1	42	#8	10'-11"	straight
w	8	#5	25'-9"	straight
Class X Concrete			Cu. Yds.	59.7
Reinforcement Bars			Lbs.	6650
Steel Piles (HP8x36)			Lin. Ft.	450

PIER 2
NORTH BOUND LANES
F.A. RT. 405 – SEC. 72-7HB-3
PEORIA COUNTY
STA. 169+02.00

SHEET NO. 20 — 22 SHEETS

DESIGNED / CHECKED / DRAWN / CHECKED

EXAMINED Oct. 12 1976 — PASSED — APPROVED

USER NAME = $USER$	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:100	CHECKED -	REVISED -
PLOT DATE = 5/14/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: — SHEET 14 OF 15 SHEETS — STA. — TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	24

CONTRACT NO. 68F61

ILLINOIS FED. AID PROJECT

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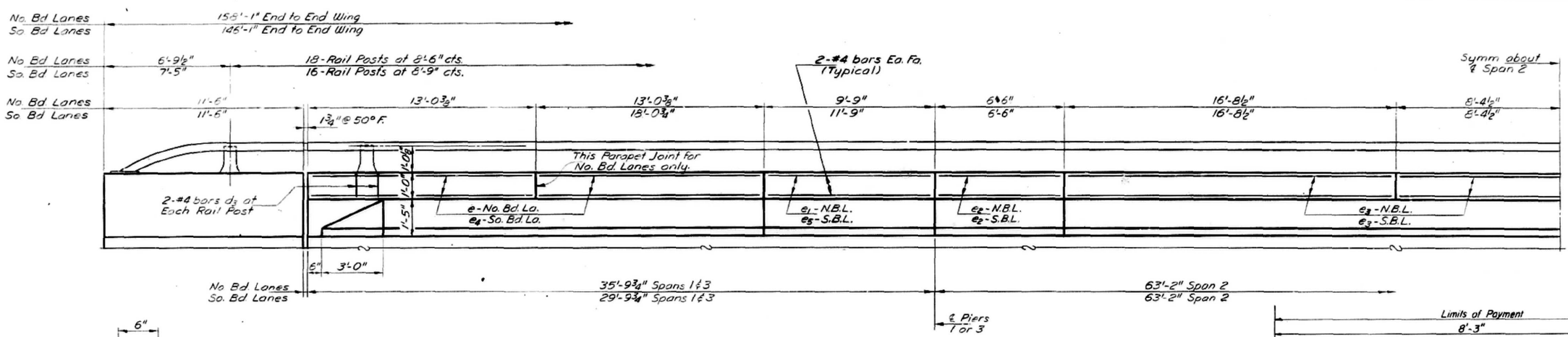
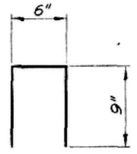
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 473	72-7HB-3	Peoria	25	11

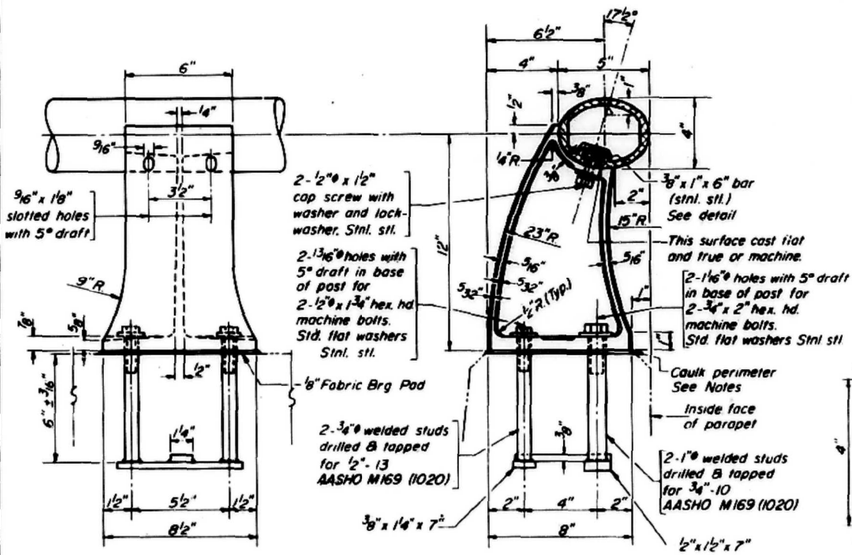
SHEET NO. 5 OF 22 SHEETS



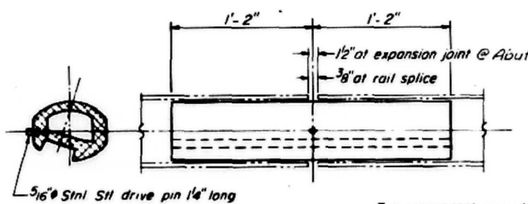
HALF ELEVATION
(Showing inside face)



