

KANE AND KENDALL COUNTIES

BURTON BRIDGE

INDEX OF SHEETS

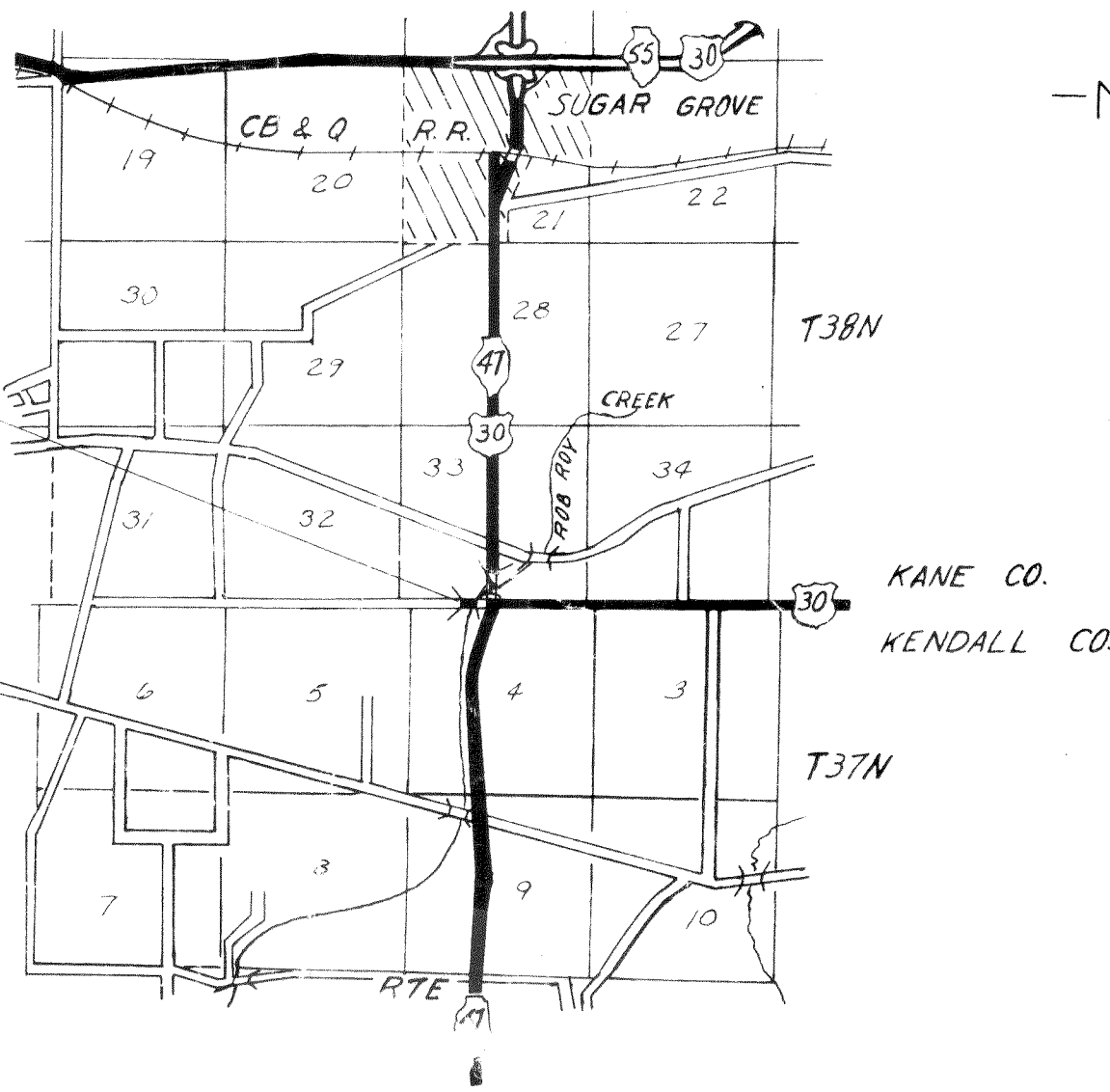
- 1 COVER SHEET
- 2-4 BRIDGE & PLANS
- 5 PLAN & PROFILE
- 6 STDS. 2113-1 & 2208-1
- 7 STD. 1971-3

