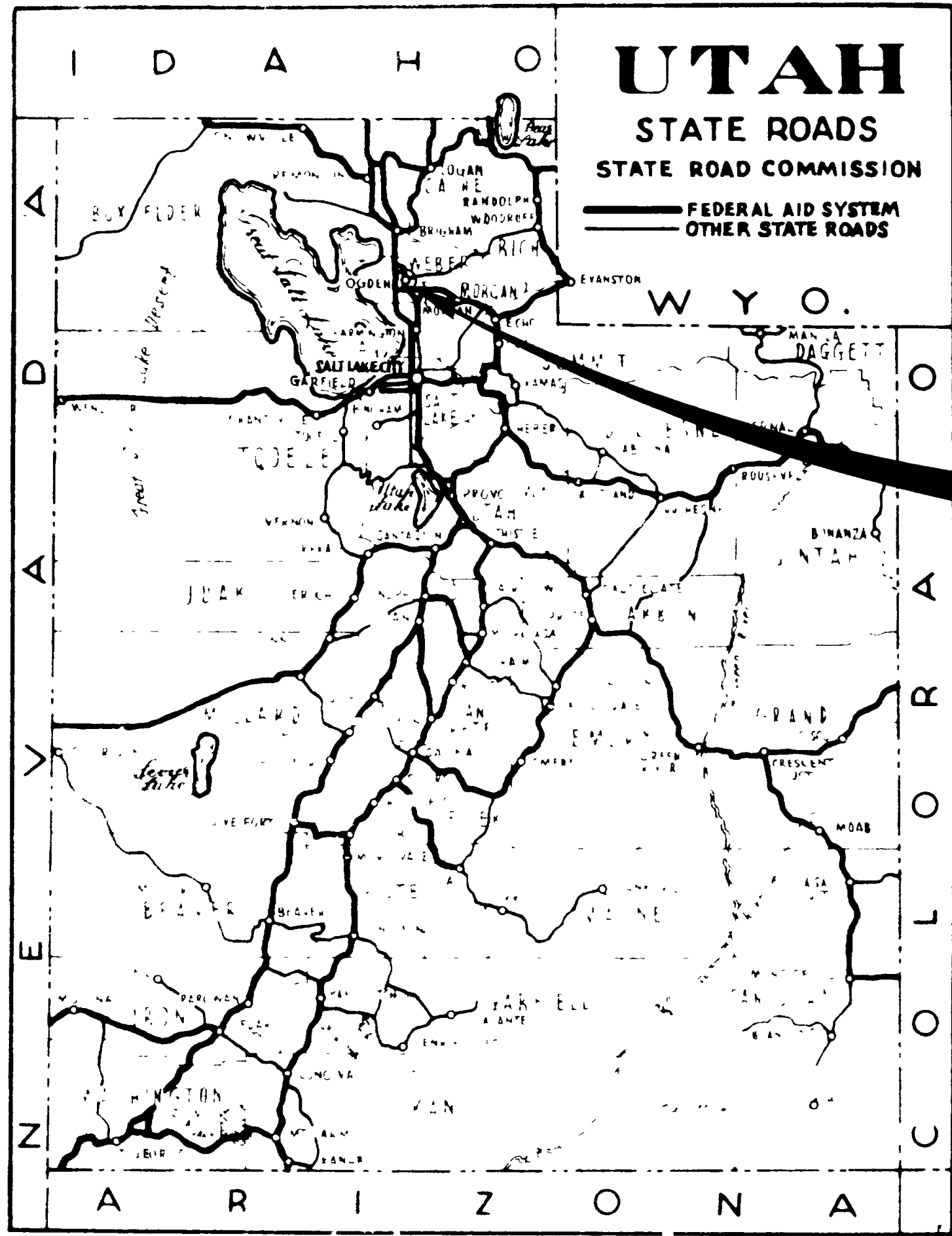


AS CONSTRUCTED PLANS STATE OF UTAH STATE ROAD COMMISSION

FILE NO.	DATE	BY	REVISION	TOTAL SHEETS
UTAH				



I-15-8(36)338

PLANS OF PROPOSED STATE ROAD

FEDERAL AID PROJECT

I-15-8(36)338

OGDEN INTERCHANGES

WEBER COUNTY

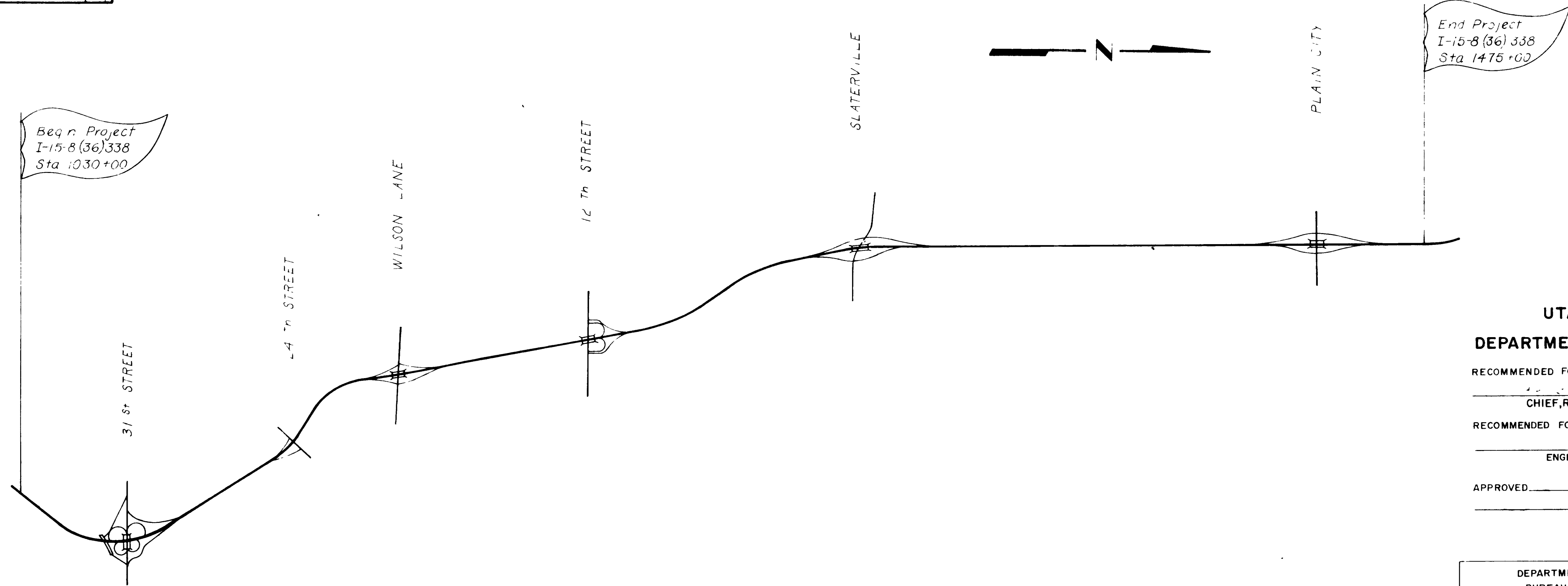
STA. 1030+00 TO 1475+00

PROJECT LENGTH 7.886 MILES

INTERSTATE LIGHTING

CACHE VALLEY ELECTRIC, CONTRACTOR
SHERMAN L. BURTON, RESIDENT ENGINEER
EFFECTIVE DATE 11-11-1971

SH NO.	DESCRIPTION	DWG. NO.
1	Title Sheet	L-24
2	Pole Schedule	
3	Pole Schedule	
4	Summary & Schedule	
5	Electrical & Condu. Details	
6	Light Pole Details	
7	Electrical Junction Box Details	
8	Transformer Substation	
9	Break Away Base	
10	Sign Bridge Lighting Details	
11	Structure Lighting Details	
12	Structure Plans	
13	Structure Lighting Plans	L-24
14	General Sign Structure (Information Only)	G-101
15	Vertical Sign Structure (Information Only)	G-134
16	Vertical Sign Structure (Information Only)	G-135
17	Vertical Sign Structure (Information Only)	G-136
18	Vertical Sign Structure (Information Only)	G-137
19	Maintenance Sign Details for Sign Structure (Info Only)	G-93B
20	Sign Structure	745-1A-E
21	Sign Structure	745-6



UTAH STATE
DEPARTMENT OF HIGHWAYS
RECOMMENDED FOR APPROVAL June 30, 1971
CHIEF, ROADWAY DESIGN DIVISION
RECOMMENDED FOR APPROVAL June 1970
ENGINEER FOR PRECONSTRUCTION
APPROVED June 1970
STATE HIGHWAY ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DIVISION ENGINEER DATE

POLE NO.	LOCATION		POLE HEIGHT FEET	BRACKETS LENGTH (FT)				LUMINAIRES H.P.S. *			LAMPS WATTAGE	JUNCTION BOXES		CONDUCTOR TYPE		GROUND WIRE NO 6	MOLDED CONNECTORS		BALLAST VOLTAGE	REMARKS
	LINE	SIDE		4'	12'	15'	20'	II	III	IV		III	IV	NO 8	NO 6		F	UNF		
DAA6	P	RT.	42'-6"								400			67'-6"	10'	2		480		
DAA7														67'-6"						
DAA8														67'-6"						
DAA9														64'-6"						
DAA10														67'-6"						
DAA11														64'-6"						
DAA12	P	RT.												67'-6"						
DAA13	K	LT.																		
DAB1	I-15	RT																		
DAB2																				
DAB3														67'-6"						
DAB4	I-15			2				2						76'-6"						
DAB5	N													67'-6"						
DAB6	N													67'-6"						
DAB7	I-15													64'-6"						
DAB8														64'-6"						
