

SN. 101-0073

101-0074

ROUTE NO.	SEC.	COUNTY	STATION	DATE
FA. 194	6B	WINNEBAGO	85+41.0	7/1/62
STA.		TO STA.		
SEE ROAD DIST. ON PLANS				

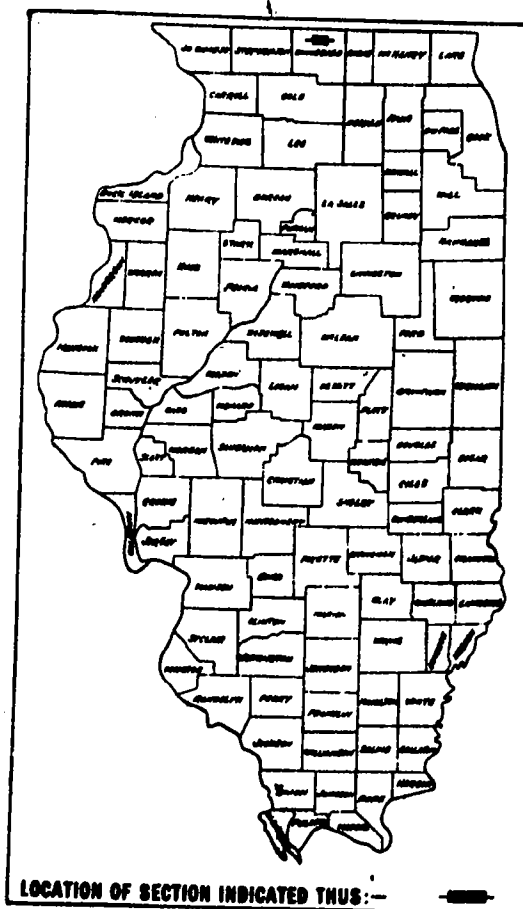
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
BRIDGE OVER KISHWAUKEE RIVER

WINNEBAGO COUNTY
ROCKFORD BYPASS

F.A. ROUTE 194 SECTION 6B
F.A. ROUTE 194 SECTION 6F

PROJECT F-284(18)

PROJECT F-284(18).
SEC. 6B & 6F BEGINS STA. 85+41.0



LOCATION OF SECTION INDICATED THUS:—

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
W. B. Bauman 7/1/62
Engineer of Bridge & Traffic Structures

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	APPROVED DATE: MAY 29, 1962 BY: W. B. Bauman DISTRICT ENGINEER
DESIGNED: July 8, 1962 BY: W. B. Bauman	CHECKED: July 9, 1962 BY: W. B. Bauman
DRAWN: July 9, 1962 BY: W. B. Bauman	APPROVED: July 9, 1962 BY: W. B. Bauman

DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	APPROVED DATE: _____ BY: _____ DIVISION ENGINEER
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24. 24. STD. 1971-3 (ROAD UNDER CONSTRUCTION SIGN) STD. 1972-1 (BARRICADES)	

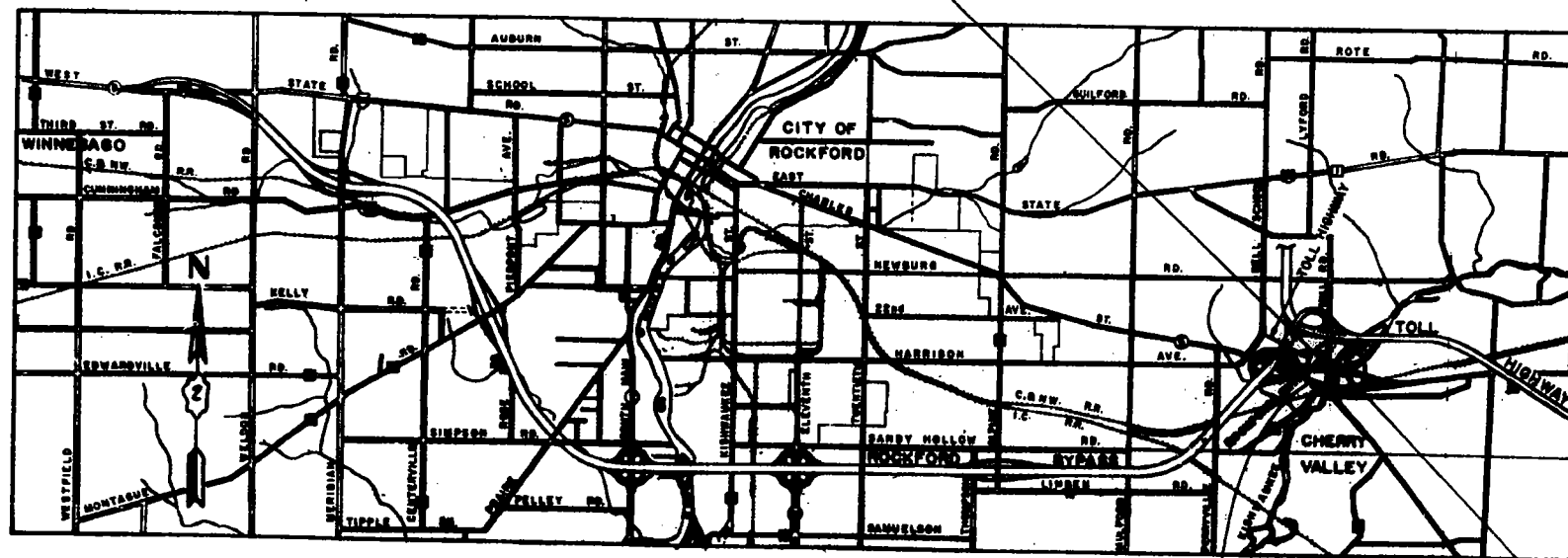
SECTION 6B CONSISTS OF THE CONSTRUCTION OF TWO (2) PARALLEL WF-BEAM BRIDGES (S.B.I. ROUTE 5 OVER THE KISHWAUKEE RIVER) SPANS: 1 @ 70'-0", 1 @ 90'-0", AND 1 @ 70'-0" AT STATION 84+56.00 AT THE INTERSECTION OF ROUTE 5 AND THE KISHWAUKEE RIVER WITH THE EXCEPTION, OF FURNISHING AND FABRICATING STRUCTURAL STEEL, FURNISHING AND APPLYING SHOP COAT OF PAINT, AND DELIVERY OF THE STRUCTURAL STEEL. ALSO INCLUDED IS THE CHANNEL RELOCATION OF THE KISHWAUKEE RIVER FROM STA. 19+00.00 TO STA. 52+00.00.

SECTION 6F INCLUDES FURNISHING AND FABRICATING STRUCTURAL STEEL, FURNISHING AND APPLYING SHOP COAT OF PAINT AND THE DELIVERY OF THE STRUCTURAL STEEL FOR THE CONSTRUCTION OF TWO (2) PARALLEL WF-BEAM BRIDGES (S.B.I. ROUTE 5 OVER THE KISHWAUKEE RIVER) SPANS: 1 @ 70'-0", 1 @ 90'-0", AND 1 @ 70'-0" AT STATION 84+56.00 AT THE INTERSECTION OF ROUTE 5 AND THE KISHWAUKEE RIVER.

ROAD CLASSIFICATION:
S.B.I. ROUTE 5 449 - K-70

ENTIRE SECTION INSPECTED AND APPROVED AS TO POLICY
DATE: MAY 29, 1962
DISTRICT ENGINEER: W. B. Bauman

Job No 22539(F) 22540(B)
REV. 7-18-62 REDUCED STANDARD 1809-3
FROM 2405 OF SHEETS.



Section Length = 230 Feet = 0.044 Miles Project Length = 230 Ft. = 0.044 Mile
MACCABEE, CAMPBELL & ASSOCIATES

CONSULTING ENGINEERS
173 W. MADISON ST. CHICAGO, ILL.