SUMMARY OF QUANTITIES

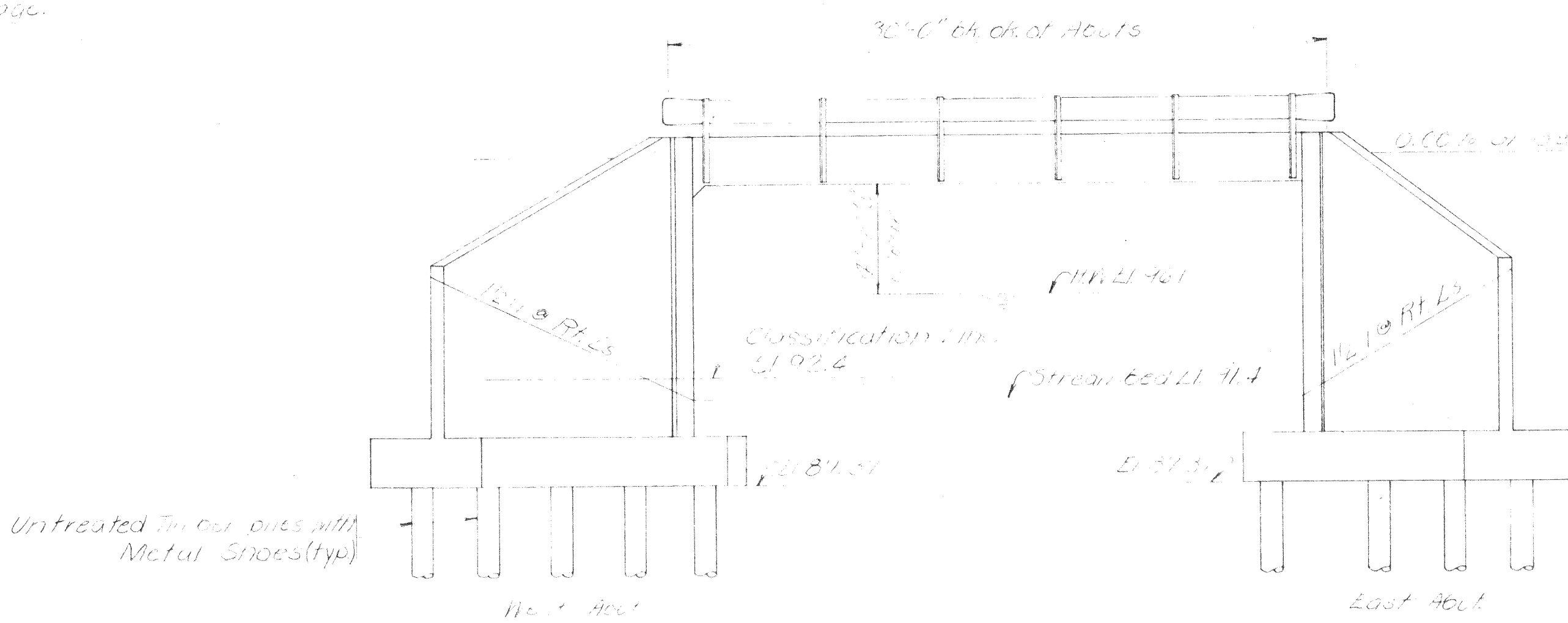
QUANTITIES	UNIT OF MEASURE	PAY ITEMS
144.7	CU.YDS.	CLASS X CONCRETE
14,700	LBS.	REINFORCEMENT BARS
54	LIN.FT.	METAL PLATE BRIDGE RAIL
1	EACH	NAME PLATES
1	EACH	TEST PILES (TIMBER)
1034	LIN.FT.	FURNISHING UNTREATED PILES UP TO 30 FEET
1034	LIN.FT.	DRIVING TIMBER PILES
47	EACH	METAL SHOES
1	EACH	REMOVAL OF EXISTING STRUCTURES
230	CU.YDS.	CLASS A EXCAVATION FOR STRUCTURES
205	CU.YDS.	CLASS B EXCAVATION FOR STRUCTURES

LAYOUT
APPROX. SCALE 1"=1 MILE

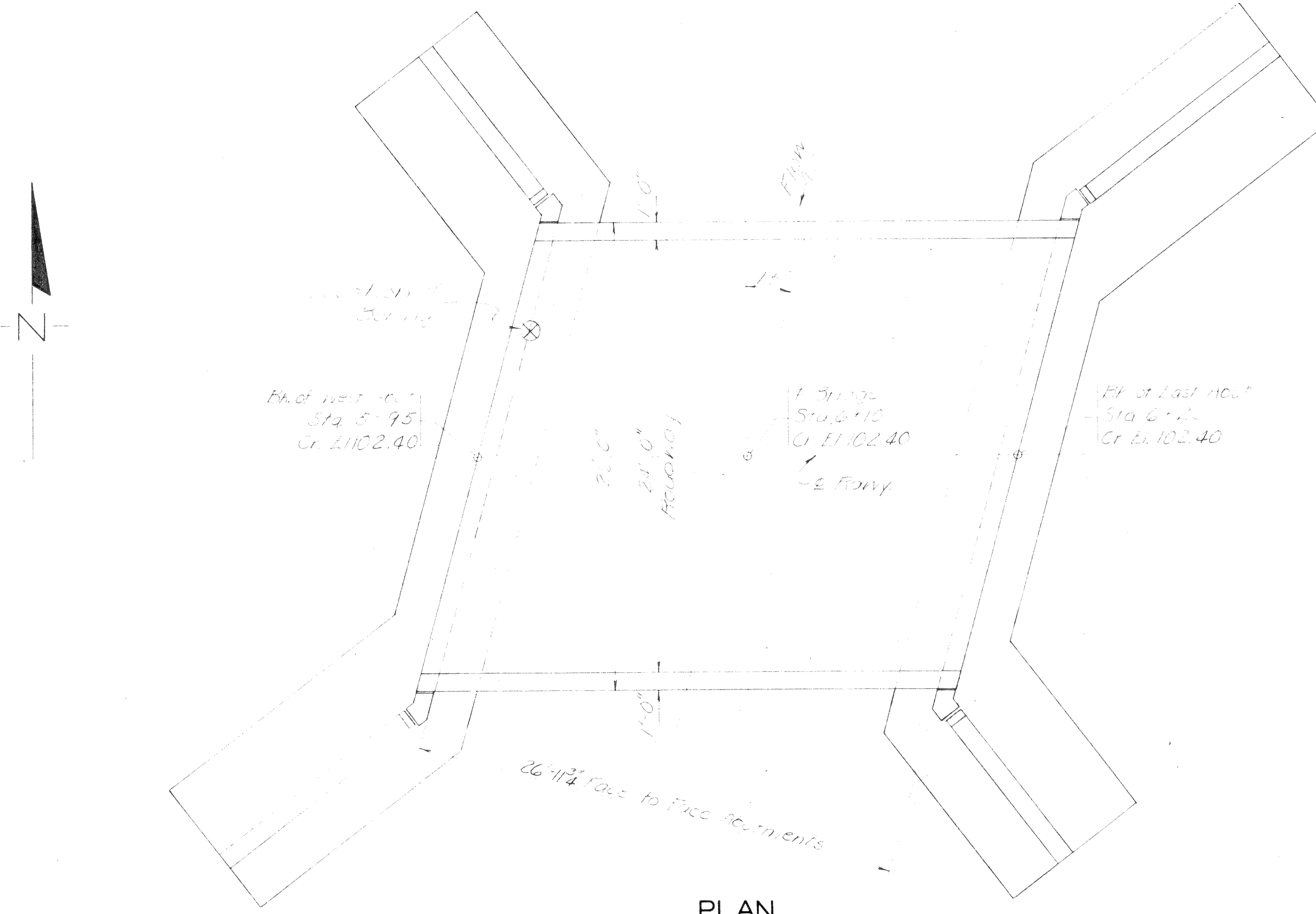
Burton Bridge includes the construction of a single span RC slab bridge on closed concrete abutments. 30' bk. bk. of abutments, 24' roadway, 1' curbs @ Sta. 6+10. Skew = 15°.



