

STATE OF ILLINOIS

DEPARTMENT OF PUBLIC WORKS AND BUILDINGS

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED

FEDERAL AID INTERSTATE HIGHWAY

SCALES

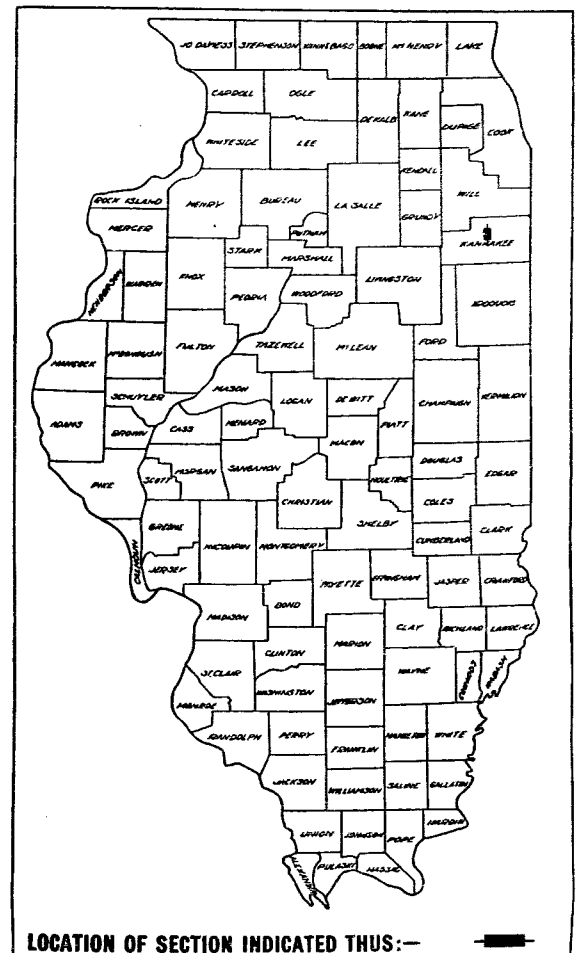
PLAN	1 INCH	40 FT.
PROFILE, HOR.	1 INCH	100 FT.
PROFILE, VERT.	1 INCH	10 FT.
CROSS-SECTIONS	1 INCH	5 FT.

F.A.I. RTE. 57 SEC. 46-3L KANKAKEE COUNTY
PROJECT I-57-6(96)313
C-93-021-69

FEDERAL-AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-3L	KANKAKEE	12	1

FED. ROAD DIV. NO. 4 ILLINOIS PROJECT I-57-6(96)313

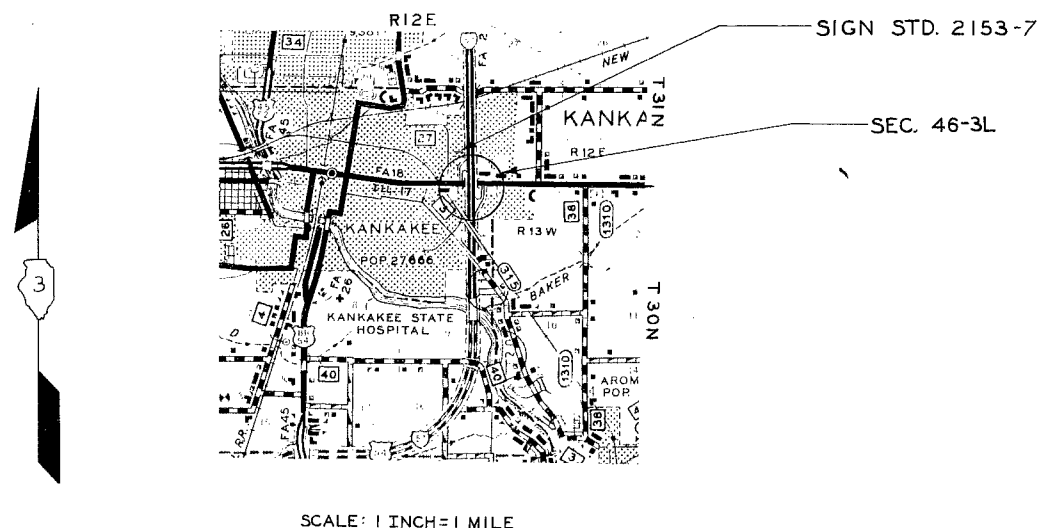
P-93-009-68



FAI. 57 1969 DHV 600-T-70

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

SUBMITTED: March 27, 1969
EXAMINED: March 27, 1969
PASSED: March 27, 1969
APPROVED: March 27, 1969
APPROVED: March 27, 1969