Ben Macabee

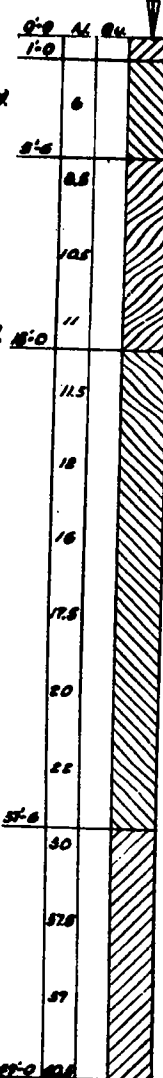
BORING N° 1

STA. 86+17.50
 22'-0" LEFT OF E. ROWY
 APP. GROUND CL. 718.7



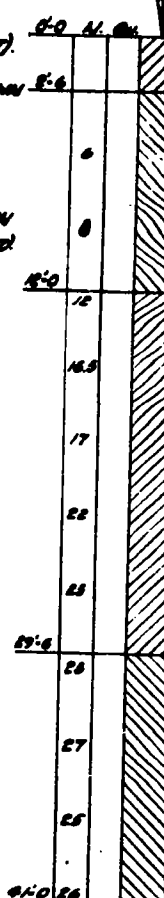
BORING N° 2

STA. 86+59.00
 22'-0" RIGHT OF E. ROWY
 APP. GROUND CL. 721.1



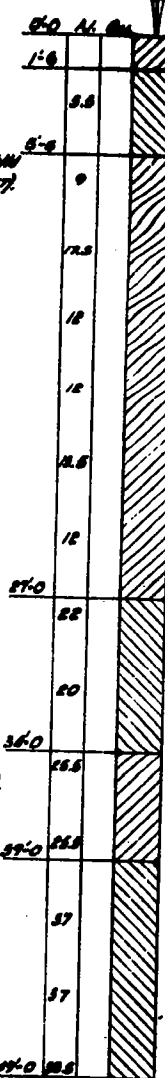
BORING N° 3

STA. 86+62.00
 22'-0" LEFT OF E. ROWY
 DIVES SURFACE CL. 715.0



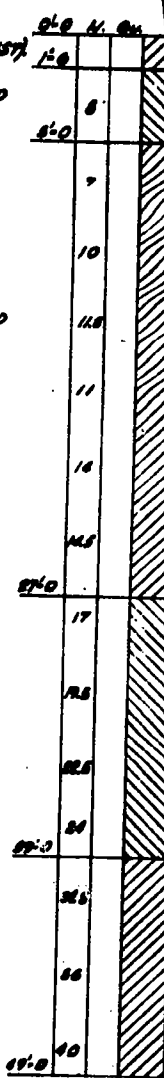
BORING N° 4

STA. 86+89.00
 22'-0" RIGHT OF E. ROWY
 APP. GROUND CL. 719.0



BORING N° 5

STA. 86+18.50
 22'-0" LEFT OF E. ROWY
 APP. GROUND CL. 718.9



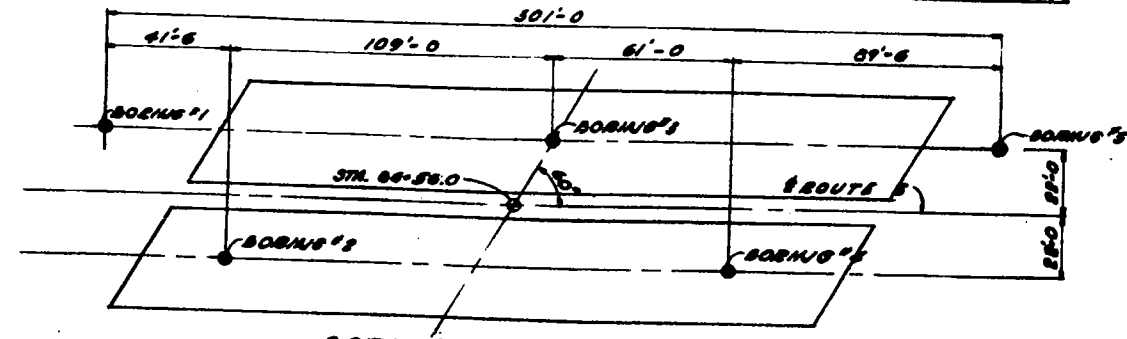
GENERAL NOTES
 COARSE AGGREGATE WHICH IS TO BE USED IN THE END POSTS MUST BE ABSOLUTELY FREE OF CHERT, FLINT, LIMONITE, LIGNITE AND SOFT SANDSTONE.
 CLASS "X" CONCRETE SHALL BE USED THROUGHOUT.
 ALL EXPOSED EDGES SHALL HAVE A 1" CHAMFER.
 THE CONCRETE FLOOR SLAB SHALL BE FINISHED IN ACCORDANCE WITH ART. 81.19 OF THE STANDARD SPECIFICATIONS.
 SPICES 1/2" OPEN HOLES 1/2" UNLESS NOTED.
 ALL BOLTS, RODS, BEARING PLATES, LEAD PLATES, PINTLES AND ANCHOR BOLTS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ART. 81.15 OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL.
 ANCHOR BOLTS SHALL BE SET BEFORE RIVETING DIAPHRAGMS OVER SUPPORTS.
 ALL STEEL HANDRAIL POSTS SHALL BE VERTICAL.
 EXPANSION GUARDS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ART. 81.13 (d) OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL.
 THE OUTSIDE FACE OF THE VERTICAL LEGS OF THE EXPANSION GUARDS SHALL BE GIVEN TWO SHOP COATS OF RED LEAD PAINT.
 ALL COVER PLATES AND BOLTS TO WHICH COVER PLATES ARE WELDED SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL STEEL.
 EXCEPT AS OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF ALUMINUM PAINT. SEE ART. 80.1 TO 80.5 INCLUSIVE OF THE STANDARD SPECIFICATIONS.
 ALL PAINT SHALL BE FURNISHED & APPLIED BY THE CONTRACTOR INVOLVED.
 THE CONTRACTOR SHALL DRIVE ONE CONCRETE TEST PILE AT EACH ABUTMENT IN A PERMANENT LOCATION, AS SHOWN ON THE PLANS, ONE TEST PILE IN THE VICINITY OF BORING N° 1, PER 2.5. WORKING THE REMAINDER OF THE PILE.
 ABUTMENT PILES SHALL BE DRIVEN 1/2" BELOW THE CORNER OF THE ENHANCEMENT TO NATURAL FLOOR LINE IN ACCORDANCE WITH ART. 60.5 (c) OF THE STANDARD SPECIFICATIONS.
 THE SLOPE SHALL BE REINFORCED WITH 6" x 6" WELDED WIRE FABRIC.
 REINFORCEMENT BARS SHALL BE PLACED EXACTLY AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ART. 89.5 OF THE STANDARD SPECIFICATIONS.

NOTE: WHEREVER IN THESE PLANS REFERENCE IS MADE TO THE STANDARD SPECIFICATION IT IS UNDERSTOOD TO INCLUDE THE SUPPLEMENTAL SPECIFICATION, EFFECTIVE APRIL 2, 1962.

SUMMARY OF QUANTITIES SEC. 6-B			
TOTAL	UNIT	ITEM	CODE NO.
20	ACRES	TEMPORARY SEEDING	110001
20	ACRES	COMPLETE SEEDING	110004
1188	IN. DIA.	TREE REMOVAL (6 TO 18" DIA.)	010001
1650	IN. DIA.	TREE REMOVAL (OVER 18" DIA.)	010008
3.3	ACRES	TREE REMOVAL (ACRES)	010006
715	CU. YDS.	EARTH EXCAVATION	011001
59,278	CU. YDS.	CHANNEL EXCAVATION	012001
33,814	CU. YDS.	BORROW EXCAVATION	013001
53	CU. YDS.	CLASS A EXCAVATION FOR STRUCTURES	050001
482	CU. YDS.	CLASS B EXCAVATION FOR STRUCTURES	050008
912.2	CU. YDS.	CLASS X CONCRETE	082005
549,300	LBS.	ERECTING STRUCTURAL STEEL	084005
810	LIN. FT.	FURNISHING & ERECTING METAL HANDRAIL	085001
129,012	LBS.	REINFORCEMENT BARS	086001
2,800	LIN. FT.	FURNISHING UNTREATED PILES (UP TO 30')	088001
420	LIN. FT.	FURNISHING CROSBOTED PILES (UP TO 20')	088004
2	EACH	TEST PILE TIMBER	080007
3,220	LIN. FT.	DRIVING TIMBER PILES	080008
112	EACH	METAL SHOES	080048
1,840	LIN. FT.	DRIVING CONCRETE PILES	080043
1,840	LIN. FT.	FURNISHING CONCRETE PILES	080044
2	EACH	TEST PILE (CONCRETE)	080047
2	EACH	NAME PLATE	081001
5,180	SQ. YDS.	SUPERFALLS, 8 INCH	083005
1943	SQ. YDS.	PROTECTIVE COAT	083001
1,020	LIN. FT.	CLAY SEWER PIPE, 12"	066052
340	LIN. FT.	BITUMINUS COATED CORR. METAL PIPE, 12"	066027

BORING NOTES
 N° NUMBER OF BLOWS PER FOOT FOR A 140# HAMMER FALLING 30".
 QUICKLY OBTAINED COMPRESSIVE STRENGTH IN KIPS PER SQ. FT.

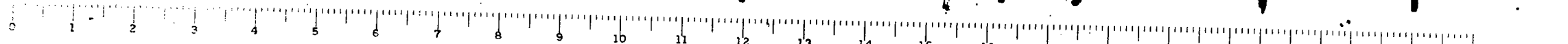
TOTAL	UNIT	ITEM	CODE NO.
549,300	LBS.	FURNISHING STRUCTURAL STEEL	084005



ILLINOIS DIVISION OF HIGHWAYS
 ROCKFORD BYPASS
 F.A. ROUTE 154
 PROJECT _____ SECTION 6-B
 WINNEBAGO COUNTY
 GENERAL NOTES - BORING LOGS
 SUMMARY OF QUANTITIES

REV. 7-31-62 To Summary of Quantities added 20 A. Temp. Seeding, 20 B. Complete Seeding, 1020 P. 12" CLAY SEWER PIPE, 12" and 340 U. 12" CORR. METAL PIPE 12".

Revised 8/10/62 Summary of Quantities of BORING LOGS added from 12,332 to 12,502 LBS. Added 1 Item PROTECTIVE COAT. D.E.S.
 Rev. 7-31-62 changed BORING LOGS to BORING LOGS TO BORING LOGS.



BEGIN SECTION 6
STA. 78+50

B.M. No. 3, 3 Bent Nails in Side Of 24" Ash
200' Rt. Of Sta. 78+00 At OLD MILL RD., E. 1.725.64

B.M. No. 4, Top Of 3 Nails In Side Of 8" Willow
160' Lt. Of Sta. 83+75. E1 720.81

B.M. No. 5, 3 Nails in Root Of 8" Maple
150' Rt. Of Sta. 84+75, El. 720.35

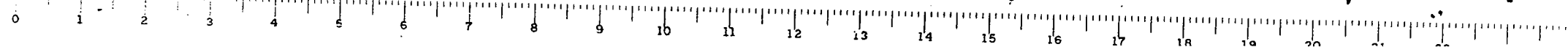
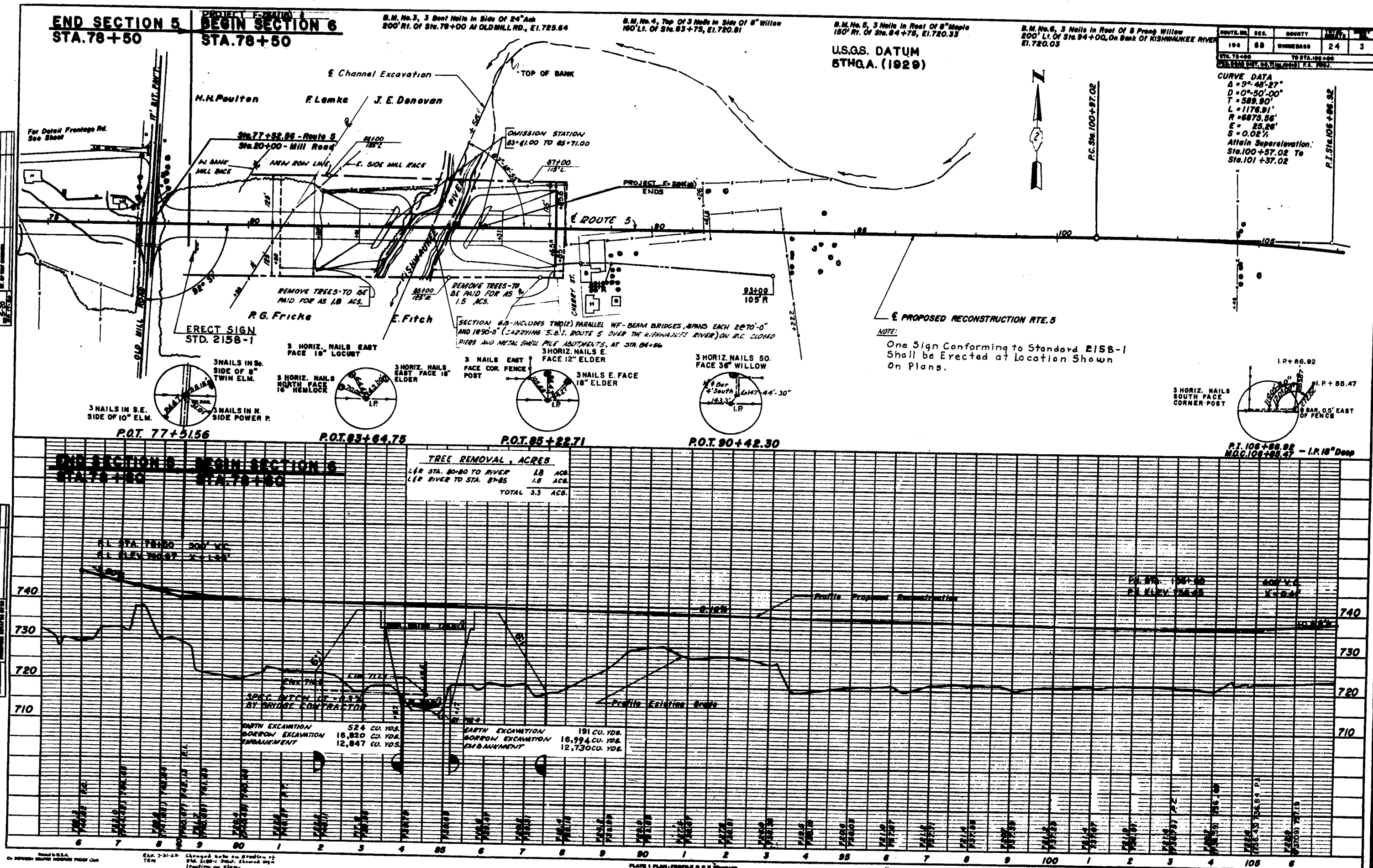
B.M. No. 6, 3 Nails in Root of 5 Prong Willow
200' Lt. of Sta. 94+00, On Bank of KISHWAUKEE RIVER
E1.720.03