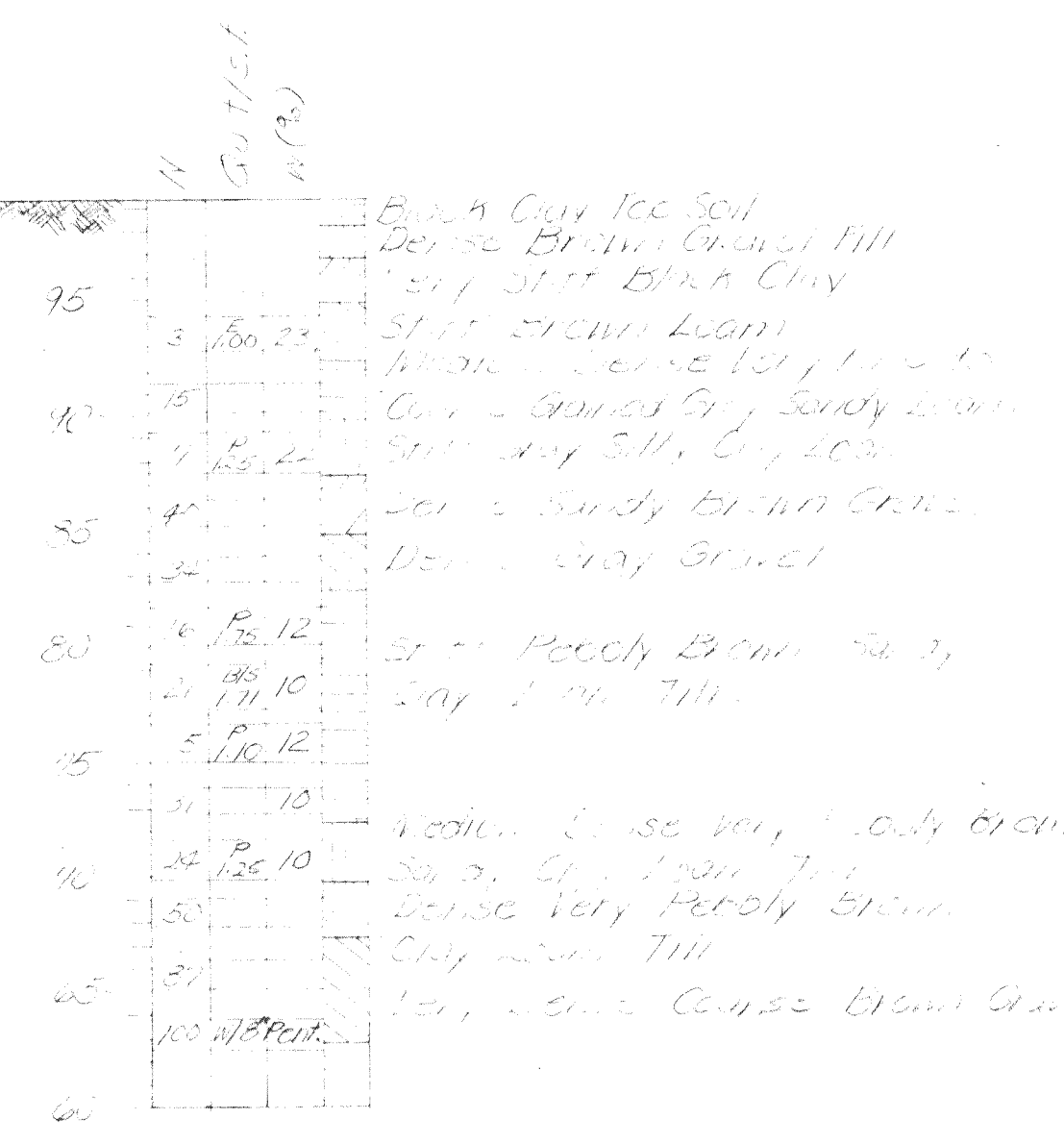
B.M. - Top of south end of pier - Bridge
on RTE 41. ELEV 95.33
Exist. Structure - 1 span, 10' x 20' deck,
roadway, framed deck
Substructure - Closed Steel Abutments
Contractor shall remove existing
structure at the time of construction.
No Salvage.



ELEVATION



PLAN



BORING

10' Blows per ft. to drive 2" G.L.
Soil: "Good" can be 12" with
140" hammer falling 30".
Q - Unconfined Compressive
Strength in tons per sq. ft.
W - Water Content - Percentage of
oven dry weight - %

GENERAL NOTES

Class X concrete shall be used throughout.
The concrete floor shall be finished in accordance with
Art 51.11 of the Standard Specifications, and shall be
poured in one continuous operation.
Curtains shall be poured monolithically with the slab.
The Contractor shall drive one test pile in a permanent
location in the East abutment before ordering the
remainder of the piles.
Boring is shown only as a guide for ciders in estimating
soil conditions which may be encountered in the work.
The backs of the abutments and wingwalls shall be
waterproofed in accordance with Art 51.21 of the
Standard Specifications.
No backfill or embankment shall be placed behind
the abutments until the floor slab is poured and
falsework is removed. See Art 50.10 of the Standard
Specifications.

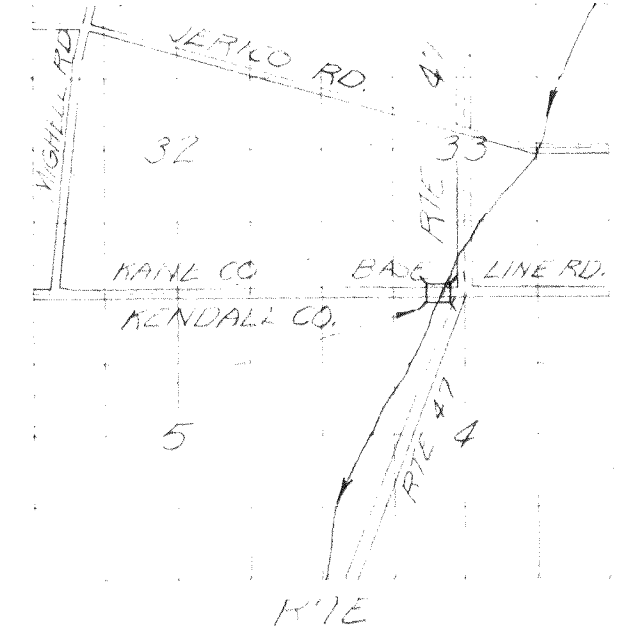
STATION 6+10
PROJ. NO. 100
BURTON BRIDGE BUILT 1967
KANE - KENDALL COUNTIES
LOADING HS15