DAB9		RT.												64'-6"						
DAC1		LT												67'-6"						
DAC2																				
DAC3	I-15																			
DAC4	M																			
DAC5	M													67'-6"						
DAC6	M													64'-6"						
DAC7	I-15																			
DAC8	I-15																			
DAC9	K																			
DAC10	I-15													64'-6"						
DAD1														67'-6"						
DAD2																				
DAD3																				
DAD4	I-15																			
DAD5	L																			
DAD6																				
DAD7														67'-6"						
DAD8														64'-6"						
DAD9														67'-6"						
DAD10														67'-6"						
DAD11	L	LT.	42'-6"								400			67'-6"	10'	2		480		
Slaterville Interchange																				
DBA1	I-15	RT	42'-6"								400			67'-6"	10'	2		480		
DBA2	I-15																			
DBA3	I-15																			
DBA4	2		42'-6"											67'-6"						
DBA5	3	RT.	40'-0"											65'-0"						
DBB1	I-15	LT	42'-6"											67'-6"						
DBB2																				
DBB3																				
DBB4																				
DBB5	I-15		42'-6"																	
DBB6	I		40'-0"																	
DBC1	I-15		42'-6"																	
DBC2																				
DBC3																				
DBC4		LT																		
DBD1		RT																		
DBD2																				
DBD3																				
DBD4	I-15	RT.	42'-6"								400			67'-6"	10'	2		480		
Plain City Interchange																				
DCA1	27 th	LT	42'-6"								400			67'-6"	10'	2		480		
DCA2	I-15																			
DCA3																				
DCA4																				
DCA5	I-15	LT																		
DCB1	W	RT																		
DCB2	I-15																			
DCB3																				
DCB4																				
DCB5	I-15																			
DCC1	27 th																			
DCC2	I-15																			
DCC3	I-15																			
DCC4	I-15	RT	42'-6"								400			67'-6"	10'	2		480		

POLE NO.	LOCATION		POLE HEIGHT FEET	BRACKETS LENGTH (FT)				LUMINAIRES H.P.S. *			LAMPS WATTAGE	JUNCTION BOXES		CONDUCTOR TYPE		GROUND WIRE NO 6	MOLDED CONNECTORS		BALLAST VOLTAGE	REMARKS
	LINE	SIDE		4'	12'	15'	20'	II	III	IV		III	IV	NO 8	NO 6		F	UNF		
DCC5	I-15	RT	42'-6"								400			67'-6"	10'	2		480		
DCD1	27 th	RT												64'-6"						
DCD2	I-15	LT												67'-6"						
DCD3																				
DCD4																				
DCD5	I-15	LT.	42'-6"								400			67'-6"	10'	2		480		