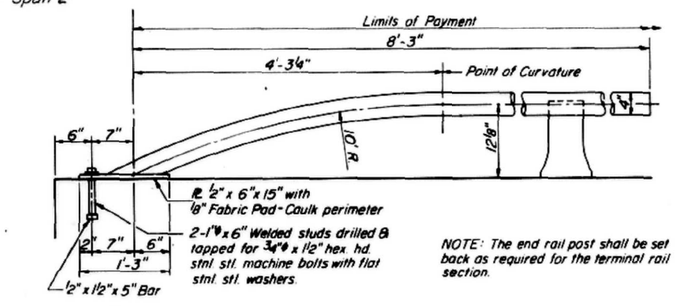
BAR d_3



RAIL POST DETAILS

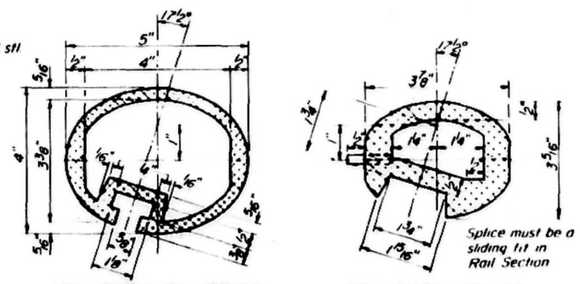


RAIL SPLICE



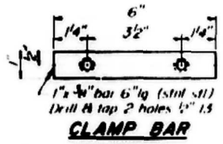
NOTE: The end rail post shall be set back as required for the terminal rail section.

RAIL TERMINAL SECTION



SEC. THRU ELLIPTICAL RAIL SECTION

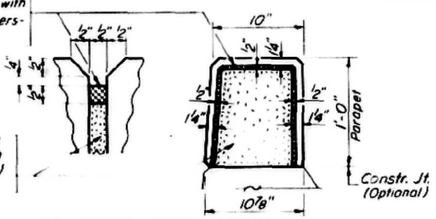
SEC. THRU SPLICE



CLAMP BAR

Two component non-staining gray sealing compound with polysulfide liquid polymers-gun grade with primer

½" Preformed Cork Joint Filler (In accordance with Articles 715.07 or 715.08) Cost incidental



PARAPET JOINT DETAIL

NOTES:

Stainless steel machine bolts or cap screws shall be in accordance with Article 710.37(a) of the Std. Spec's. except Grade B8 or B8M may be furnished.

All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts

All joints in rail shall be spliced per detail.

Provide 1 ⅛" and 2 - 1/16" Aluminum Shims for 25% of the Posts Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.

Seal perimeter of base of post to parapet with two component non staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post

Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6 or 6351-T5 with min yield 35 ksi, min tensile 38 ksi, and elongation of 10% in 2 inches.

TWO STRUCTURES
PARAPETS & RAILS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e	32	#4	12'-9"	
e_1	16	#4	9'-6"	
e_2	32	#4	6'-3"	
e_3	48	#4	16'-5"	
e_4	16	#4	17'-9"	
e_5	16	#4	11'-6"	
d_3	120	#4	2'-0"	
Reinforcement Bars			Lbs.	1510
Class X Concrete			Cu Yds.	16.6
Aluminum Railing			Lin Ft	600

ALUMINUM RAILING
F.A. RT. 405 - SEC. 72-7HB-3
PEORIA COUNTY
STA. 169+02.00

DESIGNED	Dennis Oppert
CHECKED	Bill Harrison
DRAWN	G. Ritchie
CHECKED	

EXAMINED Oct 12 '76
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

R-17 4-15-75

USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED -	REVISED -	
PLOT DATE = 5/14/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 15 OF 15 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB-3)BRR	PEORIA	25	25
		CONTRACT NO. 68F61		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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