LETTERING FOR NAME PLATE

See Spd 213-1

TOTAL BILL OF MATERIAL

ITEM	SUPLY	SUB	TOTAL
Class X Concrete	40.6	104.1	144.7
Reinforcing F. Bars	10.2	54.8	65.0
Metal Plate Bridge Rail	54	-	54
Name Plates	Each	1	1
Test Piles (Timber)	Each	1	1
Untreated Timber Piles	Ln Ft	1034	1034
Metal Shoes	Each	47	47
Removal of Existing Structures	Each	-	-
Class A Excavation for Structures	Cu Yds	-	230
Class B Excavation for Structures	Cu Yds	-	205



LOCATION SKETCH

DESIGN STRESSES

10,000 psi (Spec)
10,000 psi (Spec)
10,000 psi (Spec)
10,000 psi (Spec)
10,000 psi (Spec)
10,000 psi (Spec)

WATERWAY DATA

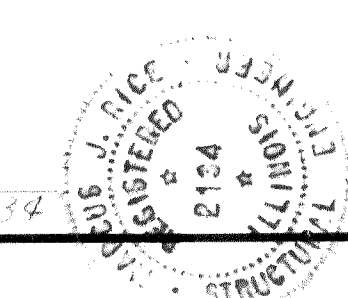
Drainage Area 3400 Acres
Flood Opening (10 yr) 125 Sq Ft
Present Opening 110 Sq Ft
Proposed Opening 127 Sq Ft

GENERAL PLAN & ELEVATION
BURTON BRIDGE

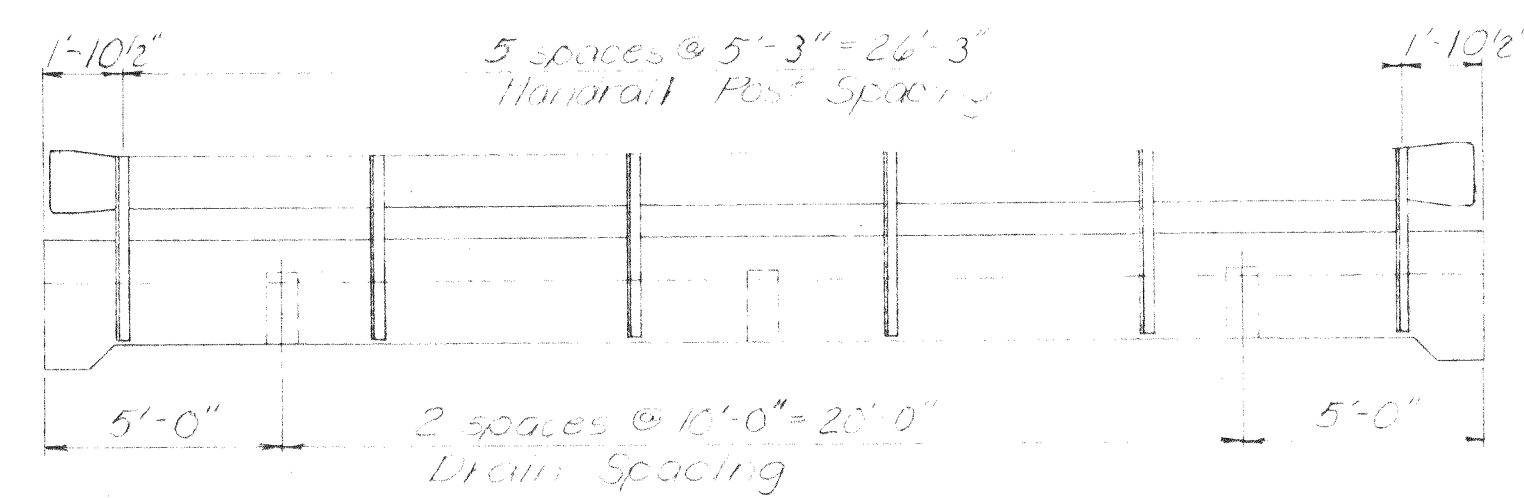
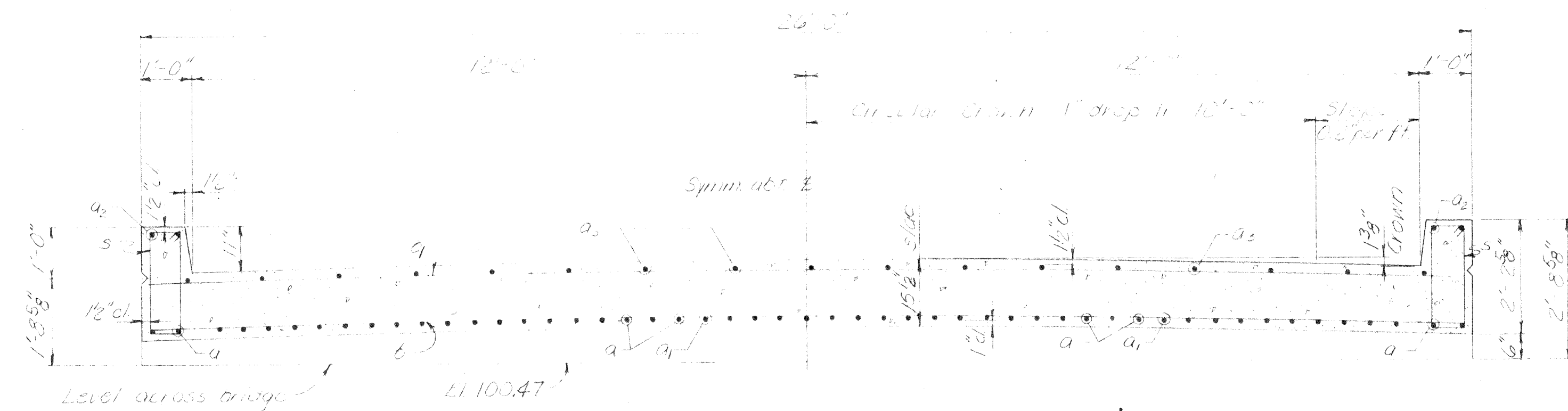
KANE - KENDALL COUNTIES
STATION 6+10