* High Pressure Sodium

UTAH STATE DEPARTMENT OF HIGHWAYS
TRAFFIC DIVISION
OGDEN INTERCHANGES
INTERSTATE LIGHTING
LIGHT POLE SCHEDULE
RVW 5-8-70 I-15-8(36)338
EP 5-7-70
KFH 6-18-70 Weber
6-30-70 *q* *Badalini*
L-24 3 22

Sign Bridge Lighting

Station	Line	Offset*	Type	Remarks
G-101	1035+00 NB	3	3	56' 70' 70' 48'
G-134	1077+00 SB	3	3	53' 75' 75' 40'
G-135	1095+00 NB	3	3	65' 80' 80' 50'
G-136	1176+00 S.B	3	3	58' 86' 86' 50'
G-137	1138+00 NB	3	3	63' 83' 83' 50'
Use 15 15 15 5 295' 394' 394' 238' 5				

Junction Boxes Not At Poles				
Station	Line	Offset*	Type	Remarks
31st Street Interchange				
192+76	31st	57' Lt.	I	
200+25		70' Lt.	I	
200+25		70' Rt.	I	
197+50		70' Lt.	I	
197+50	31st	70' Rt.	I	
Wilson Lane Interchange				
1154+50	I-15	80' Rt	I	
1154+50		80' Lt	I	
3725	G	40' Lt.	I	
34+95	G	40' Lt.	I	
Slaterville Interchange				
13+72	LINE 3	30' Lt.	I	
Plain City Interchange				
1445+50	I-15	75' Rt	I	
1447+50	I-15	75' Rt	I	
31st STREET INTERCHANGE				
192+76	31st	57' RT.	I	
12TH STREET INTERCHANGE				
1213+50	I-15	LT	I	
1213+50	I-15	RT	I	
SLATERVILLE INTERCHANGE				
26+00	LINE 1	LT.	I	
26+00	LINE 1	RT.	I	
Use				

*Offset is defined as the distance from the survey line to the center of junction box

I HEREBY CERTIFY THAT THE ABOVE SHOWN QUANTITIES ARE TRUE AND CORRECT.

Sherman L. Burton
SHERMAN L. BURTON
RESIDENT ENGINEER

Substation Schedule

Substation	Description	Quantity
CX	31st Street Interchange 192+80 05' Lt	75
CY	24th Street Interchange 1098+86 I-15 162' RT	25
C7	Wilson Lane Interchange 38+14 G LINE 154' RT	25
DA	12th Street Interchange 21+65 K LINE 65' RT	37.5
DB	Slaterville Interchange 14+80 LINE 2 70' RT	25
DC	Plain City Interchange 22+75 V LINE 42' LT	25

Circuit Schedule * SEE BOOK # 2 FOR COMPLETE BREAKDOWN

Substation	No. of Luminaires			Wire Size (AWG)	* Length	Fuse (Amps)	1 1/2" R.S.	2" R.S.
	L.P.#	S.B.#	U.L.#					
CXA	10	3		4		75	187.0	
CXB	13			6		65		
CXC	15		2	4		85		
CXD	11			4		55	175.0	
CXE	11	3		2		70	177.0	
CXF	14			4		70	38.4	
CXG	14		2	6		80	47.0	
CXH	12			6		70		
CYA	5	3		6		40		
CYB	5		4	6		45		
CZA	3	3		6		30		
CZB	3			8		15		
CZC	6	3		6		45	246.0	
CZD	5			8		25	249.5	
DAA	13			8		65		
DAB	10		4	8		70	177.4	
DAC	10			8		50	178.6	
DAD	11			4		55		
DBA	5			6		25		
DBB	6			6		30		
DBC	4			6		20		
DBD	4			6		20		
DCA	5			6		25		
DCB	5			6		25		
DCC	5			6		25		
DCD	5			6		25		

- 1-Light Poles
- 2-Sign Bridges
- 3-Understructure Lighting

Item	Quantity	Unit	Remarks
Mobilization	1	LUMP	
Flagging	23.0	3	1-12
N° 8 AWG Copper Single Conductor 600 V Cable	25544.8	2	20-50
N° 6 AWG Copper Single Conductor 600 V Cable	78280.6	2	5-50
N° 4 AWG Copper Single Conductor 600 V Cable	33987.8	2	5-50
N° 2 AWG Copper Single Conductor 600 V Cable	8634.2	2	5-7
1 1/2" Rigid Steel Conduit	2150.0	2	5-71
Junction Box Type III	3	1	38-69
Junction Box Type IV	14.0	1	22-69
Light Pole Assembly 35'-0" X 4'-0" (Struct)	30	1	9-75
Light Pole Assembly 40'-0" X 12'-0"	17.0	1	12-75
Light Pole Assembly 40'-0" X 12'-0" X 12'-0"	1.0	1	45-75
Light Pole Assembly 40'-0" X 15'-0"	174.0	1	3-75
Light Pole Assembly 40'-0" X 15'-0" X 15'-0"	7.0	1	5-75
Sign Bridge Lighting G-101	1	LUMP	3 18
Sign Bridge Lighting G-134	1	LUMP	3 18
Sign Bridge Lighting G-135	1	LUMP	3 18
Sign Bridge Lighting G-136	1	LUMP	3 18
Sign Bridge Lighting G-137	1	LUMP	3 18
Substation CX 31st Street 75 KVA	1	LUMP	3 19
Substation CY 24th Street 25 KVA	1	LUMP	3 19
Substation CZ Wilson Lane 25 KVA	1	LUMP	3 19
Substation DA 12th Street 375 KVA	1	LUMP	3 9
Substation DB Slaterville 25 KVA	1	LUMP	3 19
Substation DC Plain City 25 KVA	1	LUMP	3 19
N° 6 AWG Soft Drawn Copper Ground Wire	64951.0	2	17-50
Trenching	59638.1	2	5-50
Understructure Lighting C-478 31st Street	1	LUMP	3 20
Understructure Lighting F-118 24th Street	1	LUMP	3 20
Understructure Lighting C-570 12th Street	1	LUMP	3 20
2" Rigid Steel Conduit (Roadway Cut)	10.0	2	5-17
SA #1 ADDITIONAL REBAR IN POLE FOOTINGS	152.0	2	17-34
SA #2 LIGHT POLE ASSEMBLY (40'-0" X 15'-0") (PLACED IN STOCKPILE)	204.0	2	44
EACH	4.0	2	42