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:
DIVISION ENGINEER DATE

JOB NUMBER CONTRACT NO. 26048

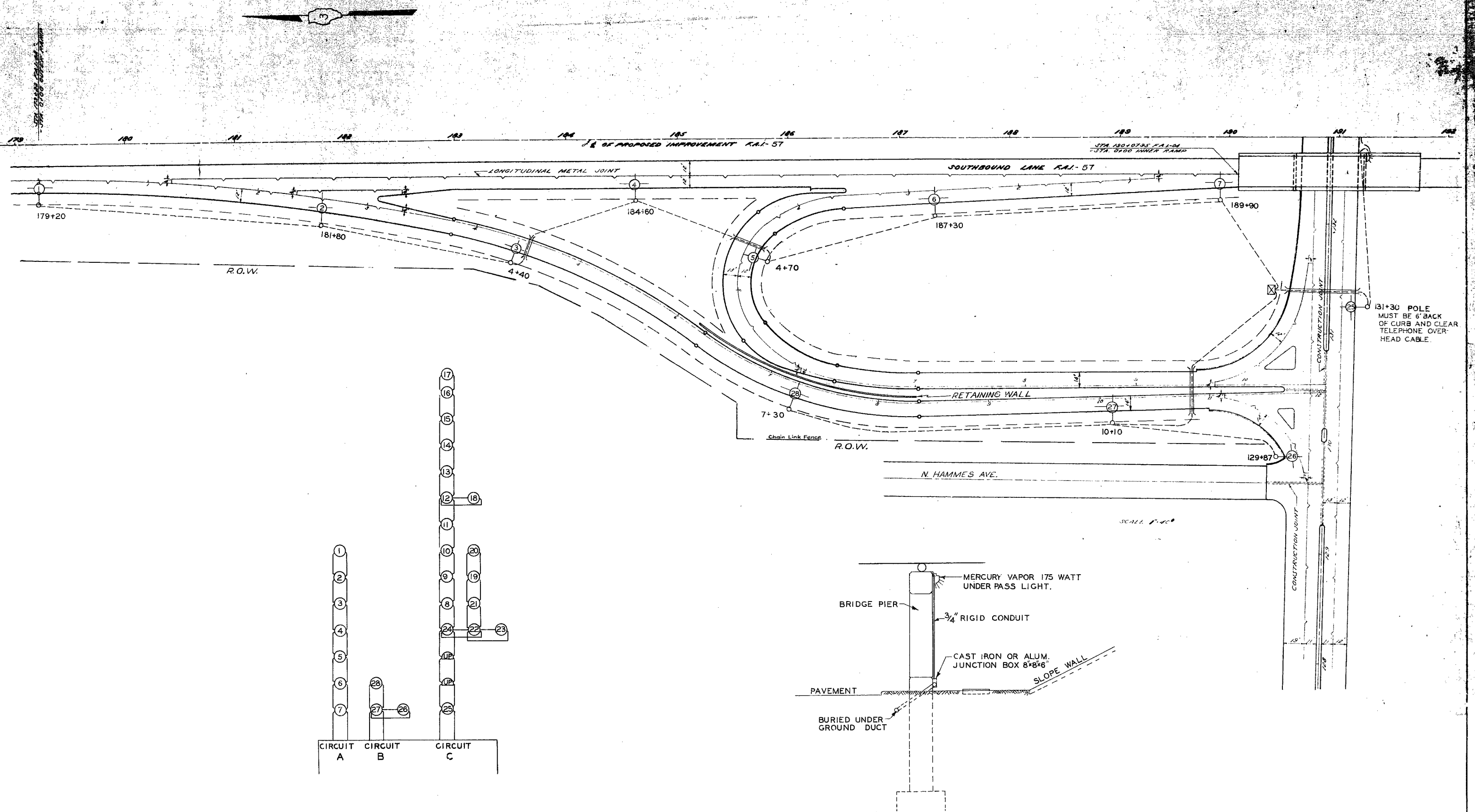
SCHEDULE OF WIRING

	Trench and Backfill	Conduit Pushed 2" Dia. Galvanized Steel	Electric Cable Unit Duct 2-600 VPVC #6 1 Inch Polyethylene	Electric Conductor In Trench (Bare Annealed Copper) No. 6	Electric Cable In Conduit 600V Neoprene- Rubber Insulated 1/C No. 12
	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.
Circuit A					
Control to Light 7	95		115	115	118
Light 7 to Light 6	260		270	270	118
Light 6 to Light 5	155		165	165	118
Light 5 to Light 4	110	31	151	151	118
Light 4 to Light 3	110	22	142	142	118
Light 3 to Light 2	174		184	184	118
Light 2 to Light 1	265		275	275	118
Circuit A Total	1169	53	1302	1302	826
Circuit B					
Control to Light 27	170	56	236	236	118
Light 27 to Light 26	155		165	165	118
Light 27 to Light 28	290		300	300	118
Circuit B Total	615	56	701	701	354
Circuit C					
Control to Light 25	25	66	101	101	118
Light 25 to U. P. 1	145		155	155	40
U. P. 1 to U. P. 2	30		40	40	40
U. P. 2 to Light 24	160		170	170	118
Light 24 to Light 22	220	56	286	286	118
Light 22 to Light 23	165		175	175	118
Light 22 to Light 21	315		325	325	118
Light 21 to Light 19	315		325	325	118
Light 19 to Light 20	15	88	113	113	118
Light 24 to Light 8	170		180	180	118
Light 8 to Light 9	300		310	310	118
Light 9 to Light 10	295		305	305	118
Light 10 to Light 11	6	48	64	64	118
Light 11 to Light 12	255		265	265	118
Light 12 to Light 18	170	40	220	220	118
Light 12 to Light 13	275		285	285	118
Light 13 to Light 14	70	40	120	120	118
Light 14 to Light 15	235		245	245	118
Light 15 to Light 16	360		370	370	118
Light 16 to Light 17	360		370	370	118
Circuit C Total	3886	338	4424	4424	2204
GRAND TOTAL	5670	447	6427	6427	3384

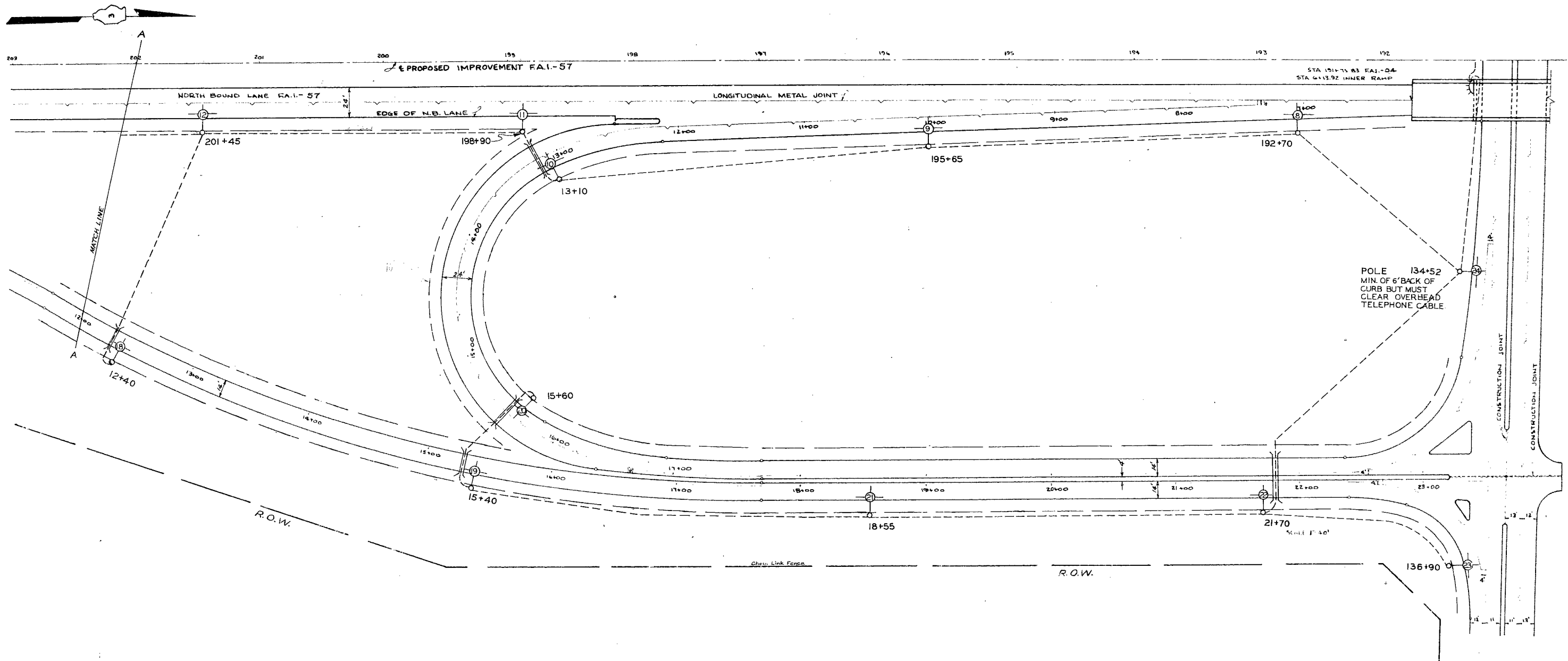
NOTE:
ONE (1) SIGN STD 2153-1 SHALL BE ERECTED AT THE
LOCATION SHOWN ON THE COVER SHEET.

SUMMARY OF QUANTITIES

Code No.	Item	Unit	Quantity	Instruction Type Code Y030 CE 58
646002	ENGINEERS FIELD OFFICE, TYPE B	EACH	1	1
L00147	CONDUIT PUSHED, 2" DIA, GALVANIZED STEEL	LIN FT	447	447
L02200	POLE FOUNDATION	EACH	28	28
L02434	LUMINAIRE, MERCURY VAPOR, 700 WATTS	EACH	28	28
L02781	ELECTRIC CABLE UNIT DUCT; 2-600 VPVC #6; 1" POLYETHYLENE	LIN FT	6427	6427
L04237	SERVICE POLE 35 FT CLASS 5	EACH	1	1
L04300	TRENCH AND BACKFILL	LIN FT	5670	5670
L04972	LAMP, MERCURY VAPOR, 175 WATTS, TYPE H39-22KB	EACH	2	2
L04973	LAMP, MERCURY VAPOR, 700 WATTS, TYPE H35-18NA	EACH	28	28
106035	ELECTRIC CABLE IN CONDUIT, 600 V (NEOPRENE-RUBBER INSULATED) 1/C NO. 12	LIN FT	3384	3384
106163	ELECTRIC CONDUCTOR IN TRENCH (BARE ANNEALED COPPER) NO. 6	LIN FT	6427	6427
L03112	BALLAST, MERCURY VAPOR, MULTIPLE REGULATOR TYPE FOR POLE BASE MOUNTING 700 WATTS, 460 VOLTS	EACH	28	28
L03395	CONTROL INSTALLATION TYPE CB RCS 100-480 PHOTO-CELL	EACH	1	1
L04969	LUMINAIRE, MERCURY VAPOR, UNDERPASS TYPE 175 WATTS	EACH	2	2
L05215	POLE, METAL , TRANSFORMER BASE, 46 FT. MH, 15 FT. MAST ARM	EACH	28	28