U.S.G.S. DATUM
5TH Q.A. (1929)

ROUTE NO.	SEC.	COUNTY	STATION	POST MILE
106	68	WINNEBAGO	24	3

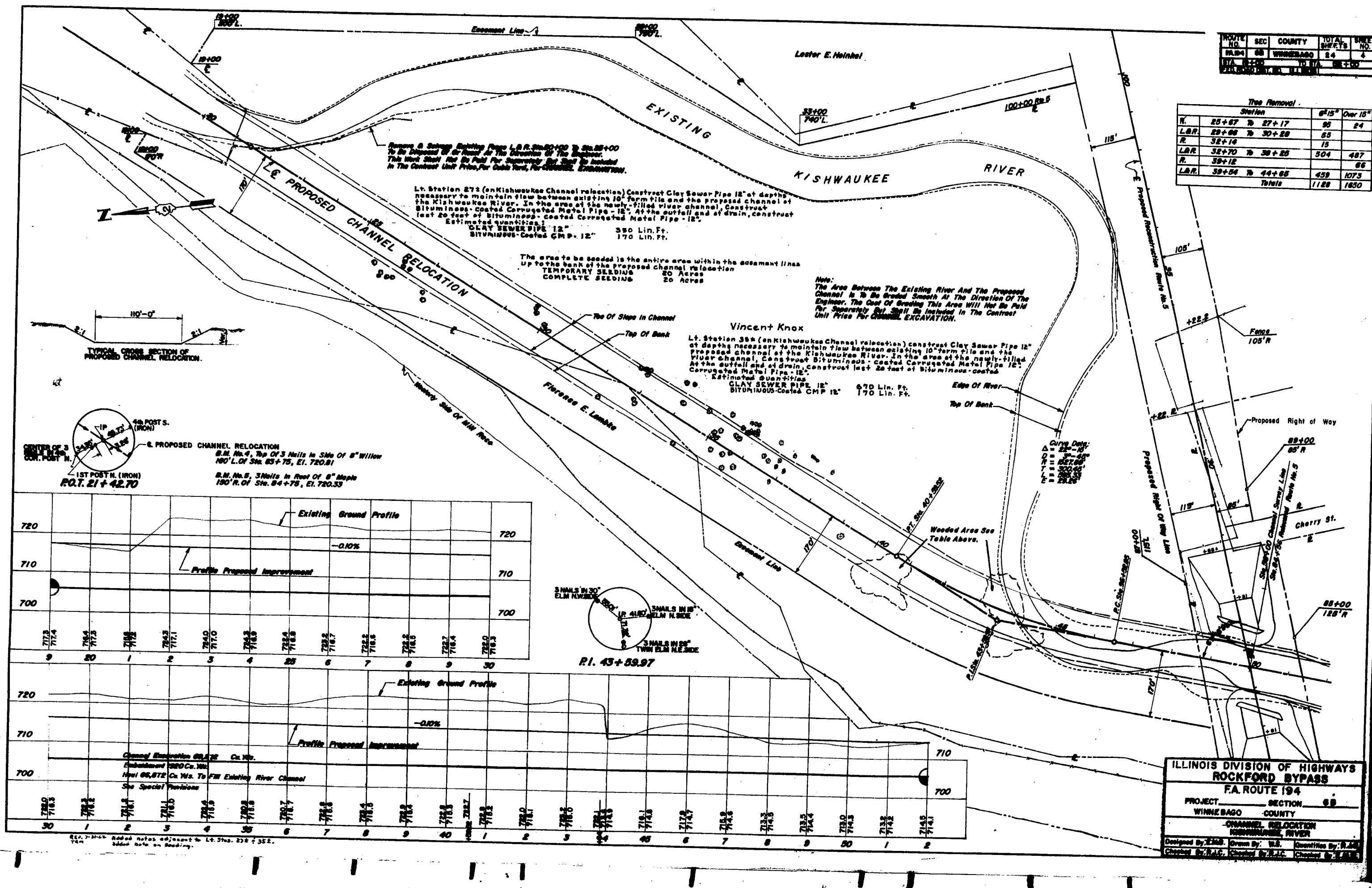
STA. 75+00 TO STA. 100+00

CURVE DATA
 $\Delta = 9^{\circ}-48'-27''$
 $D = 0^{\circ}-50'-00''$
 $T = 589.90'$
 $L = 1176.91'$
 $R = 6875.56'$
 $E = 25.26'$
 $S = 0.02\%$
Attain Superelevation:
Sta. 100 + 57.02 To
Sta. 101 + 37.02

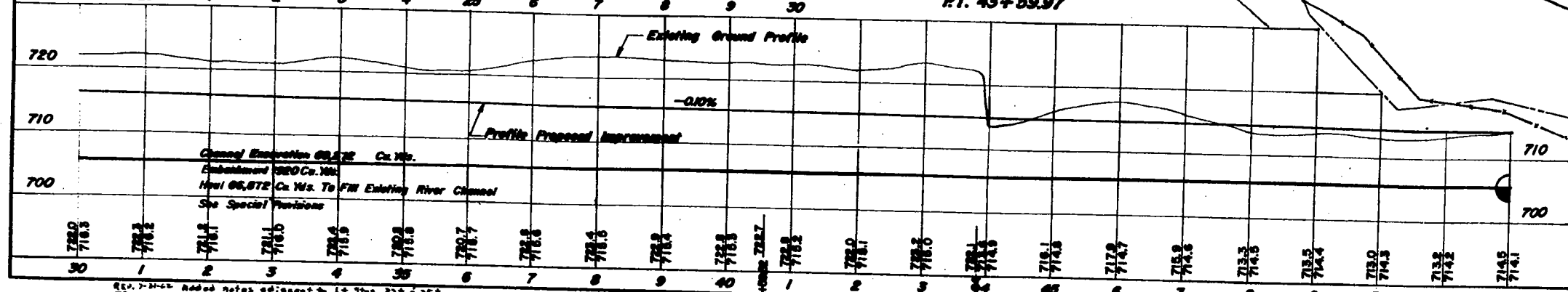
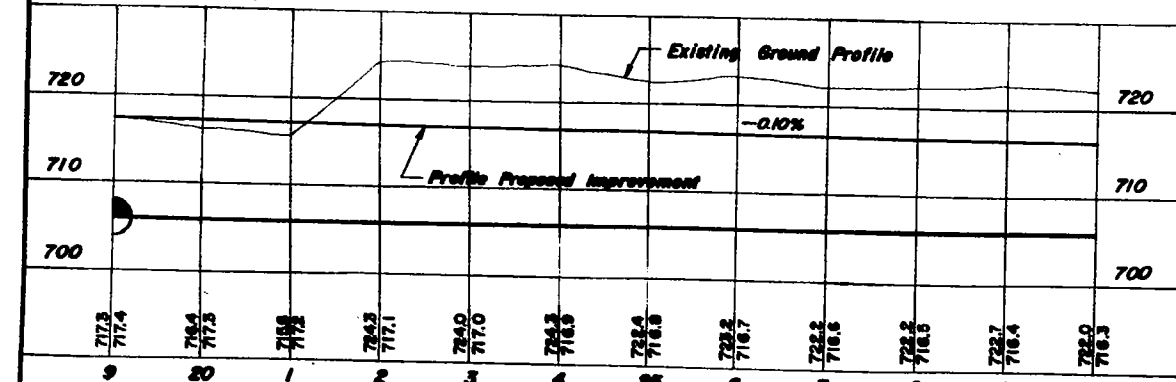


ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
194	68	WINNEBAGO	24	4
194	68	WINNEBAGO	24	4

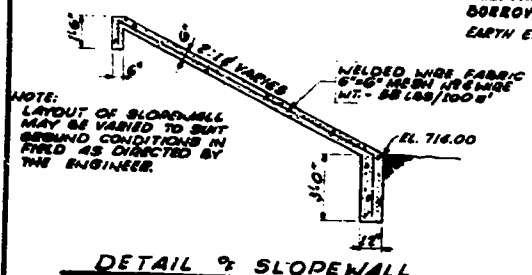
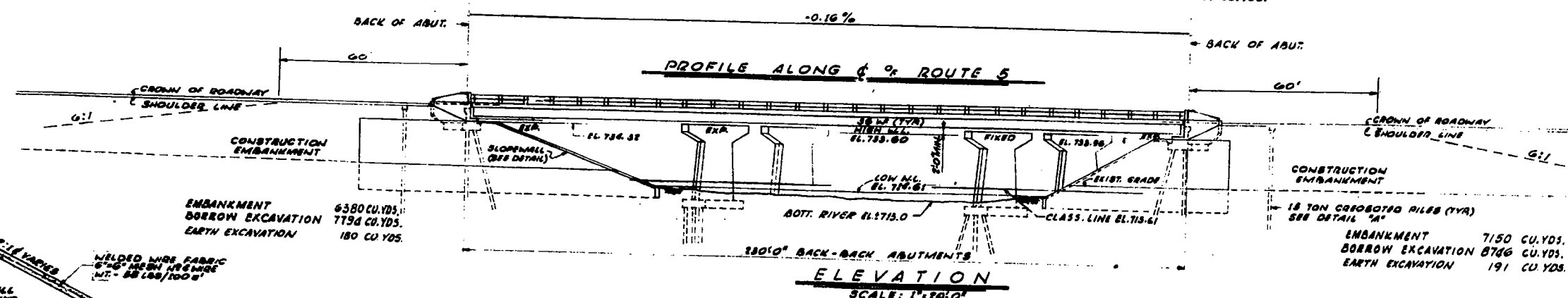
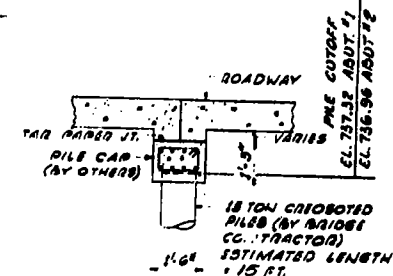
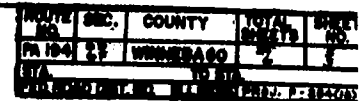
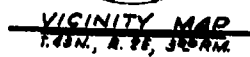
Tree Removal			
Station	6" to 15"	Over 15"	
R. 25+67 to 27+17	95	24	
L.R. 29+08 to 30+28	65		
R. 32+14	15		
L.R. 32+70 to 38+25	504	487	
R. 39+12		66	
L.R. 39+54 to 44+65	459	1073	
Totals	1128	1630	



40 POSTS (IRON)
 CENTER OF 3
 COR. POST N.
 1ST POST N. (IRON)
 R.O.T. 21+42.70
 PROPOSED CHANNEL RELOCATION
 B.M. No. 4, Top Of 3 Nails In Side Of 8" Willow
 100' L. Of Sta. 83+75, El. 720.81
 B.M. No. 5, 3 Nails In Root Of 8" Maple
 190' R. Of Sta. 84+75, El. 720.33



ILLINOIS DIVISION OF HIGHWAYS
 ROCKFORD BYPASS
 F.A. ROUTE 194
 PROJECT _____ SECTION 68
 WINNEBAGO COUNTY
 CHANNEL RELOCATION
 KISHWAUKEE RIVER
 Designed By: E.M.B. Drawn By: W.S. Quantities By: R.A.B.
 Checked By: E.A.C. Checked By: E.A.C. Checked By: E.A.C.