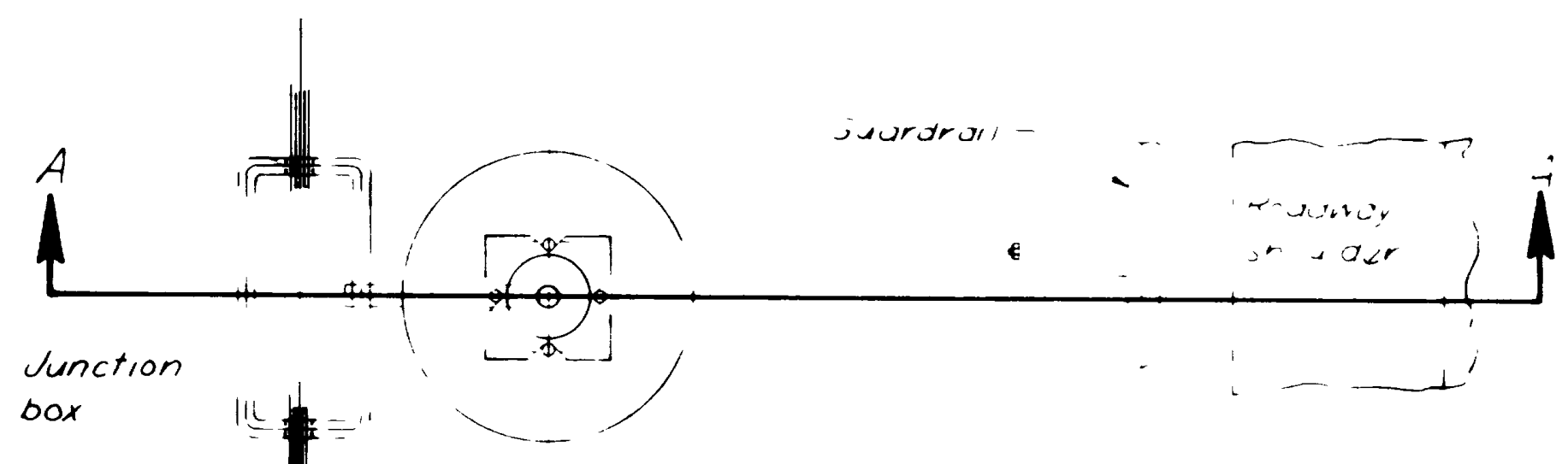
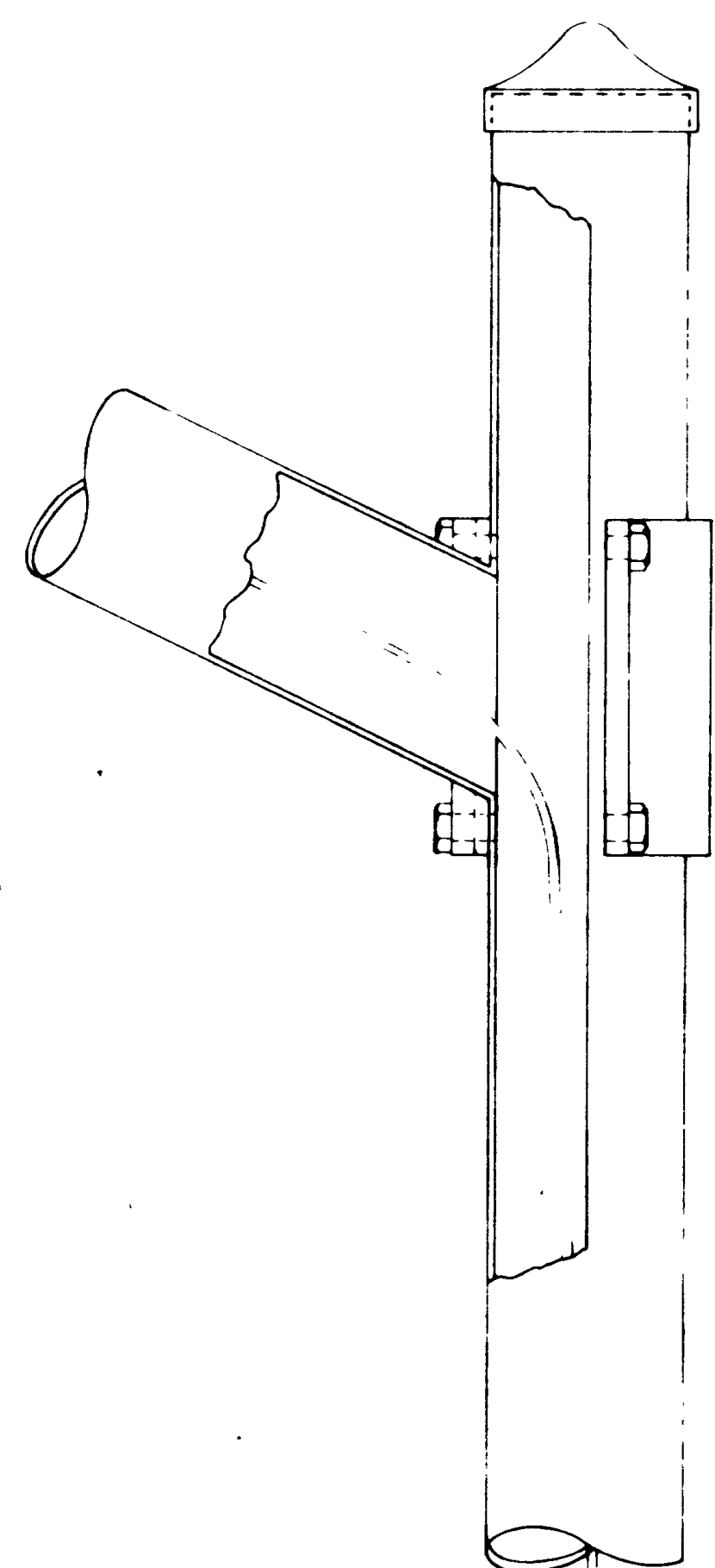
Understructure Lighting