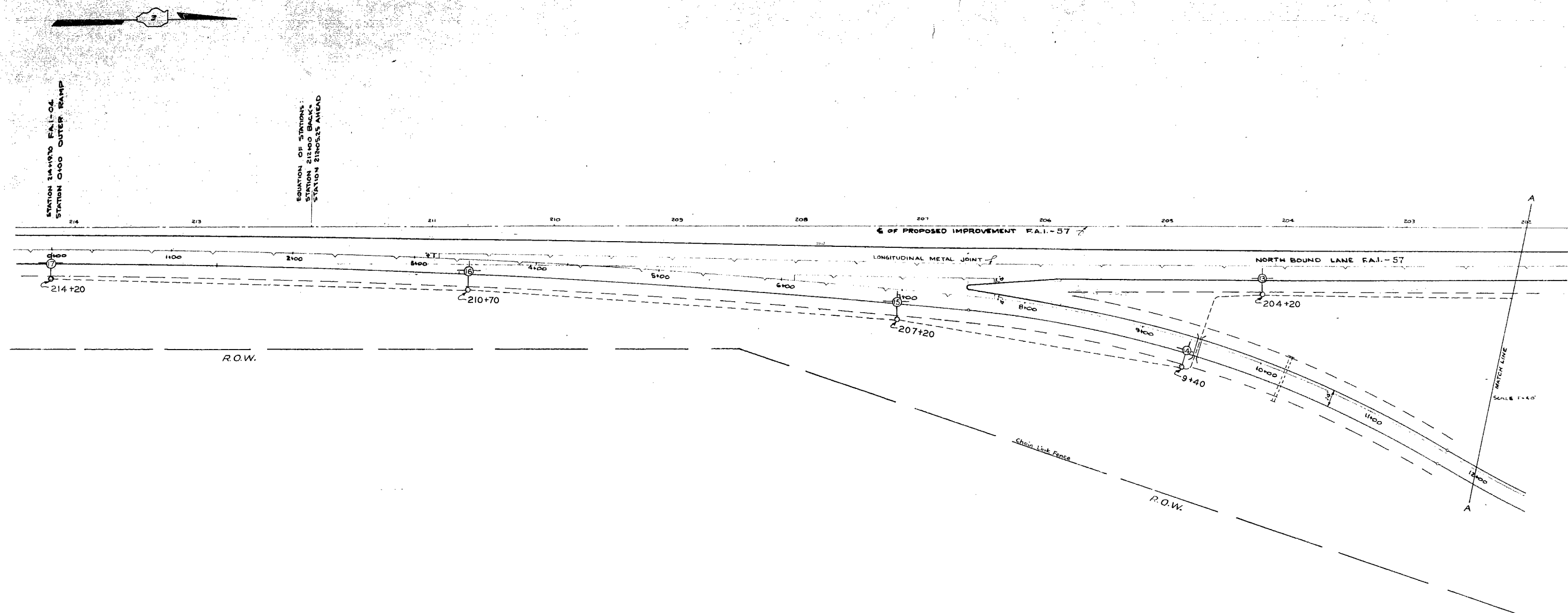


PLAN	SECTION	TOTAL SHEETS	SHEET NO.
FA.I-57	46-3L KANKAKEE	12	4
ROAD DIST. NO. ILLINOIS PROJECT			



LAYOUT OF CONSTRUCTION SHOWING DETAILS
FA.I.-57 & S.B.I. RT.17

GENERAL AND SPECIAL NOTES	SECTION	TOTAL SHEETS	SHEET NO.
F.A.I.-57	46-3L KANKAKEE	12	5
DESIGNED BY: [illegible] DRAWN BY: [illegible] CHECKED BY: [illegible]			

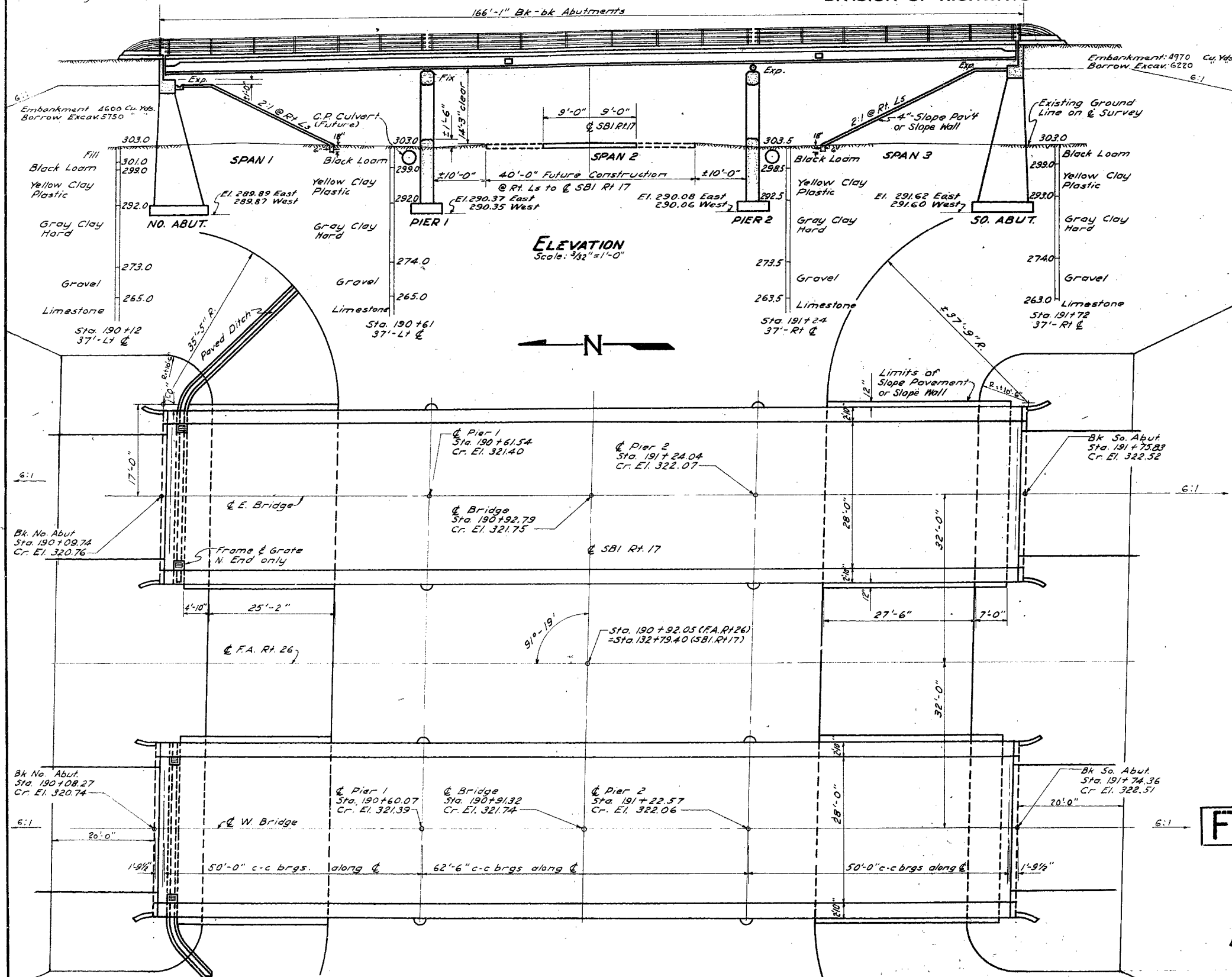


B.M. #4 "X" on E. Headwall
P.E. Culvert Rt. Sta. 1349.9
on SBI Rt. Elev. 304.41
No Existing Structure

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57	46-3L	KANKAKEE	12	6
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 7
6 SHEETS



GENERAL NOTES

Class X concrete shall be used throughout.