COLLINS AND RICE
CONSULTING ENGINEERS

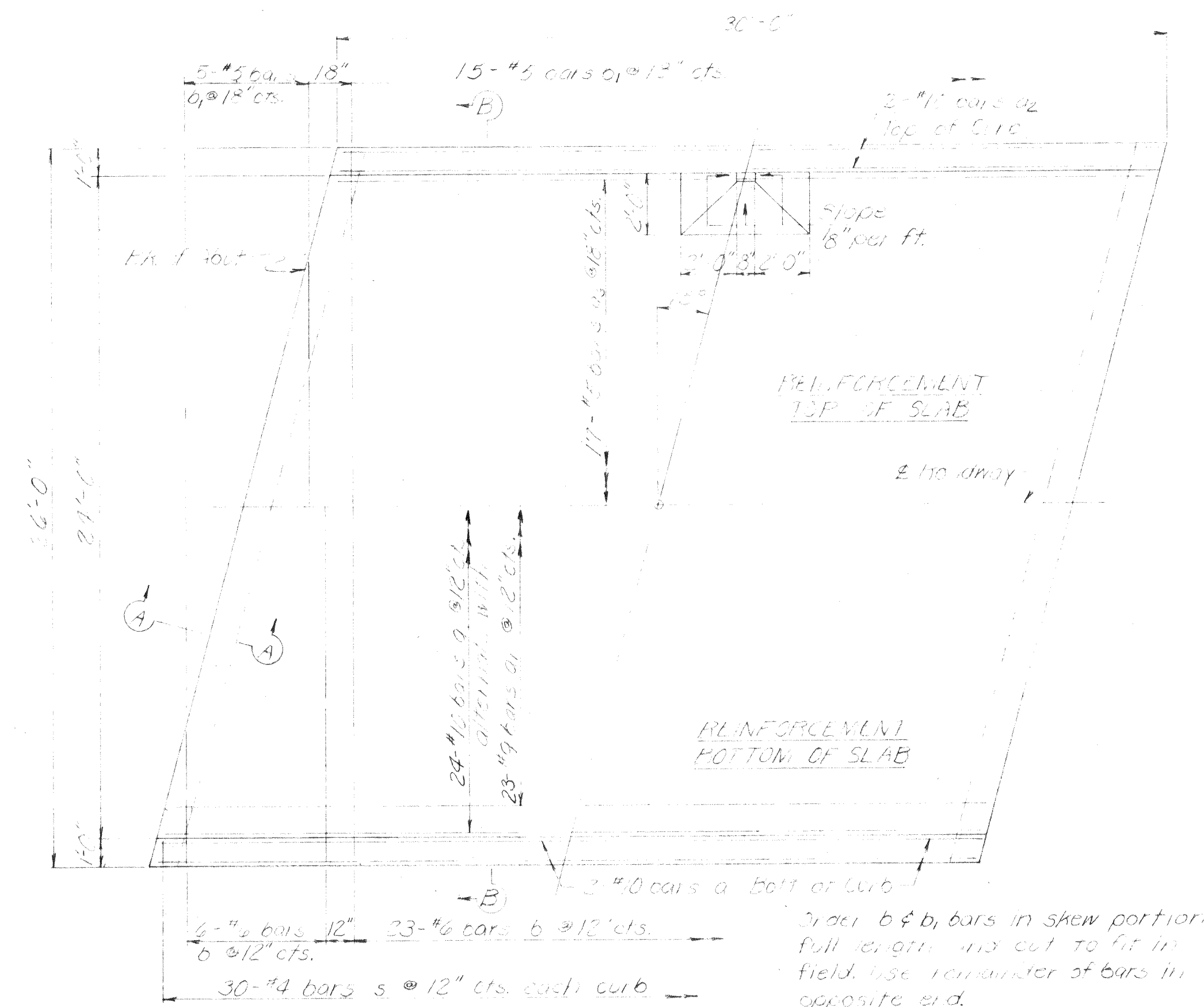
DESIGNED REG
DRAWN A.A.
CHECKED J.J.R.
DATE 1-20-66
NO. 384



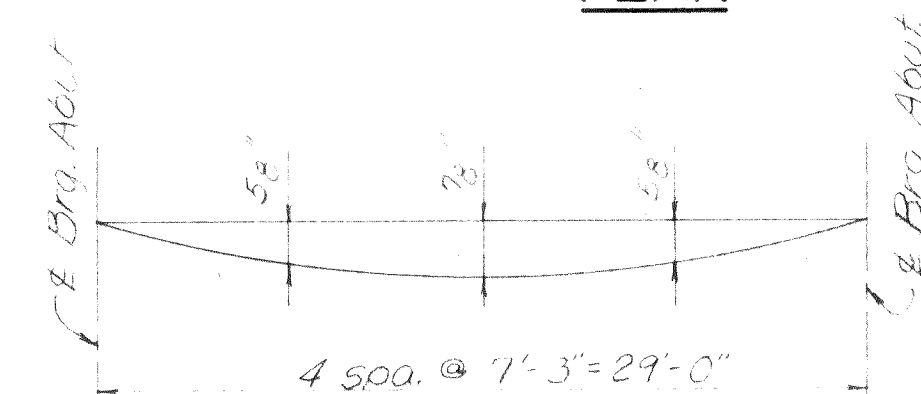
Marion J. Rice
Illinois Structural No 2134