No.	Station	Fixture	Bond	Length	Conduit	Ground	Wiring	Notes
C-478	31st St	4	4	4	40	432	432	
F-118	24th St	4	4	4	400	400	400	1
C-570	12th St	4	4	4	480	480	480	1
		12	12	12	920	1312	1312	2

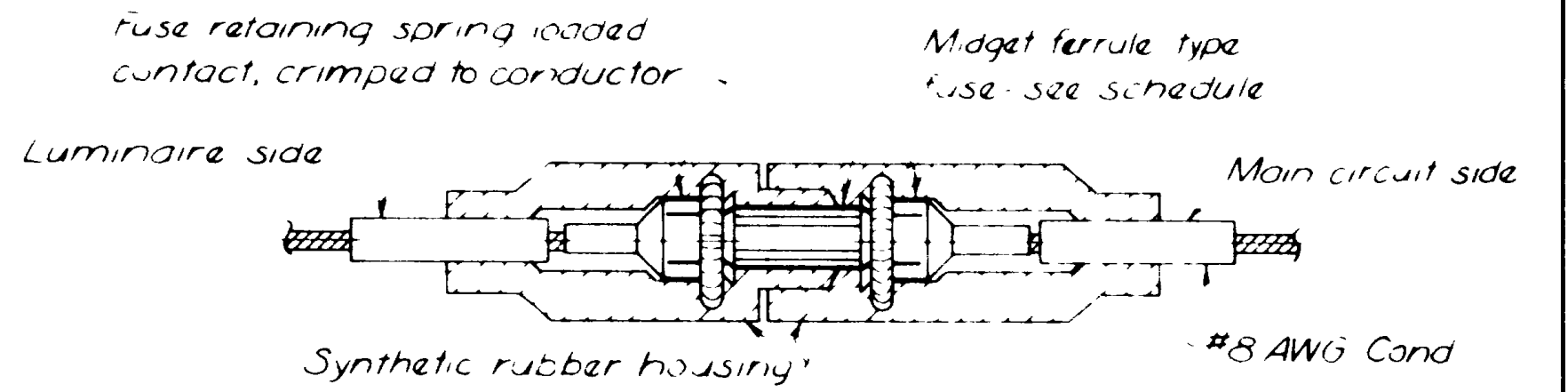
Roadway Crossing - Rigid Steel Conduit

Location		Conduit	Remarks
From	To	2"	
31st Street Interchange			
192+76	31st	115.0	
SLATERVILLE	92+76	37.0	

OGDEN INTERCHANGES
INTERSTATE LIGHTING
SUMMARY AND SCHEDULE SHEET
R.U.W. 5-8-70 I-15-B(36)338
KFH 5/7/70
KFH 6-18-70 Weber
6-30-70 Ogden



NOTES:
 1- See Sheet No 6 for light pole details
 2- See Sheet No 7 for electrical junction box details