The concrete floor slab shall be finished in accordance with Article 51.18 (a) of the Standard Specifications, & the applicable portions of Articles 48.18 & 48.20.

Rivets $\frac{1}{2}$ " ϕ , Open holes $\frac{1}{8}$ " ϕ , unless noted.

Field connections riveted unless noted.

All rollers, rockers, bearing plates, lead plates pintles and anchor bolts shall be fabricated and set in accordance with Article 51.14 of the Standard Specifications and are included for payment as Structural Steel.

Anchor bolts shall be set before riveting diaphragms over supports.

The following surfaces of expansion guards shall be given two shop coats of red lead paint, backs of the vertical legs of the angles.

Expansion guards are included for payment as Structural Steel.

Estimated Wt. = 3160 Lbs.

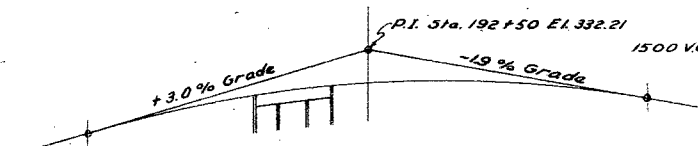
Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Articles 57.1 to 57.5 inclusive of the Standard Specifications.

All paint shall be furnished and applied by the Contractor.

All bars shall be 20 diameters unless otherwise shown.

Boring Data are shown on the drawings only as a guide to bidders in estimating soil conditions which may be encountered in the work.

Slope Wall or Slope Pavement shall be constructed as shown on the plans and to a thickness of 4 inches with a toe wall of 6" width. If concrete slope wall is used, it shall be reinforced with #4 #4, 6" $\times$ 6" welded wire mesh placed midway of the slab.



PROFILE OF GRADE

TOTAL BILL OF MATERIAL FOR TWO BRIDGES

ITEM		SUPER STRUCT.	SUB STRUCT.	SECTION 139 H-B
Class "X" Concrete	Cu. Yd.	308.4	636.2	944.6
Reinforcement Bars	Lbs.	44910	54100	99010
Structural Steel	Lbs.	304,810		304,810
Name R	Each	2		2
Cast Iron Frames	Each	4		4
8" C.M. Pipe	Lin. Ft.	20		20
Metal Hand Rail	Lin. Ft.	728.0		728.0
Class A Excavation for Str. Cu. Yd.			1800	1800
Borrow Excavation			11970	11970
ALTERNATE A				
Slope Pavement	Sq. Yd.		560	560
ALTERNATE B				
Slope Wall	Sq. Yd.		560	560

FOR INFORMATION ONLY

STATION 190+92.05
BUILT 195 BY
STATE OF ILLINOIS
F.A. RT. 26 SEC. 139 HB
F.A. PROJ. UI-29 (W)
LOADING H20-5/16

LETTERING FOR NAME R
See Std. 2.113

DESIGN DATA

$f_s = 18,000$ p.s.i. (Structural)
 $f_r = 20,000$ p.s.i. (Reinf.)
 $f_c = 1400$ p.s.i. (Super)
 $f_c = 800$ p.s.i. (Substr.)
 $n = 10$

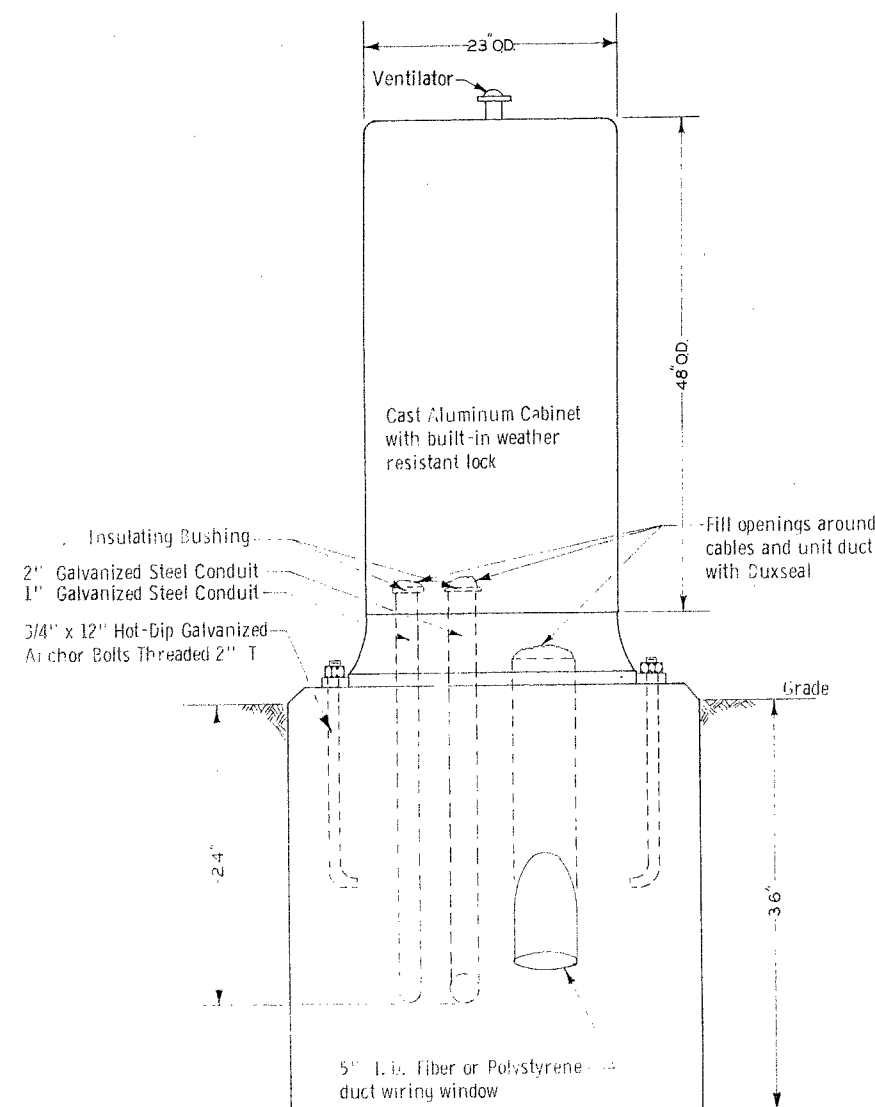
GENERAL PLAN & ELEVATION
PROJECT UI-29 (16)