ELEVATION

SECTION B-B

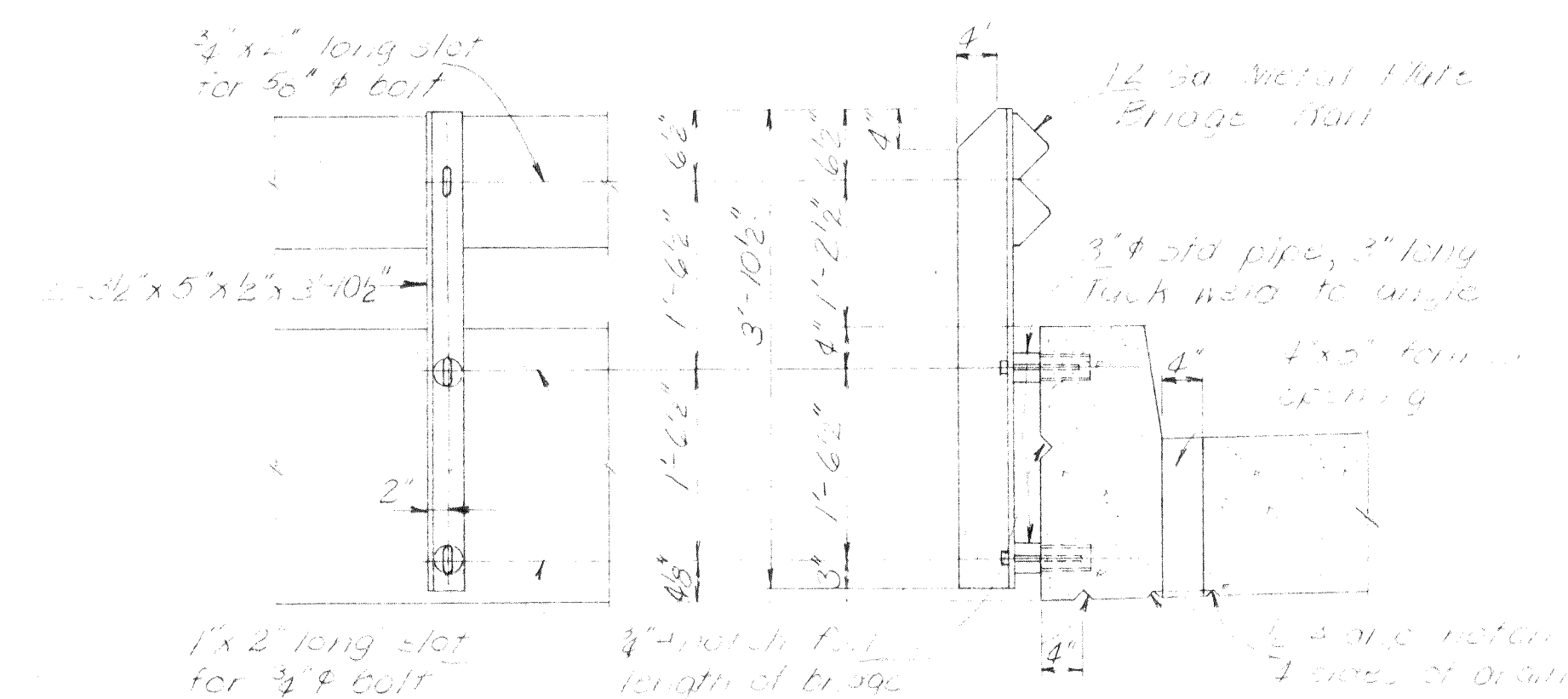


PLAN

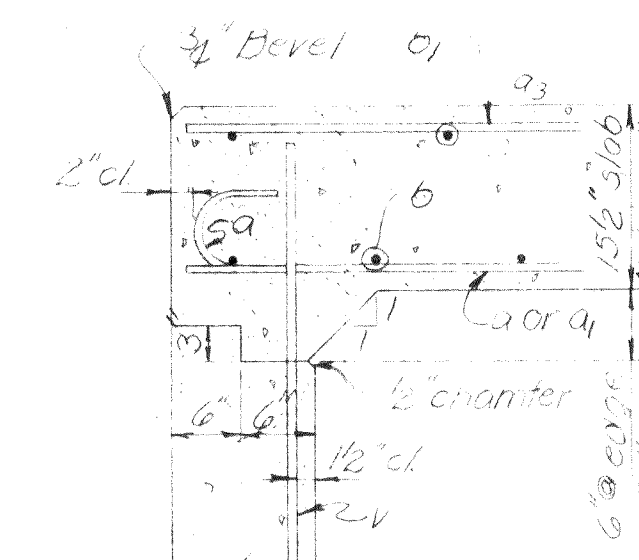


D.L. DEFLECTION DIAGRAM

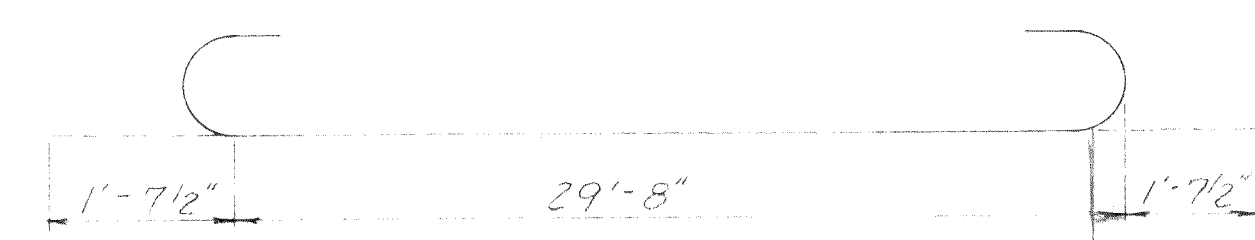
In addition to D.L. Deflection
the Contractor shall make
allowance for shrinkage and
settlement of falsework



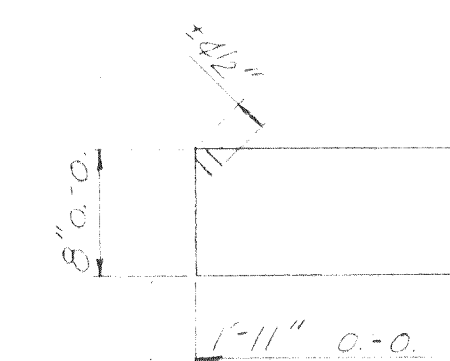
HANDRAIL AND DRAIN DETAIL



SECTION A-A



BAR a

BAR s

BILL OF MATERIAL
SUPERSTRUCTURE

BAR	NO.	SIZE	LENGTH	SHAPE
1	28	"10	32'-11"	
2	23	"9	29'-8"	
3	4	"10	29'-8"	
4	17	"5	29'-8"	
5	29	"6	25'-9"	
6	20	"5	25'-9"	
7	66	"4	5'-11"	
Class A Concrete			Cu Yds.	40.6
Reinforcement Bars			Lbs.	9,220
Metal Plate Bridge Rail			Lin. Ft.	54