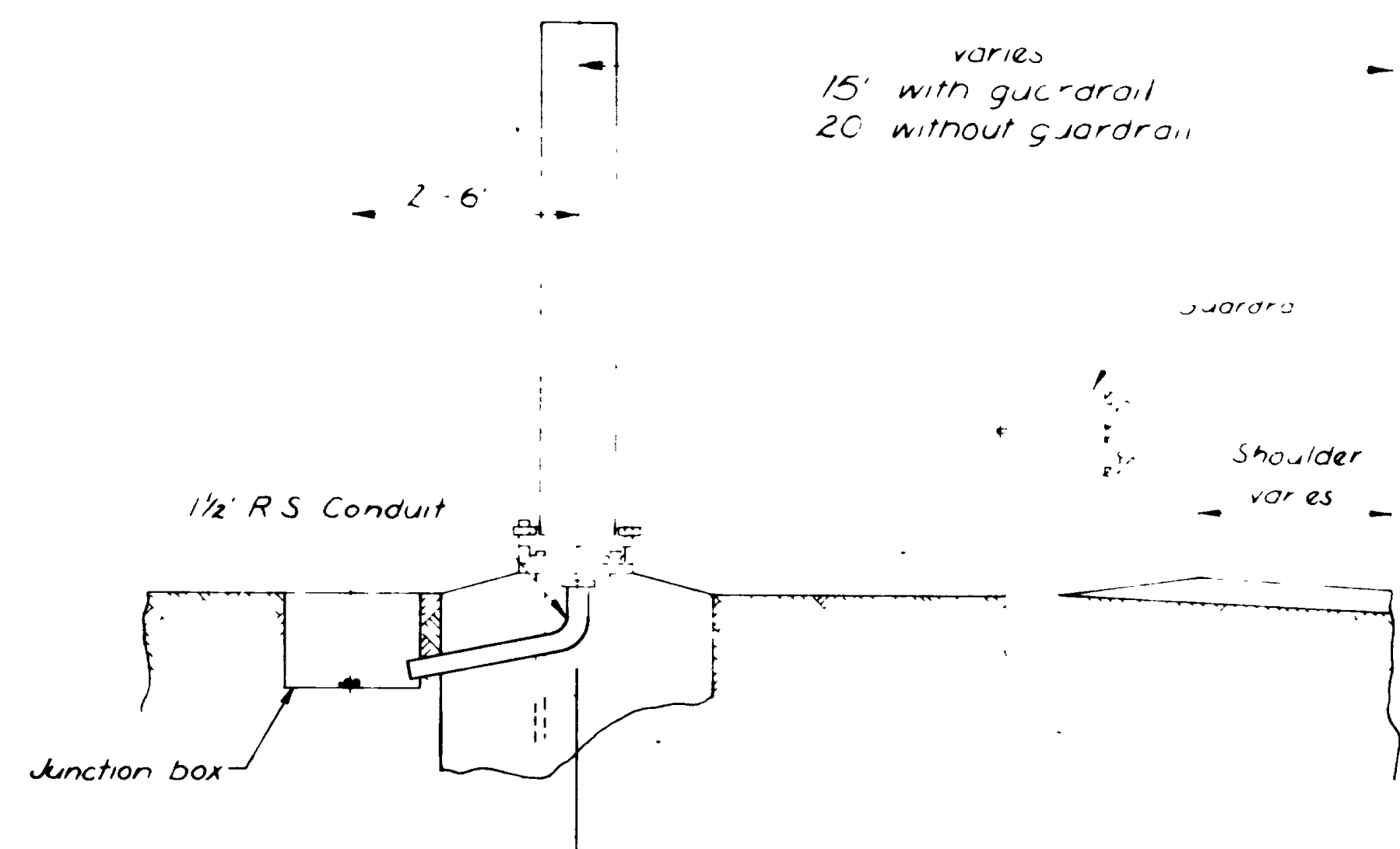
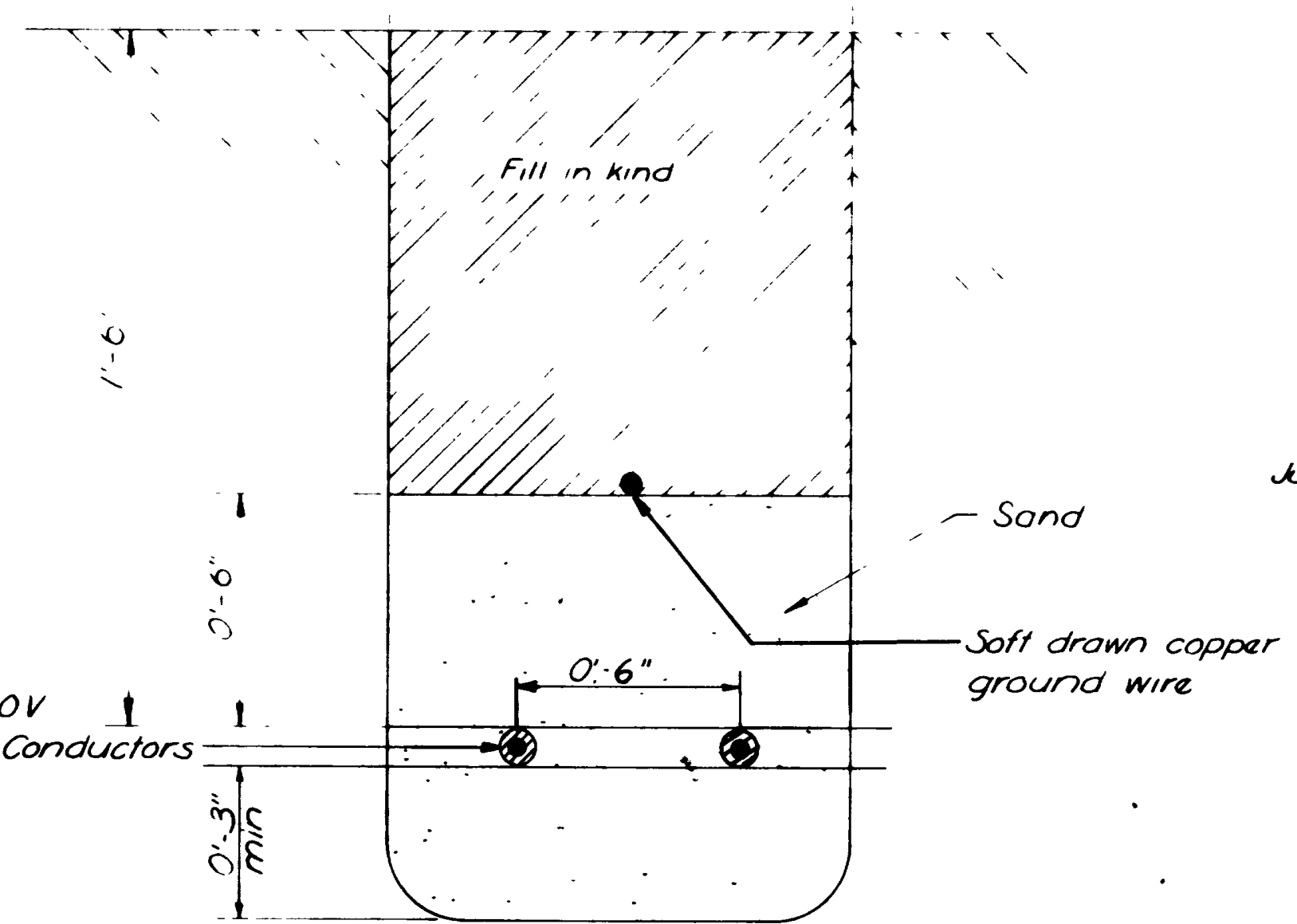
FUSE SCHEDULE

Circuit voltage	Fuse voltage Rating	Fuse Current Rating	
		175 Watts High Inrush Reg Output	400 Watts 250 Watts Reg Output
24V	25V	20*	15*
24V	25V	20*	15*
24V	25V	10*	10*