F.A. RT. 26 OVER SBI RT. 17 SEC 139 HB
KANKAKEE COUNTY
STA. 190+92.05

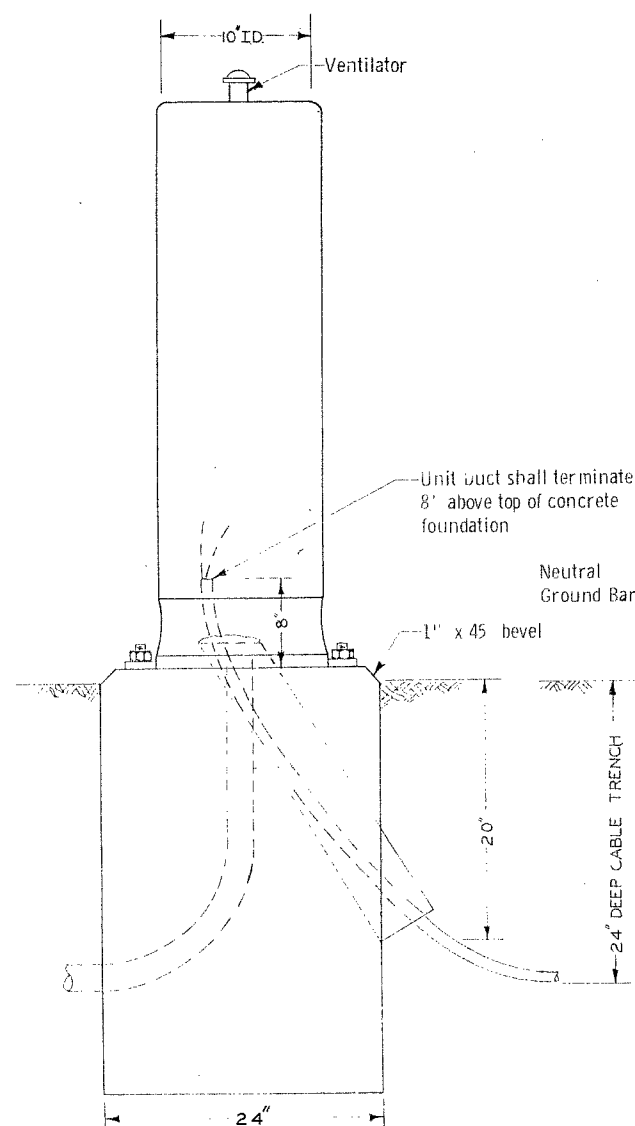
DESIGNED	Inhibition
CHECKED	Richard D. Collins
DRAWN	W.E.B. J. Ganci
CHECKED	M.C. R.D.C.
EXAMINED	W.E. Johnson
PASSED	E. J. Plunkett
APPROVED	J. N. Parker

Rev. 3-17-55
9-6-55

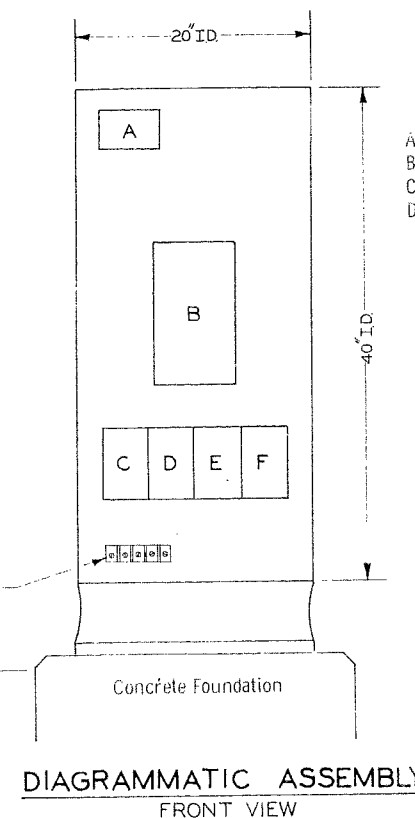
H20-5/16-4.4-LOADING



CABINET AND FOUNDATION
FRONT VIEW



CABINET AND FOUNDATION
SIDE VIEW

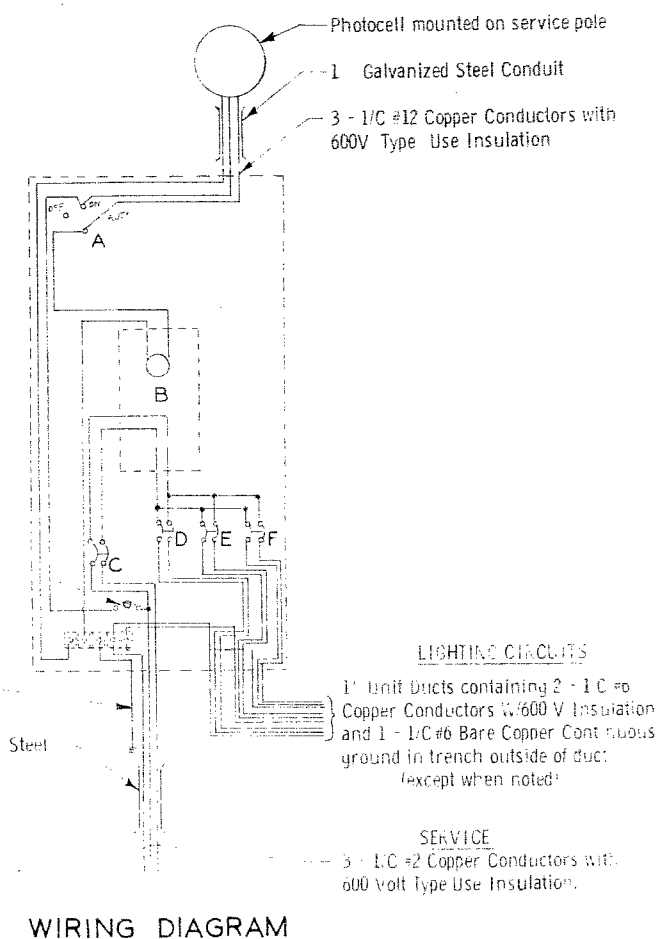


- A - Selector Switch
- B - 2 Pole, 100 Amp Contactor
- C - 2 Pole, 100 Amp Breaker
- D, E, F - 2 Pole, 50 Amp Breaker