DRAINAGE DATA
DRAINAGE AREA _____ 647 SQ. MI.
CHARACTER _____ ROLLING
REQUIRED OPENING _____ 3350 SQ. FT.
PROPOSED OPENING _____ 3482 SQ. FT.

STATION 84-56
BUILT 196 BY
STATE OF ILLINOIS
F.A. RT. 194 SEC. 6B
F.A. PROJ. F 284
LOADING H2O-516

318 STATE OF ILLINOIS STD. 8113
NAME PLATE
(2 REQ'D.)

DESIGN DATA

SPECIFICATIONS:
A.A.S.H.O. DATED 1957. STANDARD SPECIFICATIONS
FOR ROAD AND BRIDGE CONSTRUCTION DATED
JANUARY 3, 1958.

LOADING:
S.L. H20-S16-44
D.L. 70 P.S.F. FUTURE WEARING SURFACE.

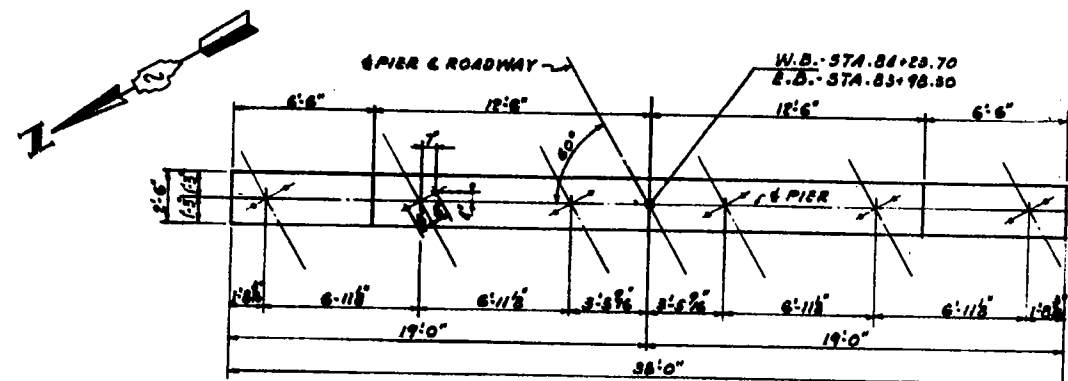
STRESSES: ADDITIONAL

CONCRETE
F_c = 1400 P.S.I. SUPERSTRUCTURE H-10
F_c = 1000 P.S.I. SUBSTRUCTURE (WITH EARTH PRESSURE)
F_c = 1000 P.S.I. SUBSTRUCTURE (WITHOUT EARTH PRESSURE)
75 P.S.I. MAX. ALLOWABLE V IN PIER FOOTINGS.

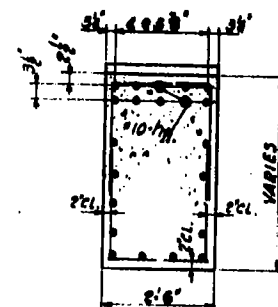
STEEL
STRUCTURAL : 18000 P.S.I.
REINFORCING : 20000 P.S.I.

ILLINOIS DIVISION OF HIGHWAYS		
ROCKFORD BYPASS		
F.A. ROUTE 194		
PROJECT _____	SECTION 68	
WINNEBAGO		COUNTY
GENERAL PLAN		
Designed By: J. Ford	Drawn By: F. L.	Quantities By: D. H.
Checked By: G. L. G.	Checked By: _____	Checked By: G. L. G.

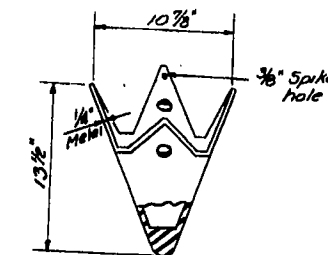
ROUTE	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
PA 104	SS	WINNEBAGO	24	6
STA.	TO STA.	DATE		
10+00	11+00	11-11-51		



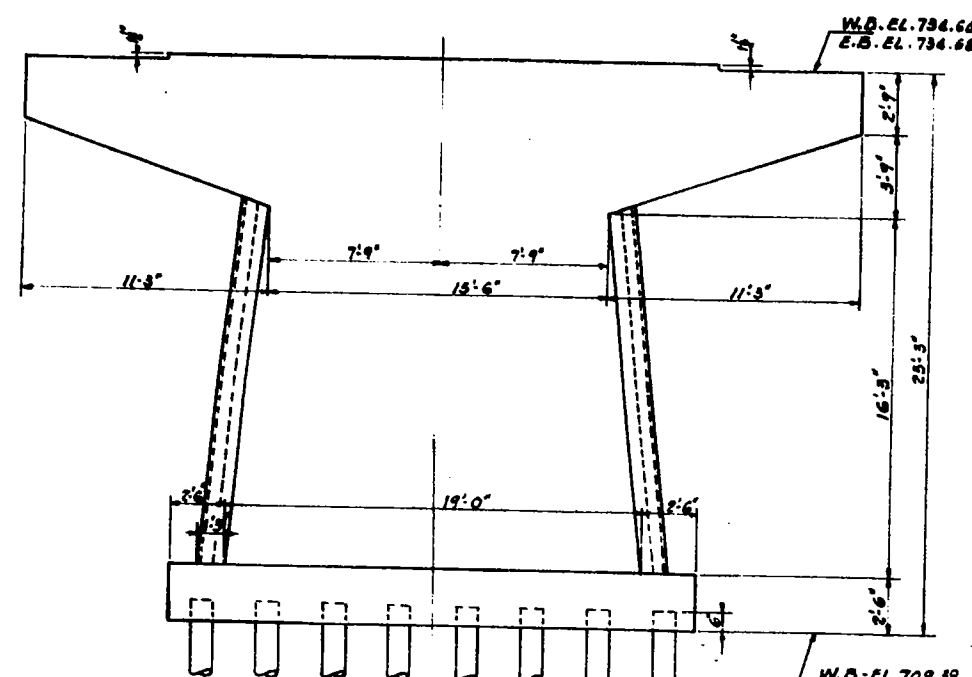
TOP PLAN



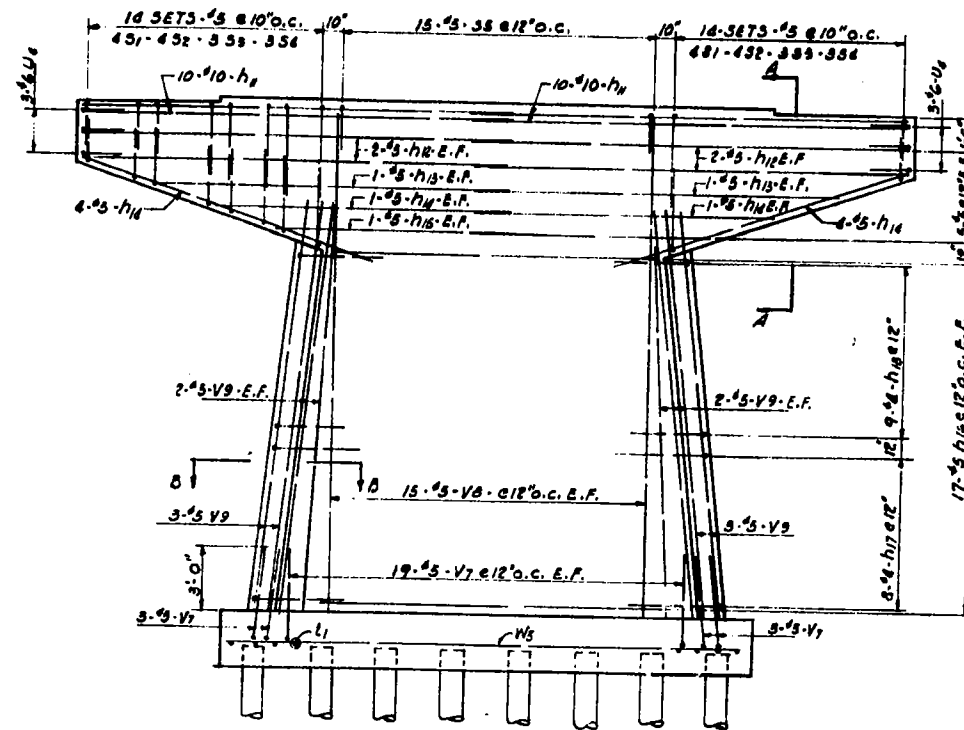
SECTION A-A



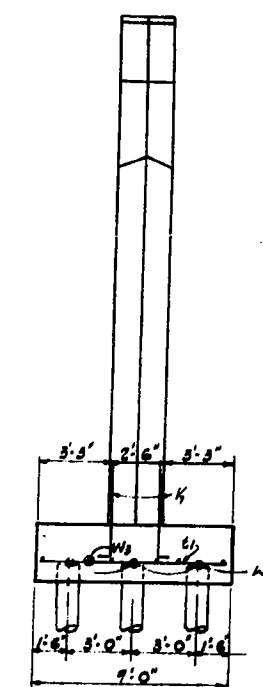
METAL PILE SHOE
(Total number req'd. = 112)