*Indicates delayed operation type fuse 1/2" x 1/2" L

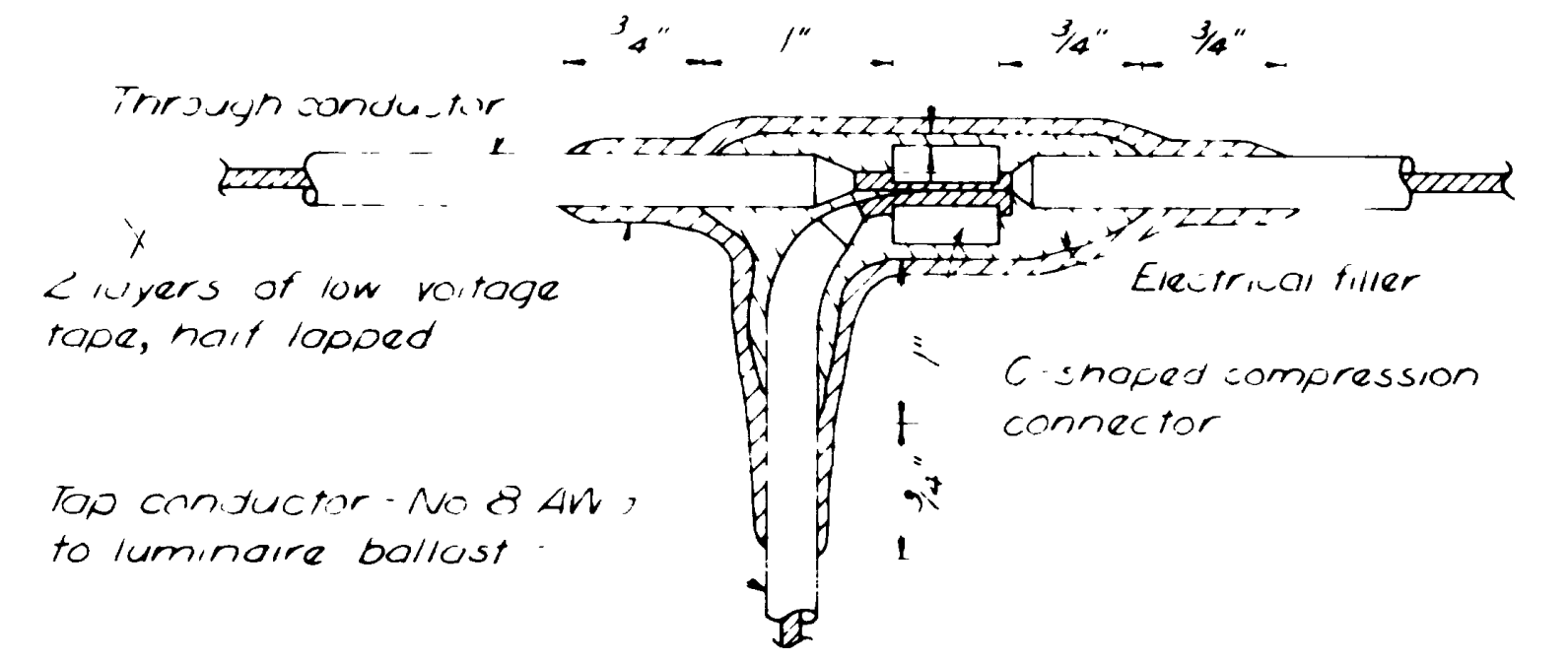
May vary to suit conventional trenching equipment

varies
 15' with guardrail
 20' without guardrail



SECTION A-A
 POLE FOUNDATION & JUNCTION BOX
 PLAN WITH OR WITHOUT GUARDRAIL

Compound thickness equal to insulation on through conductor



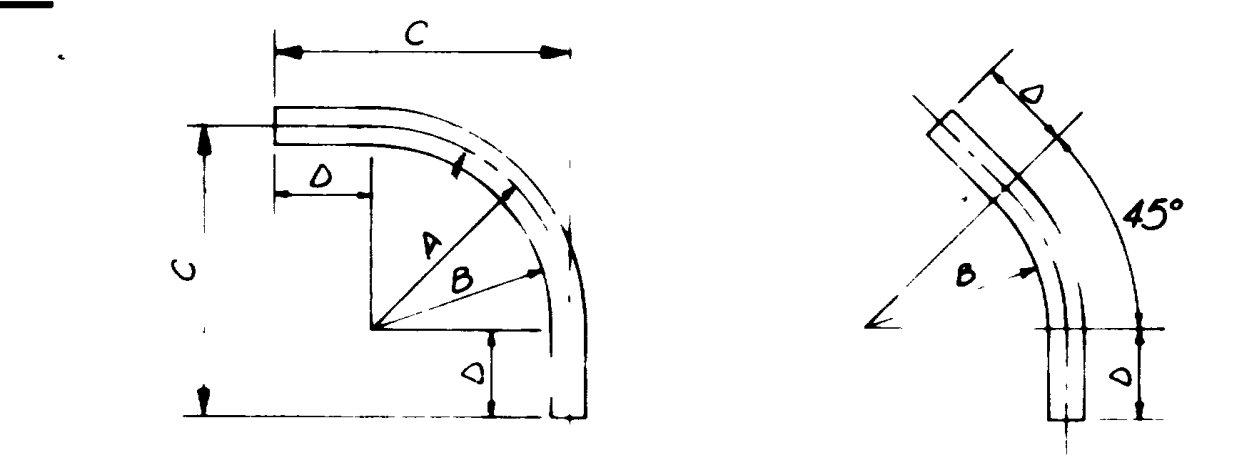
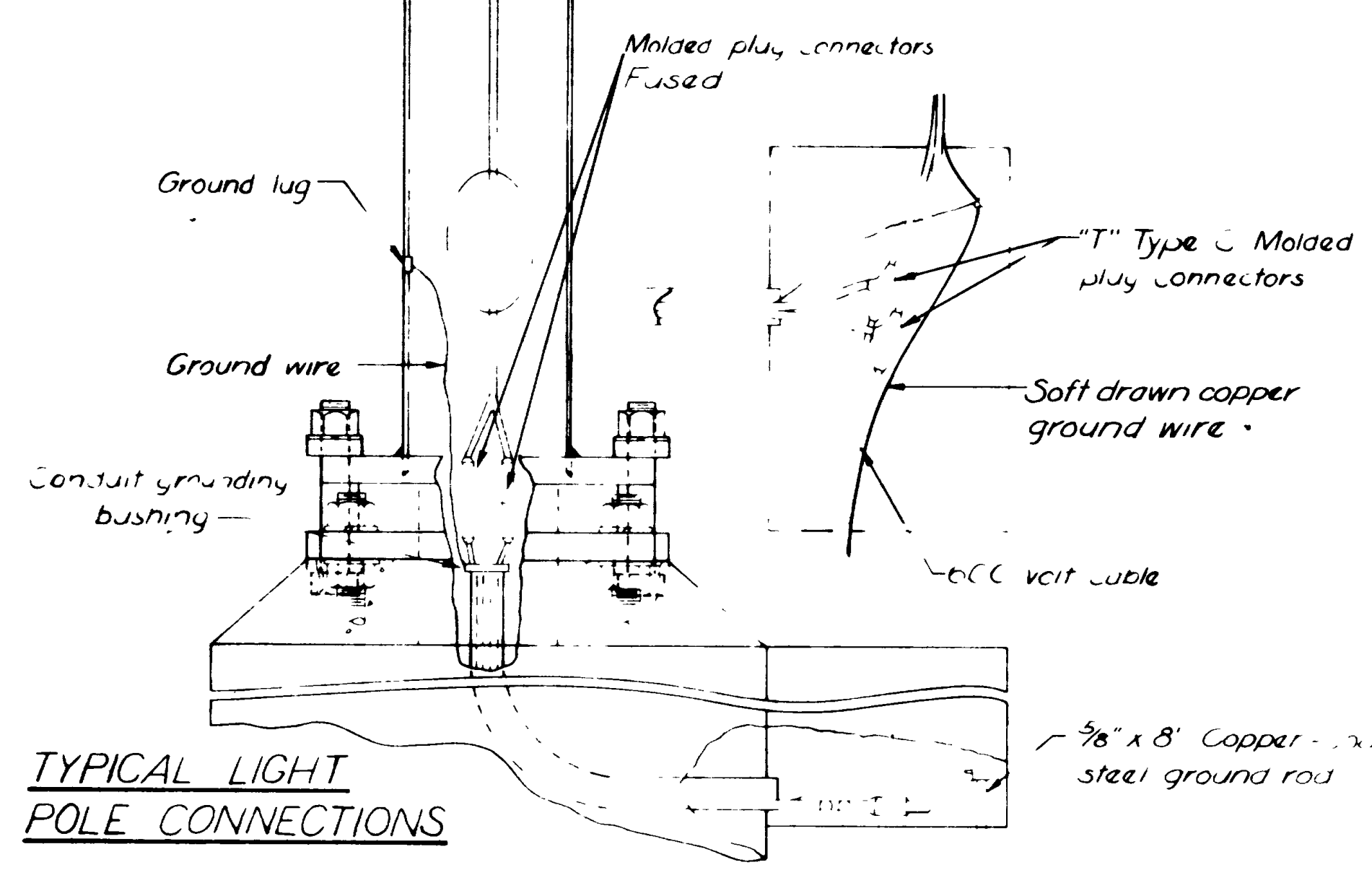
PROCEDURE - TYPE-C "T"-SPLICE