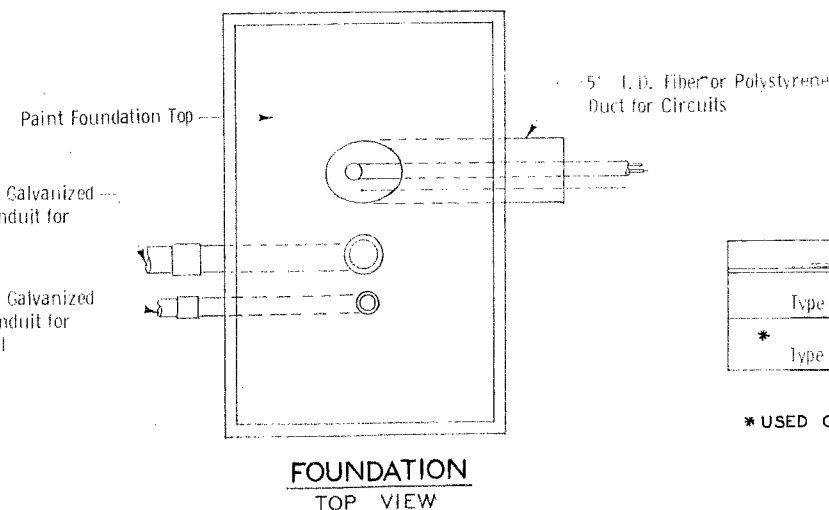
600V 20 Amp
Cart Fuse

To 5/8" x 8'-0"
Ground Rod

2" (Min) Galvanized Steel
Conduit

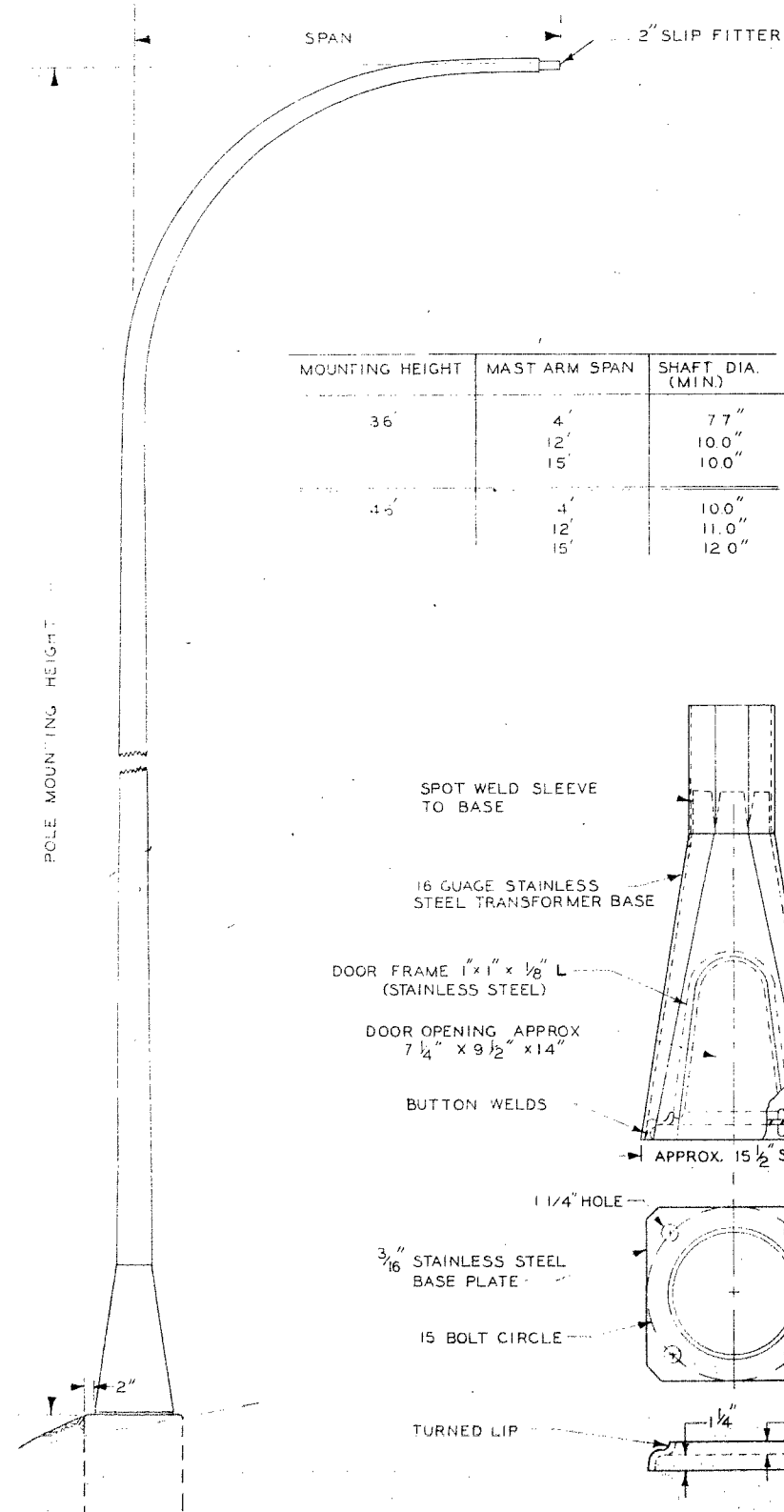


WIRING DIAGRAM

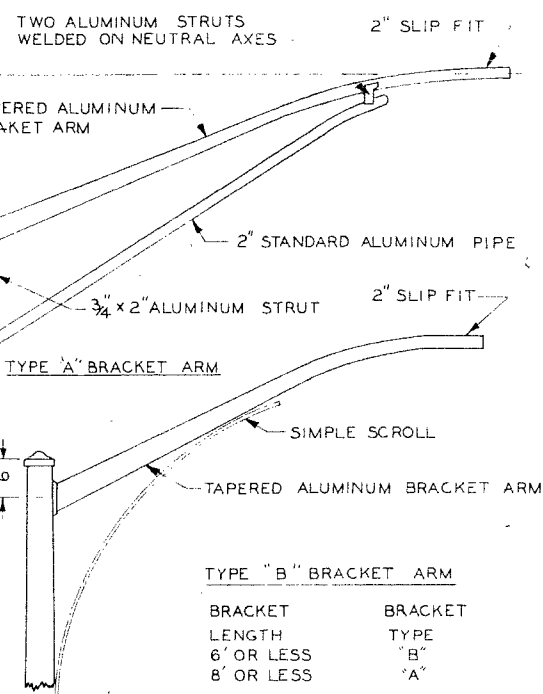
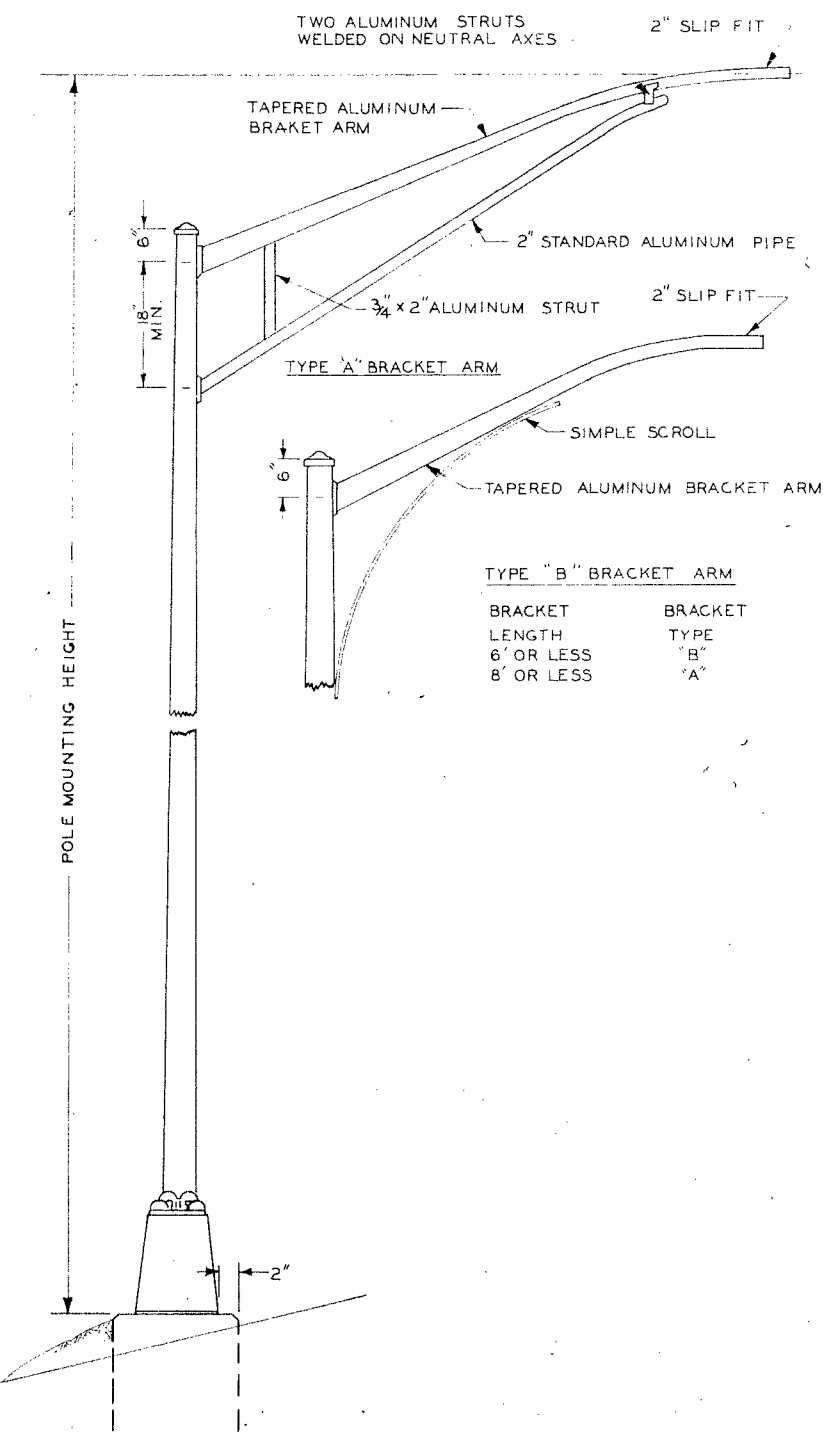