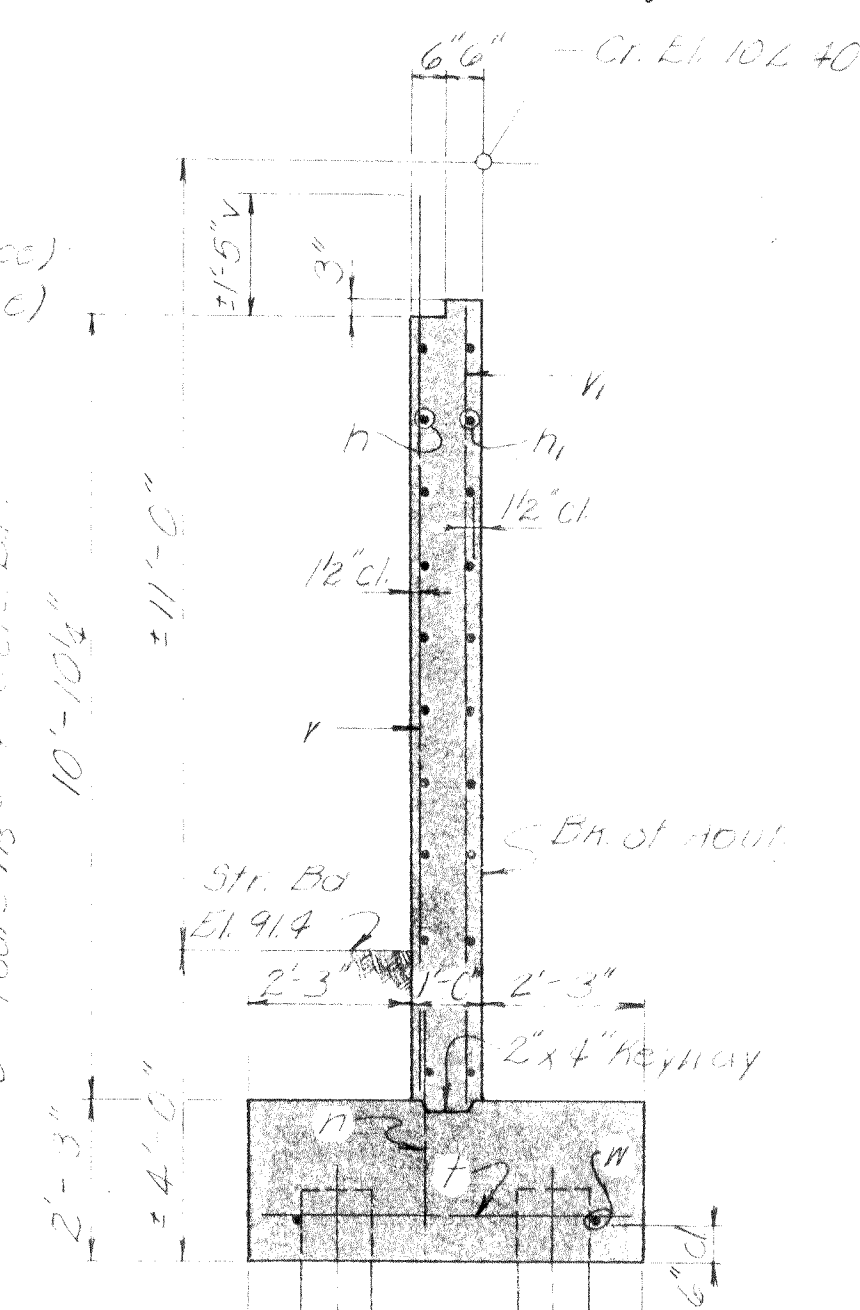
SUPERSTRUCTURE
BURTON BRIDGE

KANE - KENDALL COUNTIES
STATION 6 + 10

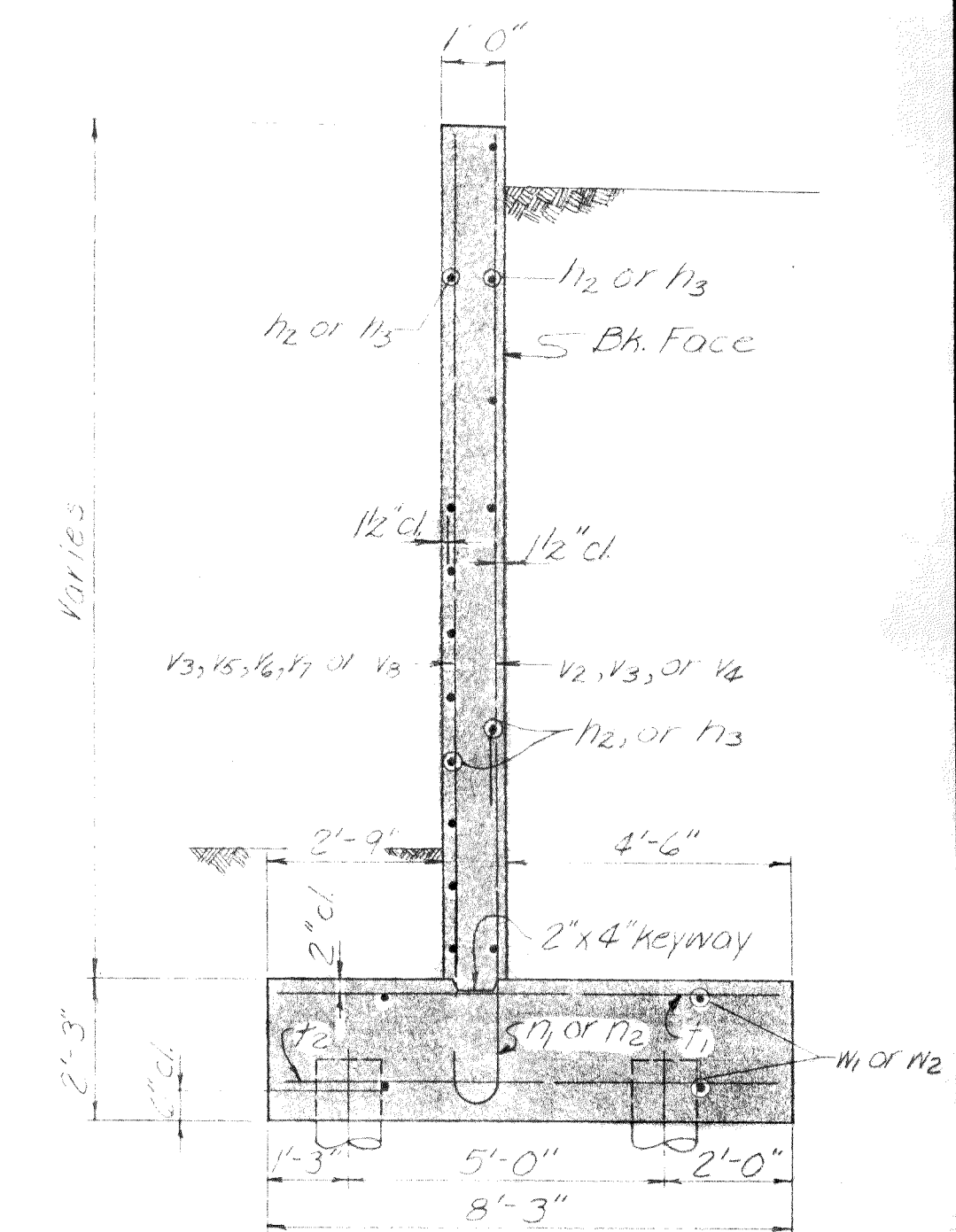
COLLINS AND RICE
CONSULTING ENGINEERS

DESIGNED REG
DRAWN J.W.

CHECKED *M.J.R.*
DATE *1-20-66* NO. *364*



SECTION B-B



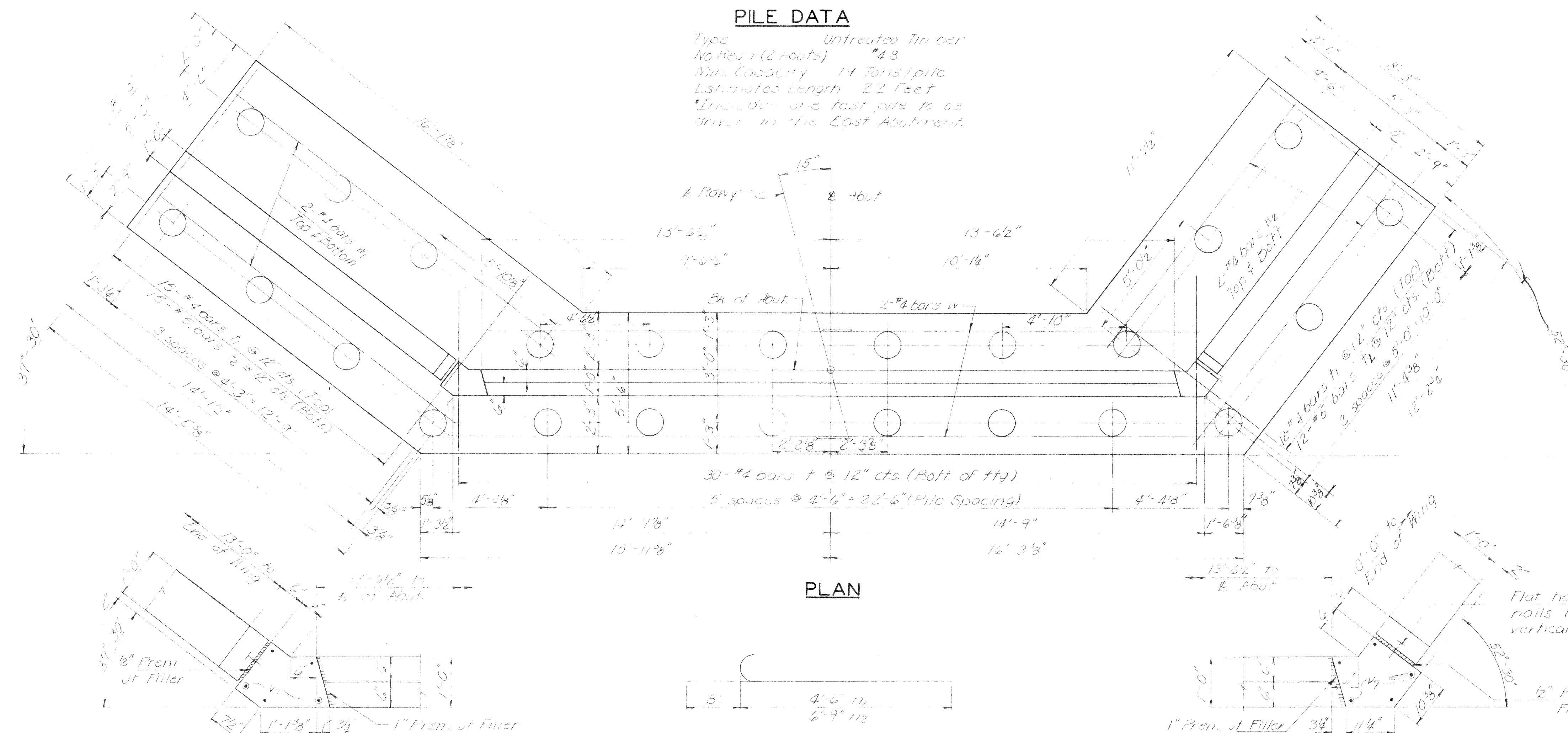
BILL OF MATERIAL 2 - ABUTMENTS

Class X Concrete	Cu Yds.	104.1
Reinforcement Bars	Lbs.	5,480
Unstressed Timber Piles	Lin. Ft.	10,34
Metal Shoes	Each	47
Test Piles (Timber)	Each	1

KANE - KENDALL COUNTIES
STATION 6 + 10

DESIGNED REG
DRAWN JW

CHECKED *M. J. R.*
DATE *1-20-66* NO. *364*



CORNER DETAILS

CORNER DETAILS

Flat head Corrient
nails 1" lg. @ 12" cts
vertically