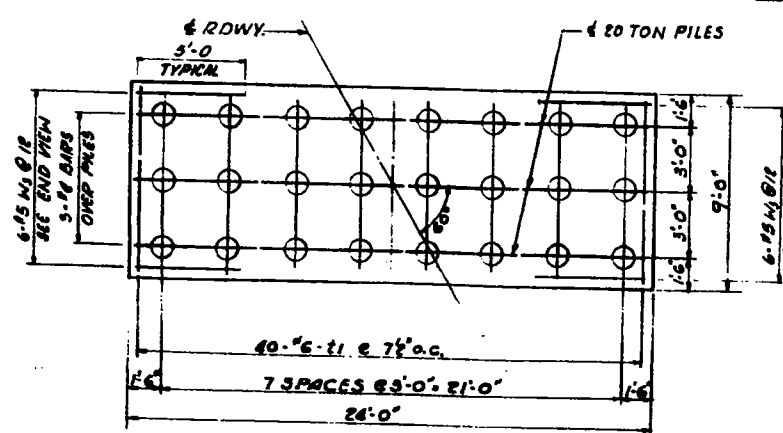
DIMENSIONS



REINFORCEMENT



END VIEW

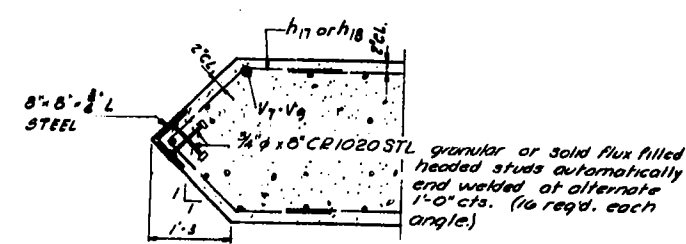


FOUNDATION PLAN

ELEVATION
SCALE: 1" = 1'-0"

PILE DATA
TYPE: UNTREATED
CAPACITY: 20 TONS
NO. REQUIRED: 48
EST. LENGTH: 25 FT.
EACH PILE SHOD WITH
A METAL SHOE

NOTES:
FOR GENERAL NOTES SEE SHT. 2
FOR REINF. SCHEDULE SEE SHT. 13



SECTION B-B

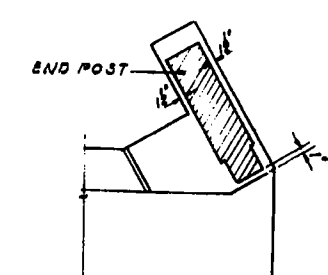
COST OF FURNISHING & INSTALLING STEEL
STARTING SHALL BE INCIDENTAL TO CLASS 'X' CONCRETE

BILL OF MATERIAL

ITEM	UNIT	TOTALS		TOTAL
		W. BOUND	E. BOUND	
CLASS X CONCRETE	CU. YDS.	66.7	66.7	133.4
REINFORCEMENT BARS	LBS.	5367	5367	10734
UNTREATED PILES - UP TO 25'	LIN. FT.	600	600	1200
TEST PILES (TIMBER)	EACH	1	-	1
METAL SHOES	EACH	24	24	48
CLASS 'B' EXCAVATION	CU. YDS.	62	62	124

ILLINOIS DIVISION OF HIGHWAYS
ROCKFORD BYPASS
P.A. ROUTE 104
PROJECT: _____ SECTION: SS
WINNEBAGO COUNTY
PIER 1
Designed By: L.P. Drawn By: P.L. Checked By: L.P. Date: 11-11-51

ILLINOIS DIVISION OF HIGHWAYS	
ROCKFORD BYPASS	
F.A. ROUTE 164	
PROJECT _____	SECTION 02
WINNEBAGO COUNTY	
AMOUNT _____	
AMOUNT _____	
Contract No. 67	Drawn By P.H.
Contract No. 67	Drawn By P.H.



DETAIL 'B'

I  **2**
ABUTMENT "2" N.S. RDNY.

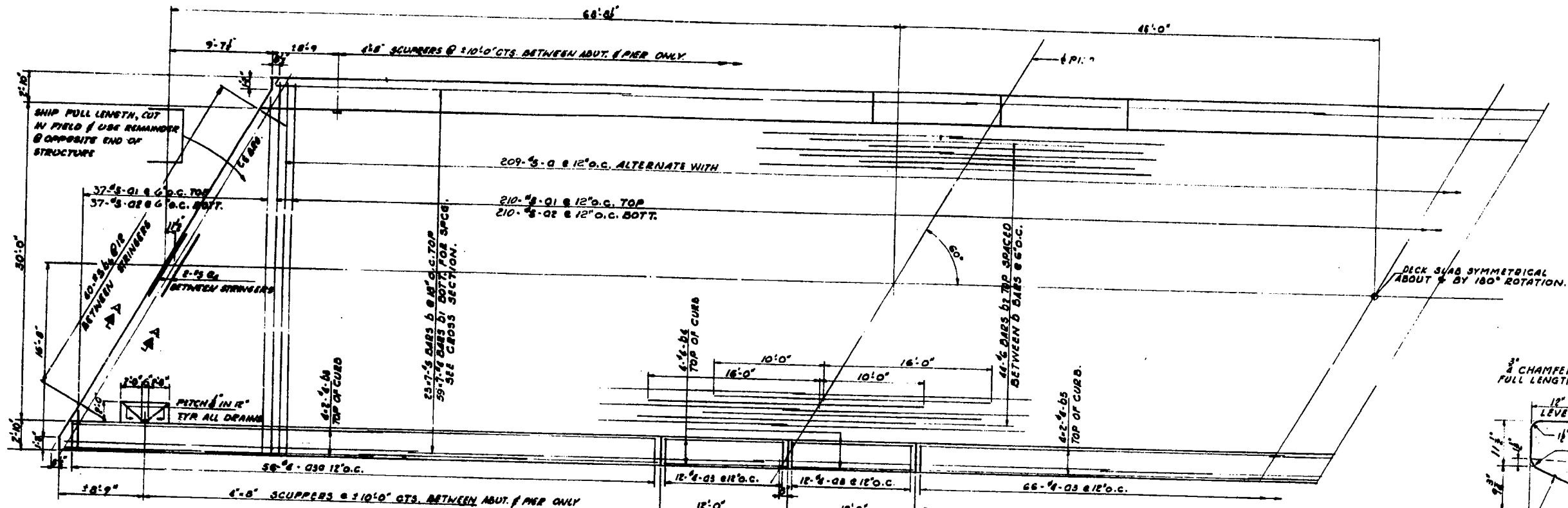
I  **3**
ABUTMENT "1" E.S. RDNY.



ITEM	UNIT	TOTALS		TOTAL
		ADUT. I.P.D.	ADUT. H.W.	
CLASS X CONCRETE	CU.YDS	43.1	43.1	86.2
REINFORCEMENT BARS	LB.	2350	2350	4700
CONCRETE PILES	LIN.FT.	650	650	1300

ILLINOIS DIVISION OF HIGHWAYS			
ROCKFORD BYPASS			
E. A. ROUTE 154			
PROJECT _____		SECTION 02	
WHEELABAGO		COUNTY	
ABUTMENT 1		E. A. ROUTE	
ABUTMENT 2		W. A. ROUTE	
Designed by <u>ELP</u>	Drawn by <u>EL</u>	Checked by <u>EL</u>	
Checked by <u>EL</u>	Reviewed by <u>EL</u>	Approved by <u>EL</u>	

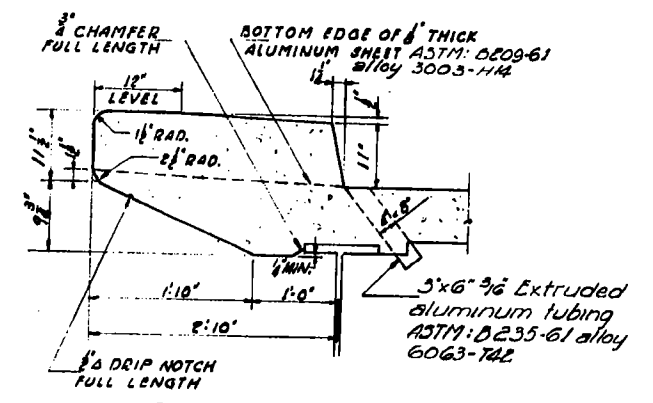
ROUTE	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
PA 104	22	WINNEBAGO	2	1
STA		TO STA		
200+00.00		200+00.00		



REINFORCING PLAN
SCALE 1/8" = 1'-0"

ORDER OF 1 & 2 BARS FULL LENGTH CUT IN FIELD & USE REMAINDER IN OPPOSITE END OF STRUCTURE.

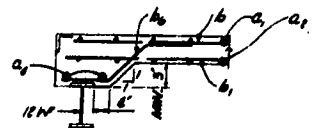
BARS DESIGNATED b1, b2 & b3 SHALL NOT PASS THRU CONSTRUCTION JOINTS IN CURB. BARS DESIGNATED 23-7-43 BARS INDICATES THAT THERE ARE 23 ROWS AND EACH ROW CONTAINS 7 LENGTHS OF BARS.



CURB DETAIL

NOTES

FOR GENERAL NOTES SEE SH. 2
METHOD OF DETERMINING FILLET HEIGHTS 'L'
AFTER ALL STRUCTURAL STEEL HAS BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES OF THE BEAMS SHALL BE TAKEN AT INTERVALS NOT TO EXCEED 10 FT. FROM THESE ELEVATIONS SUBTRACT THE INCREMENT OF DEFLECTION FOR THESE POINTS, DETERMINED FROM THE D.L. DEFLECTION DIAGRAM. THE ELEVATIONS SO OBTAINED SUBTRACTED FROM THE THEORETICAL GRADE ELEVATIONS, MINUS SLAB THICKNESS, EQUALS THE FILLET HEIGHTS ABOVE TOP OF BEAM.
FOR REINFORCING SCHEDULE SEE SHEET 15
FOR HANDRAIL DETAILS SEE SHEET 16



SECTION A-A
SCALE 1/4" = 1'-0"

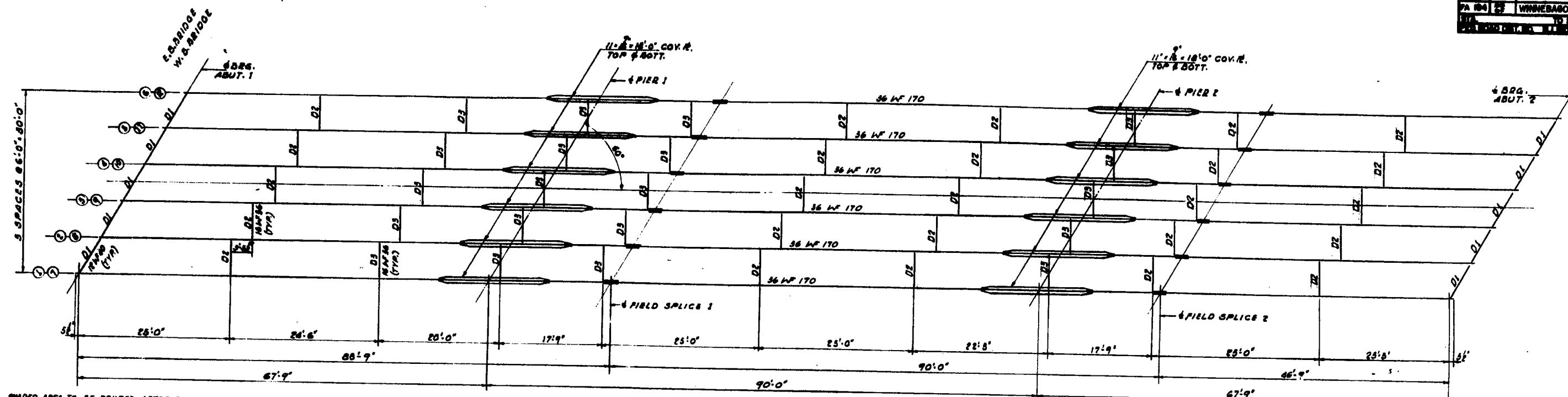
BILL OF MATERIAL

ITEM	UNIT	TOTALS	TOTAL
CLASS X CONCRETE	CU. YDS	223.3	223.3
REINFORCEMENT BARS	LBS.	46,855	46,855
STRUCTURAL STEEL	LBS.	274,680	274,680