Pay Item	Power Supply	Breaker Type
Control Installation Type CBKCS 100-240 Photocell	120/240 Volt	'EH'
* Control Installation Type CBKCS 100-480 Photocell	240/480 Volt	'EH'

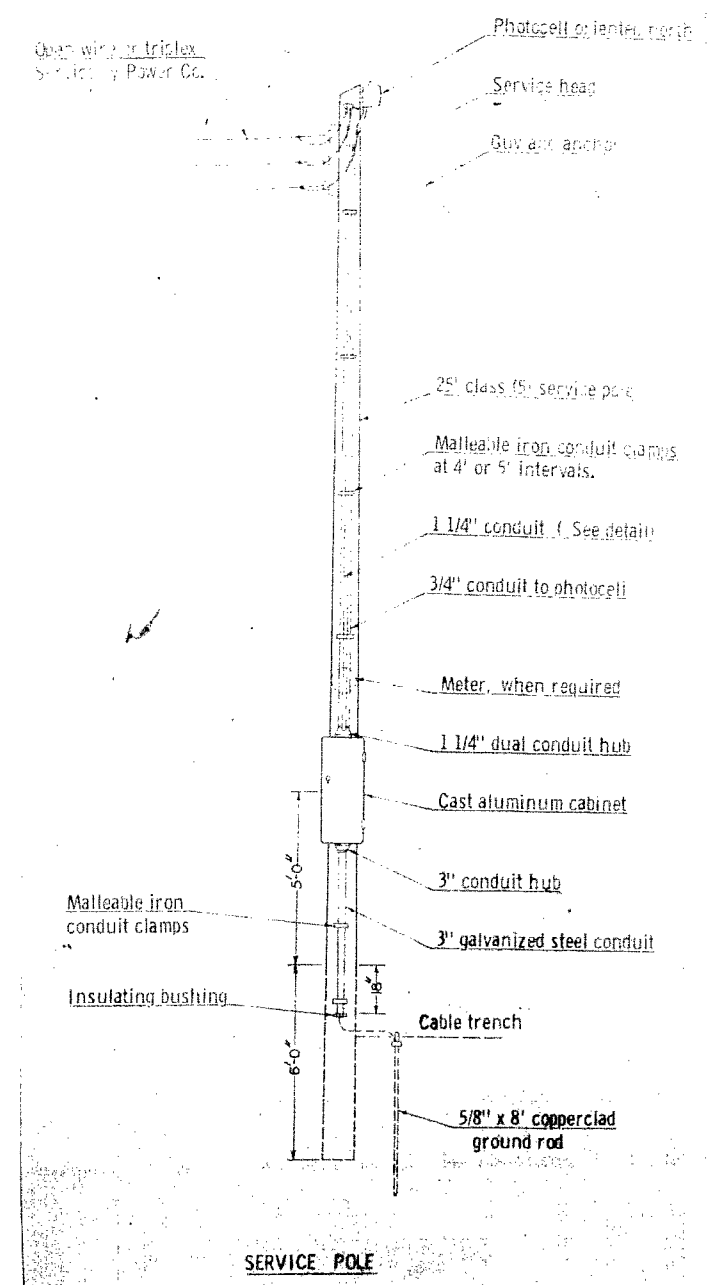
* USED ON THIS JOB

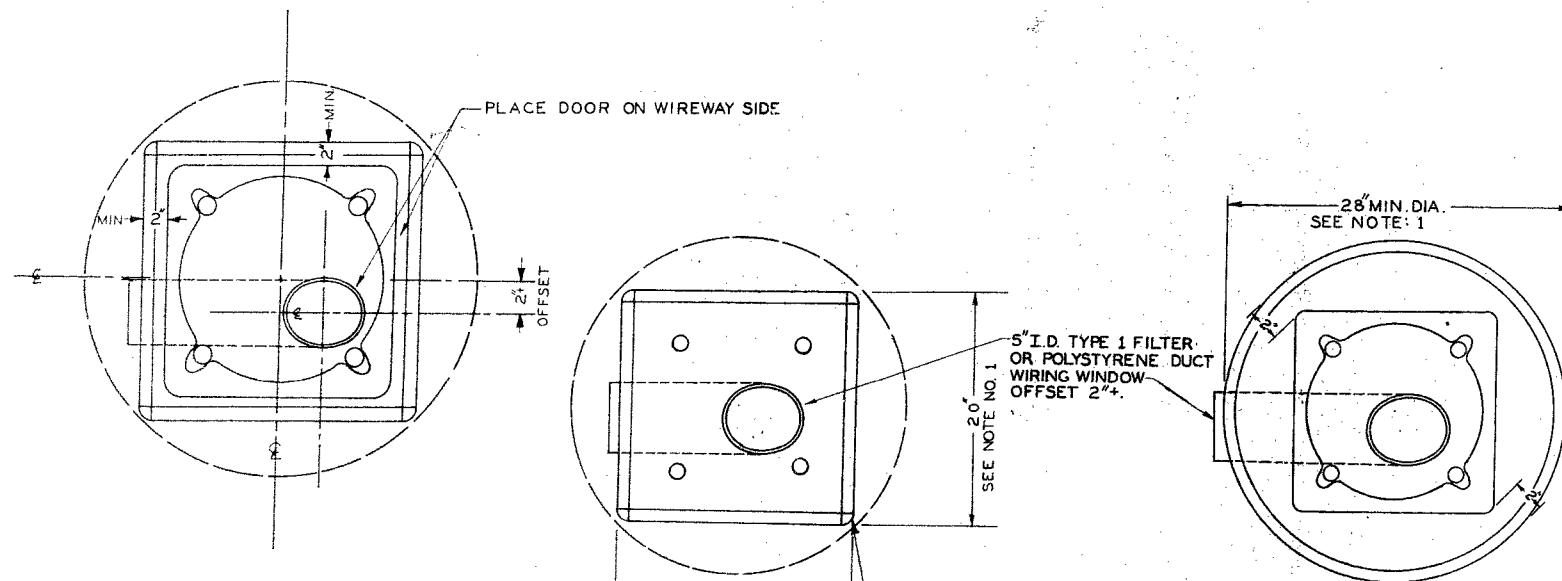


MOUNTING HEIGHT	MAST ARM SPAN	SHAFT DIA. (MIN.)
36'	4'	7.7"
	12'	10.0"
	15'	10.0"
45'	4'	10.0"
	12'	11.0"
	15'	12.0"