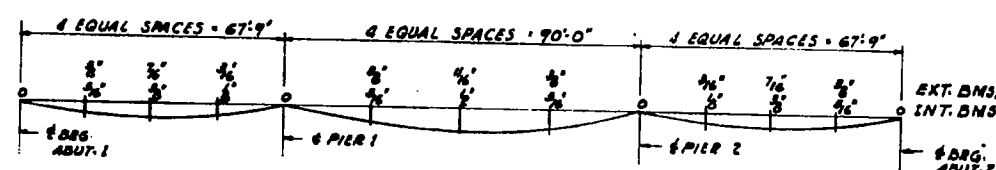
ILLINOIS DIVISION OF HIGHWAYS
ROCKFORD BYPASS
P. A. ROUTE 104
PROJECT: _____ SECTION: 02
WINNEBAGO COUNTY
DECK PLAN

CROSS SECTION
SCALE 1/4" = 1'-0"

Revised 6/1/62 Bottom Steel (Reinforcing) changed to 6" x 12" x 1/2" (from 5" x 12" x 1/2")
Typical spacing of 1/2" bars changed from 12" to 10" (from 12" to 10")
Quantity of 1/2" bars changed from 46,855 to 46,870 (from 46,855 to 46,870)
In CURB DETAIL chgd. to new specification the Aluminum sheet 23-7-43

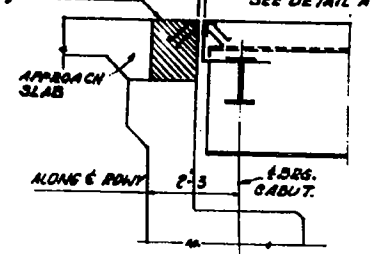


FRAMING PLAN
SCALE 1" = 1'-0"

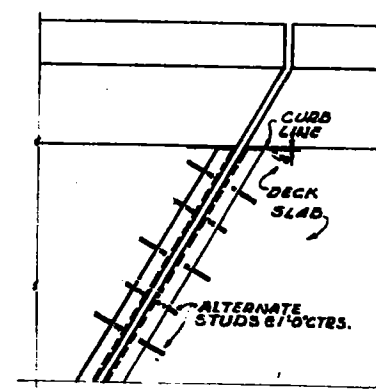


DEAD LOAD DEFLECTION DIAGRAM
FOR SLAB ONLY

SHADED AREA TO BE POURED AFTER SUPER-STRUCTURE FORMS HAVE BEEN REMOVED. QUANTITIES FOR CLASS "X" CONCRETE FOR THIS AREA IS INCLUDED IN 12 E307F QUANTITIES FOR ABUTMENT ENT. 819

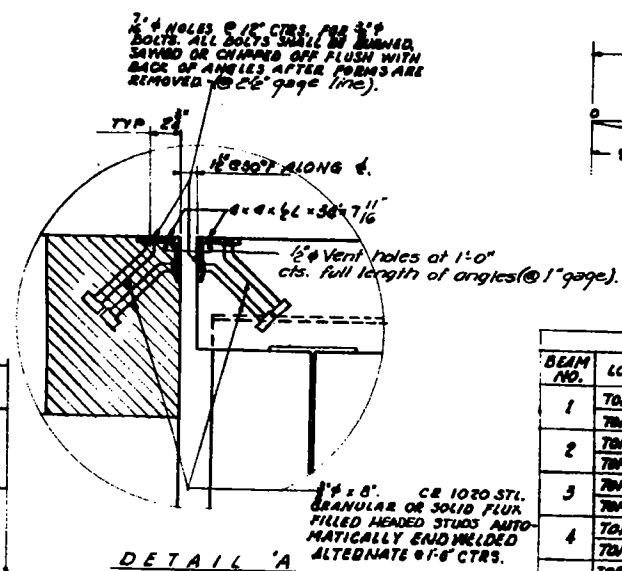


SECTION



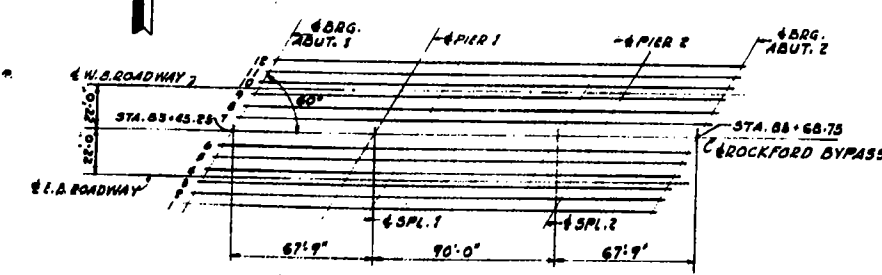
PLAN

EXPANSION JOINT DETAILS

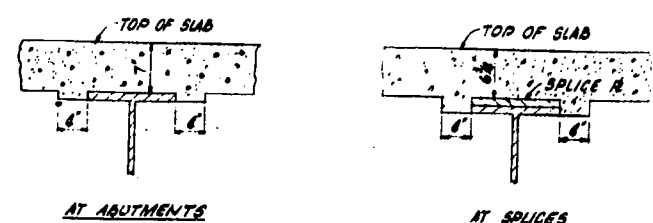


DETAIL 'A'

BEAM NO.	LOCATIONS	ELEVATIONS					
		4 BRG. ABUT. 1	6 BRG. PIER 1	4 FIELD SPICES 1	4 BRG. PIER 2	4 FIELD SPICES 2	4 BRG. ABUT. 2
1	TOP OF SLAB	739.73	739.62	739.59	739.60	739.66	739.57
	TOP OF BEAM	739.14	739.01	738.97	738.85	738.82	738.78
2	TOP OF SLAB	739.84	739.73	739.70	739.69	739.66	739.68
	TOP OF BEAM	739.26	739.12	739.09	738.96	738.93	738.89
3	TOP OF SLAB	739.90	739.79	739.75	739.65	739.61	739.54
	TOP OF BEAM	739.31	739.16	739.13	739.02	738.90	738.85
4	TOP OF SLAB	739.89	739.78	739.75	739.66	739.61	739.53
	TOP OF BEAM	739.31	739.17	739.13	739.01	738.97	738.92
5	TOP OF SLAB	739.83	739.71	739.68	739.57	739.54	739.46
	TOP OF BEAM	739.24	739.10	739.06	738.94	738.91	738.86
6	TOP OF SLAB	739.30	739.39	739.36	739.48	739.41	739.34
	TOP OF BEAM	738.72	738.82	738.78	738.82	738.79	738.76
7	TOP OF SLAB	739.69	739.80	739.84	739.64	739.40	739.33
	TOP OF BEAM	739.10	738.97	738.98	738.61	738.78	738.74
8	TOP OF SLAB	739.80	739.69	739.66	739.65	739.61	739.44
	TOP OF BEAM	739.22	739.08	739.06	738.92	738.85	738.86
9	TOP OF SLAB	739.86	739.75	739.73	739.61	739.51	739.49
	TOP OF BEAM	739.27	739.13	739.09	738.97	738.94	738.91
10	TOP OF SLAB	739.88	739.76	739.71	739.60	739.56	739.49
	TOP OF BEAM	739.27	739.13	739.09	738.97	738.93	738.91
11	TOP OF SLAB	739.78	739.67	739.64	739.63	739.50	739.42
	TOP OF BEAM	739.20	739.06	739.02	738.90	738.87	738.84
12	TOP OF SLAB	739.66	739.55	739.52	739.41	739.37	739.30
	TOP OF BEAM	739.03	738.94	738.90	738.78	738.75	738.72



KEY FRAMING PLAN



AT ABUTMENTS

AT SPICES

I-BEAM EMBEDMENT DETAILS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES
3.	GENERAL NOTES
4.	EXISTING PLAN & CROSS SECTION
5.	DECK EXISTING REPAIRS SURVEY
6.	DECK DELAMINATION SURVEY
7-12.	TRAFFIC CONTROL PLANS
13.	DISTRICT STANDARDS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS
PLANS FOR
BRIDGE DECK WEARING SURFACE
REMOVAL AND REPLACEMENT
SN 101-0073 & 101-0074
CARRYING US 20 OVER THE KISHWAUKEE RIVER
FAP 525 (US 20), SECTION (6B)M
WINNEBAGO COUNTY

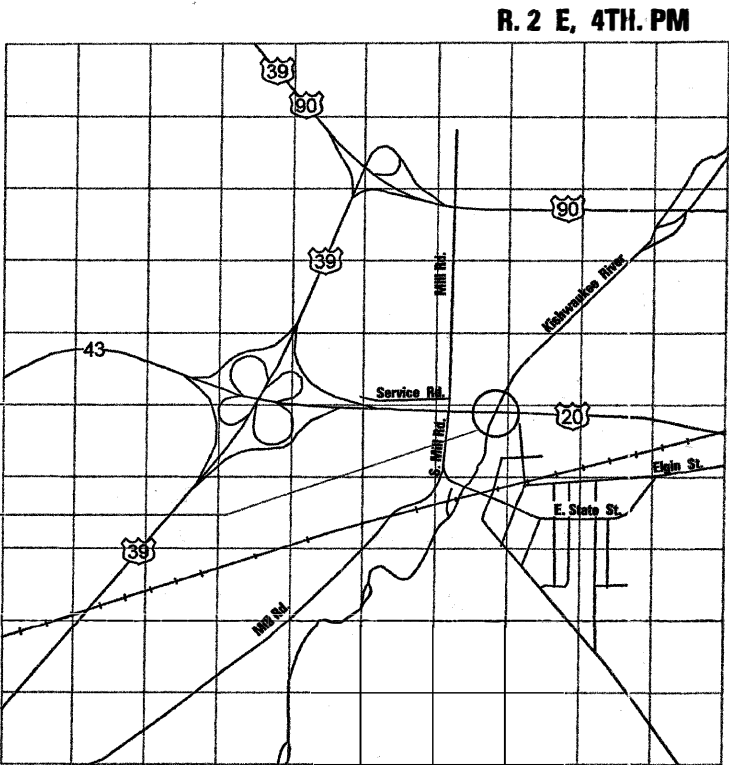
64D74

STANDARDS

- 701101-01 Off-Road Operations, Multilane, 4.5 m (15') to 600 mm (24") From Pavement Edge
701400-02 Approach to Lane Closure, Freeway/Expressway
701402-06 Lane Closure, Freeway/Expressway, with Barrier
701406-04 Lane Closure, Freeway/Expressway, Day Operations Only
701411-04 Lane Closure, Multilane, at Entrance or Exit Ramp, for Speeds > 45 MPH
701421-01 Lane Closure, Multilane, Day Operations Only, for Speeds > 45 MPH to 55 MPH
701423-02 Lane Closure, Multilane, with Barrier, for Speeds > 45 MPH to 55 MPH
701426-02 Lane Closure, Multilane, Intermittent or Moving Operation, for Speeds > 45 MPH
701901 Traffic Control Devices
704001-04 Temporary Concrete Barrier
720011 Metal Posts for Signs, Markers and Delineators
728001 Telescoping Steel Sign Support
729001 Applications of Types A and B Metal Posts (For Signs & Markers)
780001-01 Typical Pavement Markings

PROJECT LOCATION
INCLUDES BRIDGE DECK WEARING SURFACE
REMOVAL AND REPLACEMENT
STR. NO. 101-0073 & 101-0074 AT STA. 84+88.30

T 44 N
T 43 N



JULIE 1-800-892-0123

DISTRICT 2

TOWNSHIP: CHERRY VALLEY

CONTRACT NO. 64D74

JOB NO. D-92-125-07 / C-92-126-07

PLANS PREPARED BY: SOODAN & ASSOCIATES, INC.
100 NORTH LASALLE ST., SUITE 1800
CHICAGO, ILLINOIS 60602



MOHAMMED SALEEM
ILLINOIS LICENSED
STRUCTURAL ENGINEER
NO. 081-006145
LICENSE EXP. 11-30-08

64D74

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 20	(6B)M	WINNEBAGO	13	1

D-92-125-07
C-92-126-07



FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
DESIGN SPEED : 65 MPH
POSTED SPEED : 65 MPH
ADT : 20000 (2006)
PV : 60%
SU : 6%
MU : 6%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 1-25-08
George F. Renna
DEPUTY DIRECTOR OF HIGHWAYS, DESIGN ENGINEER
March 21, 2008
Eric E. Harnett
Interim ENGINEER OF DESIGN AND ENVIRONMENT
March 21, 2008
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 20	6B/M	WINNEBAGO COUNTY	13	2
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT • 64074	

SUMMARY OF QUANTITY

SFTY-2A
100% STATE

CODE NO.	ITEM	UNIT	QUANTITY
Z0006220	BRIDGE DECK HYDROSCARIFICATION 2 1/4"	SQ YD	1,463
50300260	BRIDGE DECK GROOVING	SQ YD	1,366
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	1
67100100	MOBILIZATION	L SUM	1
70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1
70100805	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	L SUM	1
* 70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	21,030
70400100	TEMPORARY CONCRETE BARRIER	FOOT	700
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1400
* 78001110	PAINT PAVEMENT MARKING-LINE 4"	FOOT	5,000
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1,485
X0322185	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	1,463
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	8
* Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2
* Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	4
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	151
X0636700	CLEANING AND PAINTING BEARINGS	EACH	24

DESIGNED	M.R./M.A.
CHECKED	M.S./H.T.
DRAWN	R.K./M.A.
CHECKED	M.S./H.T./M.R.

*SPECIALTY ITEM

SUMMARY OF QUANTITIES	
US 20 OVER KISHWAUKEE RIVER	
FAP ROUTE 525 (US20), SECTION (6B)M	
WINNEBAGO COUNTY	
STATION 84+88.30	
STRUCTURE NO. 101-0073 & 101-0074	
SCALE: NONE	DATE: JANUARY, 2008
Soodan	
Soodan & Associates, Inc. 100 North LaSalle Street, Suite 1800 Chicago, Illinois 60602	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 20	(6B)M	WINNEBAGO COUNTY	13	3
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
CONTRACT * 64074				

SHEET NO. 1
4 SHEETS

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to routine variations. The Contactor 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 based upon the unit price bid for the work.

Engineer should record the deck repair areas in order to document as-built conditions for future reference.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Color of the paint used shall be Interstate Green, Munsell No. 7.5G 4/8.

SCOPE OF WORK

Utilizing staged construction remove & replace existing wearing surface with new Bridge Deck Latex Concrete Overlay, 2 1/4".
Clean & paint existing rocker bearing assembly at abutments.

DESIGNED	M.R./M.A.
CHECKED	M.S./H.T.
DRAWN	R.K./M.A.
CHECKED	M.S./H.T./M.R.

GENERAL NOTES

US 20 OVER KISHWAUKEE RIVER
FAP ROUTE 525 (US20), SECTION (6B)M
WINNEBAGO COUNTY
STATION 84+88.30
STRUCTURE NO. 101-0073 & 101-0074

SCALE: NONE DATE: JANUARY, 2008

Soodan

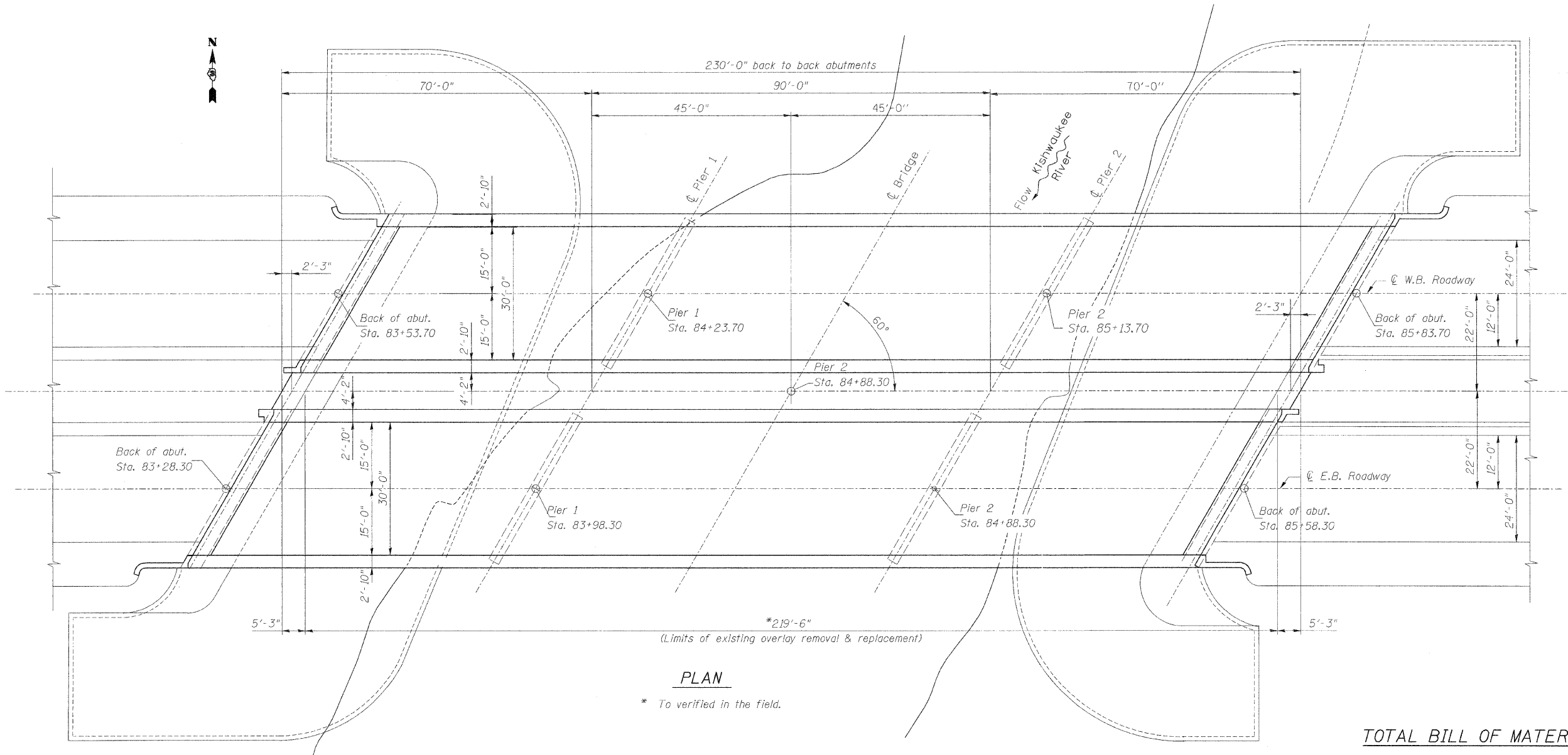
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 20	16BIM	WINNEBAGO COUNTY	13	4
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT-				

SHEET NO. 2
4 SHEETS

CONTRACT # 64074



TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Deck Hydroscarification, 2 1/4"	Sq. Yd.	1,463
Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq. Yd.	1,463
Cleaning And Painting Existing Bearings	Each	24
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	8
Bridge Deck Grooving	Sq. Yd.	732
Deck Slab Repair (Partial) (For Information Only)	Sq. Yd.	149

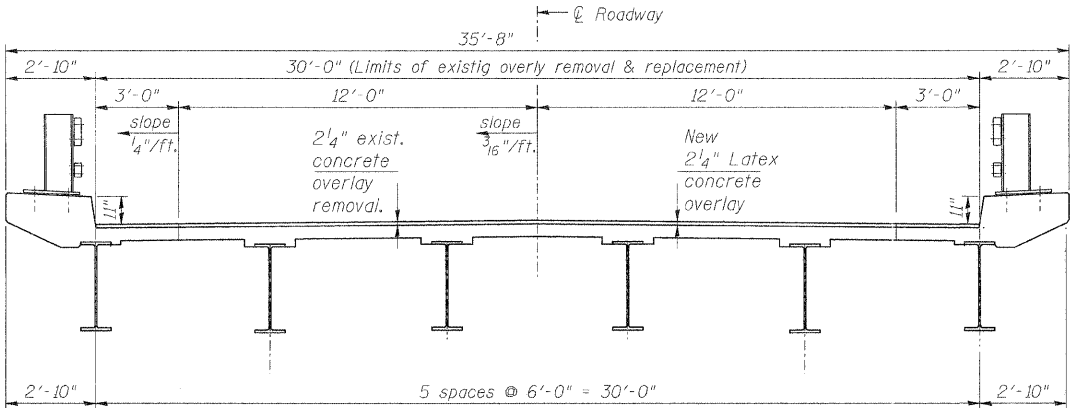
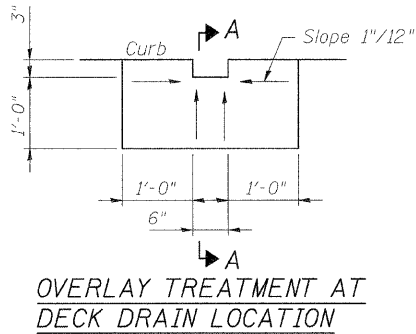
Notes:
1. "Cleaning & Painting existing bearing" is only for abutments.
There are 24 bearings altogether located at east & west abutments of Str. # 101-0073 & 101-0074.
See Special Provision "Cleaning & Painting Existing Steel Structures"

EXISTING PLAN & CROSS SECTION
TOTAL BILL OF MATERIAL
US 20 OVER KISHWAUKEE RIVER
FAP ROUTE 525 (US20), SECTION (6B)M
WINNEBAGO COUNTY
STATION 84+88.30
STRUCTURE NO. 101-0073 & 101-0074

SCALE: NONE DATE: JANUARY, 2008

Soodan

Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602



Note: 2'4" existing concrete overlay shall be removed and replaced with 2'4" Latex concrete overlay.