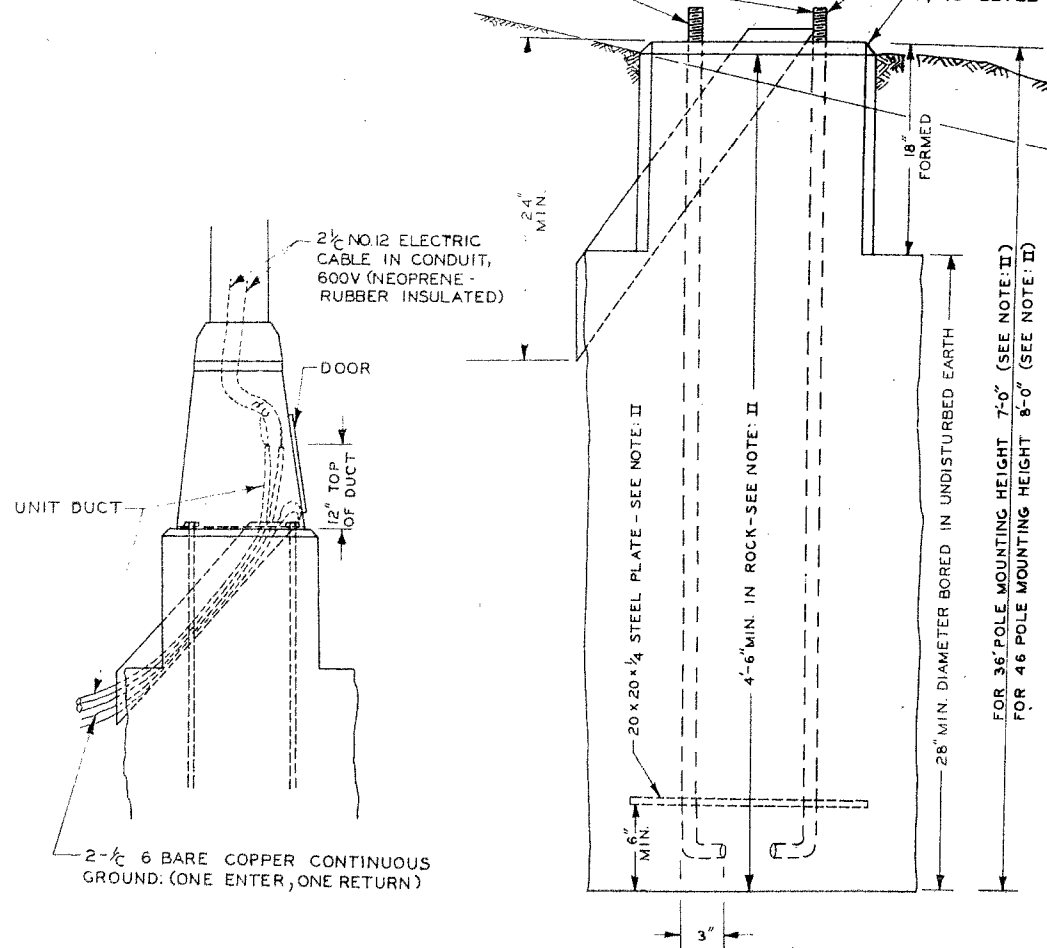


TYPE "B" BRACKET ARM	
BRACKET LENGTH	BRACKET TYPE
6' OR LESS	"B"
8' OR LESS	"A"





72" I.D. STEEL ANCHOR BOLTS 5" AND HOT DIP GALVANIZED 9" +. ANCHOR BOLTS TO BE EXTENDED THROUGH NUT PLUS ONE THREAD. **ALTERNATE FOUNDATION**



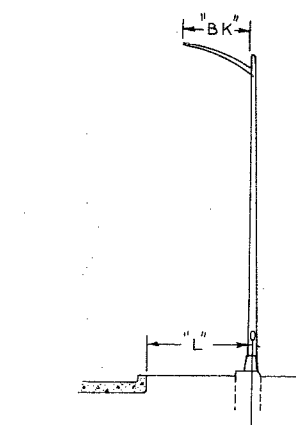
POLE FOUNDATION

NOTE: USE DIRT REMOVED FOR FOUNDATION TO FILL AROUND TOP OF FOUNDATION. MAKE TOP OF DIRT LEVEL WITHIN TOP OF CONCRETE. ANY EXCESS DIRT WILL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.

NOTE: THE TOP 18" ONLY SHALL BE FORMED. CONCRETE BOUNDED BY UNDISTURBED EARTH ONLY SHALL FILL THE REMAINDER OF THE HOLE.

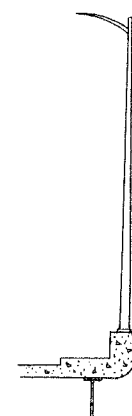
NOTE I: MINIMUM CLEARANCE FROM OUTSIDE EDGE OF FOUNDATION TO ANY PART OF POLE BASE PLATE SHALL BE 2".

NOTE II: THE DEPTH OF THE FOUNDATION MAY BE REDUCED 6" FOR EVERY FOOT OF ROCK ENCOUNTERED, WITH A MINIMUM FOUNDATION DEPTH OF 4'-6". WHEN THE DEPTH OF THE FOUNDATION IS DECREASED TO LESS THAN 6' THE ANCHOR BOLTS SHALL BE CUT, THREADED, AND A STEEL PLATE 20" x 20" x 1/4" SHALL BE INSTALLED ON THE ANCHOR BOLTS 6" ABOVE THE BOTTOM OF THE EXCAVATION. THE COST SHALL BE INCIDENTAL TO THE POLE FOUNDATION.

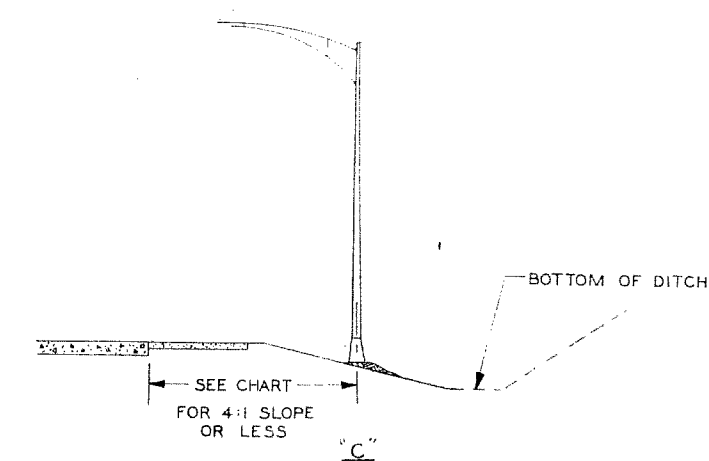
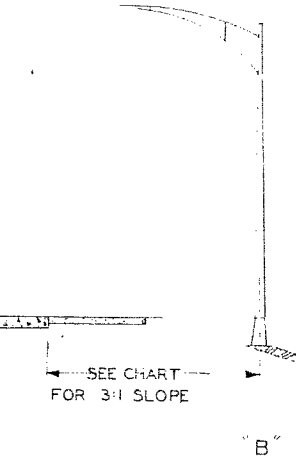
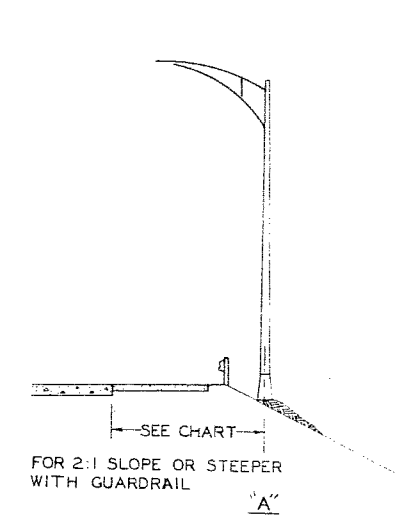


LOCATION OF POLE WITH RELATION TO CURB

ILLUSTRATION	SHOULDER WITH	POLE SETBACK	BRACKET LENGTH
BRIDGE	—	ON PARAPET	4'
"A"	10'	13'-14'	12'
"A"	12'	15'-16'	15'
"B"	10'	18'-20'	15'
"B"	12'	18'-20'	15'
"C"	10'	18'-20'	15'
"C"	12'	18'-20'	15'
9" CURB	—	8'	SEE "D"
6" CURB	—	SEE "A", "B", & "C"	SEE "A", "B", & "C"



LIGHTING UNIT MOUNTED ON BRIDGE STRUCTURE



LOCATION OF POLES WITH REGARD TO BACKSLOPE