DESIGNED	M.R./M.A.
CHECKED	M.S./H.T.
DRAWN	R.K./M.A.
CHECKED	M.S./H.T./M.R.

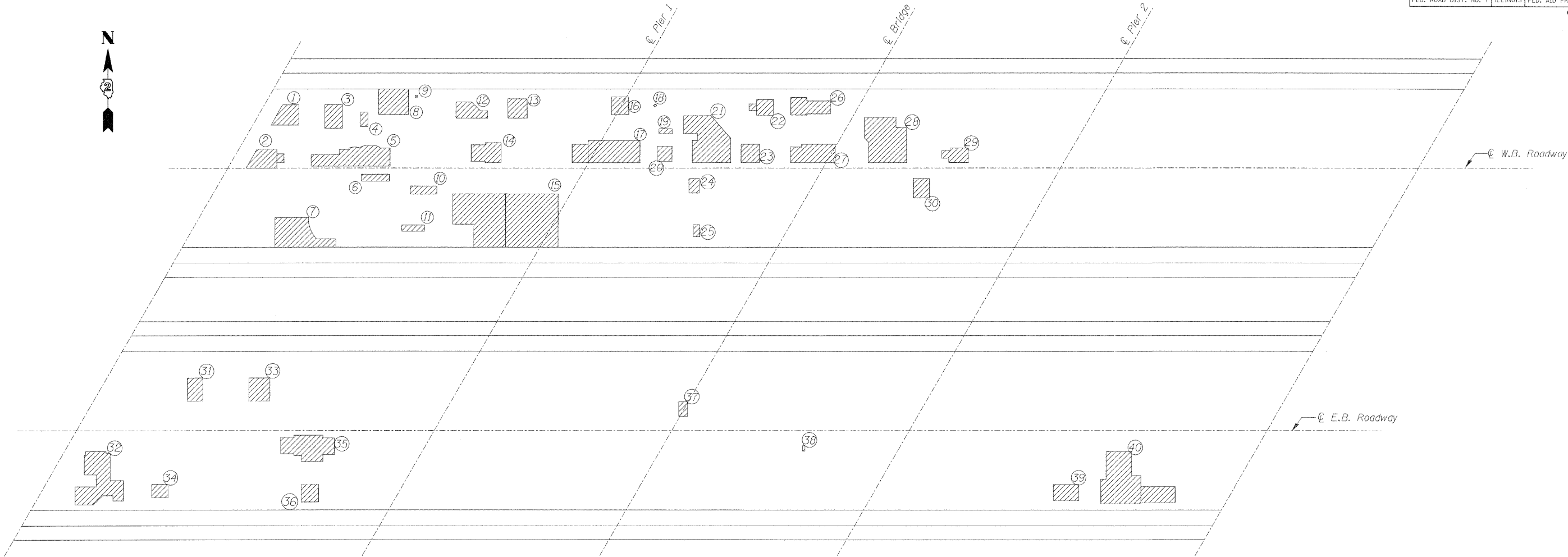
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 20	68IM	WINNEBAGO COUNTY	13	5
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

CONTRACT # 64074

SHEET NO. 3

4 SHEETS



DECK EXISTING REPAIRS SURVEY
(June 26 thru 27, 2007)

LEGEND
Existing Repairs

EXISTING REPAIRS
(For information only)

S.No	AREA (SF)	S.No	AREA (SF)
1.	16.0	21	4.0
2.	19.5	22	11.5
3.	14.8	23	12.25
4.	4.0	24	5.5
5.	46.0	25	3.0
6.	7.0	26	21.25
7.	45.5	27	28.7
8.	27.0	28	62.0
9.	0.2	29	12.2
10.	8.0	30	11.0
11	5.0	31	13.25
12.	15.0	32	55.0
13.	13.5	33	17.66
14.	20.0	34	7.7
15.	184.0	35	41.0
16.	11.0	36	11.0
17.	52.5	37	4.5
18.	0.2	38	0.5
19.	2.3	39	14.5
20.	8.0	40	81.0

DESIGNED	M.R./M.A.
CHECKED	M.S./H.T.
DRAWN	R.K./M.A.
CHECKED	M.S./H.T./M.R.

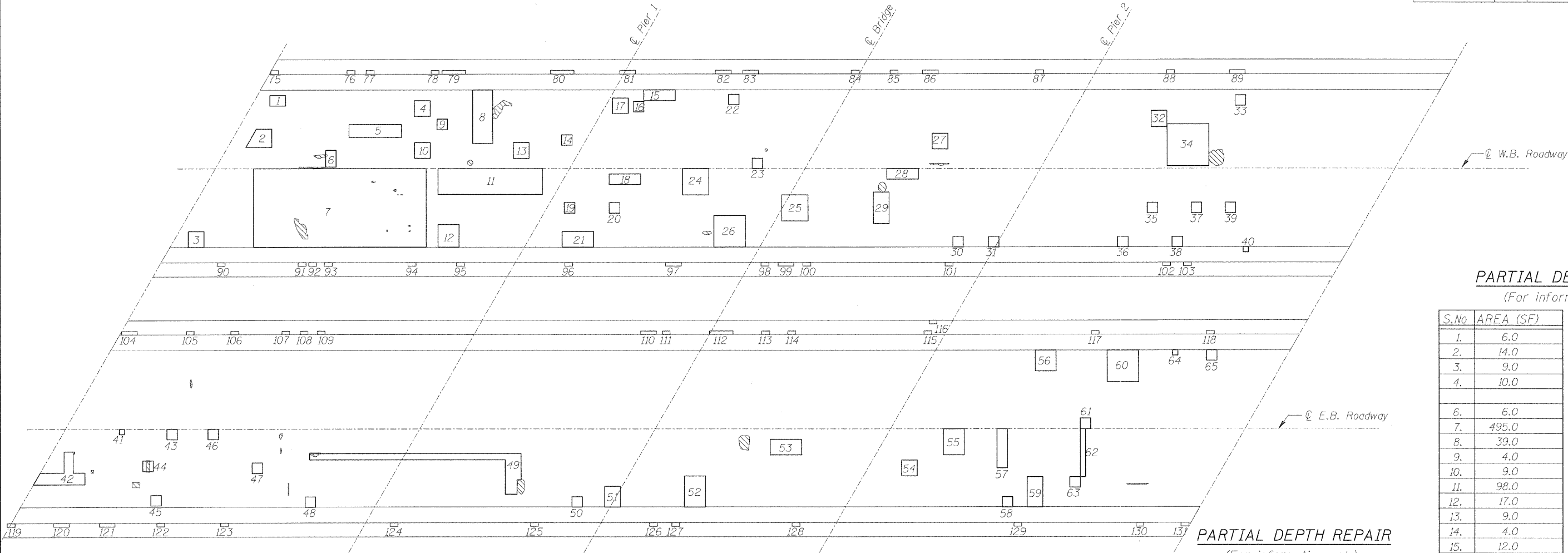
DECK EXISTING REPAIRS SURVEY
US 20 OVER KISHWAUKEE RIVER
FAP ROUTE 525 (US20), SECTION (68IM)
WINNEBAGO COUNTY
STATION 84+88.30
STRUCTURE NO. 101-0073 & 101-0074

SCALE: NONE
DATE: JANUARY, 2008

Soodan
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4
U.S. 20	6BIM	WINNEBAGO COUNTY	13	6	4 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		CONTRACT * 64074



DECK DELAMINATION SURVEY
(June 26 thru 27, 2007)

FULL DEPTH REPAIR

S.No	AREA (SF)
5.	24.0

LEGEND

* Spalled Area

PARTIAL DEPTH REPAIR
(For information only)

S.No	AREA (SF)	S.No	AREA (SF)
1.	6.0	33.	4.0
2.	14.0	34.	64.0
3.	9.0	35.	4.0
4.	10.0	36.	4.0
		37.	4.0
6.	6.0	38.	4.0
7.	495.0	39.	4.0
8.	39.0	40.	1.0
9.	4.0	41.	1.0
10.	9.0	42.	28.0
11.	98.0	43.	4.0
12.	17.0	44.	4.0
13.	9.0	45.	4.0
14.	4.0	46.	4.0
15.	12.0	47.	4.0
16.	4.0	48.	4.0
17.	9.0	49.	65.0
18.	12.0	50.	4.0
19.	4.0	51.	12.0
20.	4.0	52.	24.0
21.	18.0	53.	18.0
22.	4.0	54.	9.0
23.	4.0	55.	20.0
24.	25.0	56.	16.0
25.	25.0	57.	15.0
26.	36.0	58.	4.0
27.	9.0	59.	17.0
28.	12.0	60.	36.0
29.	18.0	61.	4.0
30.	4.0	62.	9.0
31.	4.0	63.	4.0
32.	9.0	64.	1.0
		65.	4.0

PARTIAL DEPTH REPAIR
(For information only)

S.No	AREA (SF)	S.No	AREA (SF)
75.	1.0	103.	1.0
76.	1.0	104.	2.0
77.	1.0	105.	1.0
78.	1.0	106.	1.0
79.	3.0	107.	1.0
80.	3.0	108.	1.0
81.	2.0	109.	1.0
82.	2.0	110.	2.0
83.	2.0	111.	1.0
84.	1.0	112.	3.0
85.	1.0	113.	1.0
86.	2.0	114.	1.0
87.	1.0	115.	1.0
88.	1.0	116.	1.0
89.	2.0	117.	1.0
90.	1.0	118.	1.0
91.	1.0	119.	1.0
92.	1.0	120.	2.0
93.	1.0	121.	2.0
94.	1.0	122.	1.0
95.	1.0	123.	1.0
96.	1.0	124.	1.0
97.	2.0	125.	1.0
98.	1.0	126.	1.0
99.	2.0	127.	1.0
100.	1.0	128.	1.0
101.	1.0	129.	1.0
102.	1.0	130.	1.0
		131.	1.0

DECK DELAMINATION SURVEY
US 20 OVER KISHWAUKEE RIVER
FAP ROUTE 525 (US20), SECTION (6B)M
WINNEBAGO COUNTY
STATION 84+88.30
STRUCTURE NO. 101-0073 & 101-0074

SCALE: NONE DATE: JANUARY, 2008
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

DESIGNED	M.R./M.A.
CHECKED	M.S./H.T.
DRAWN	R.K./M.A.
CHECKED	M.S./H.T./M.R.