- 1- Remove insulation from through and top conductors as shown
- 2- Install proper size C-shaped connector and crimp with type tool recommended by connector manufacturer
- 3- Insulate as shown and as noted below

INSULATING METHOD

- 1- Apply one coat of rubber cement and allow to dry
- 2- Apply electrical filler compound and low voltage tape as shown
- 3- If PVC low voltage tape is used as final layer, paint finished splice with electrical insulating coating

TYPE-C "T"-SPLICE



Nom size I.D.	A Radius	B Radius	C Offset 90° Elbow	D Ton 90° Elbow & 45° Elbow
1/2"	4"	3 3/8"	6 3/4"	2 3/4"
3/4"	4 1/2"	4"	7 1/2"	3"
1"	5 3/8"	5 1/8"	8 3/4"	3"
1 1/4"	7 1/4"	6 1/8"	10 1/4"	3"
1 1/2"	8 1/4"	7 3/16"	12"	3 3/8"
2"	9 1/2"	8 9/16"	14 1/2"	5"
2 1/2"	10 1/2"	9 1/8"	15 1/2"	5"
3"	13"	11 1/4"	19 3/4"	6 3/8"
3 1/2"	15"	13"	22"	7"
4"	16"	13 3/4"	23"	7"

3/8" x 8' Copper - #12 steel ground rod

UTAH STATE DEPARTMENT OF HIGHWAYS
 SALT LAKE COUNTY
 TRAFFIC DIVISION

OGDEN INTERCHANGES
 INTERSTATE LIGHTING
 ELECTRICAL & CONDUIT DETAILS

DESIGNED BY **R.V.W.** DATE **5-8-70** PROJ NO **I-15-8(36)33B**
 DRAWN BY **D.L.J.** DATE **4-22-70** STA
 CHECKED BY **K.F.H.** DATE **6-18-70** COUNTY **Weber**
 APPROVAL RECOMM **6-30-70** DATE **6-30-70** **D. J. Zschaler**
 APPROVED DATE _____ CHIEF TRAFFIC ENGINEER

DWG NO **L-24** SHEET **5** OF **22**

REVISIONS

GENERAL NOTES

1. POLE
The light pole design contemplates the use of tapered metal poles of either steel (ASTM A-510-66T Grade L Galvanized, ASTM A-123) or aluminum (ASTM B-235-62 Alloy 6063-T6) at the option of the contractor. Other light pole materials may be acceptable subject to the approval of designs and drawings by the Chief Traffic Engineer. Shop drawings are required.

Bracket arm components and details shall be compatible with the type of pole utilized.

Poles and bracket arms shall meet the requirements of AASHTO "Specifications for the Design and Construction of Structural Supports for Highway Signs", 1968, for use with poles with 1/2" min. posts.

Allowable stresses:
Steel (ASTM A-510-66T) - $F_c = 26.4 \text{ ksi. (66 Fy)}$
Aluminum (Alloy 6063-T6) - $F_c = 13.4 \text{ ksi. (33 Fy)}$

Aluminum (Alloy 6063-T6) - $F_c = 6.5 \text{ ksi.}$
Basic Pole and Bolt design at size shall be the same for all poles throughout the project.

Light pole base fit shall match existing bolt circle when pole is located on structure.

2. ANCHOR BOLTS
All anchor bolts shall be 1" dia x 3'-0" min with top 5" threaded and shall meet ASTM A321-64 with regular square head or regular square nut tack welds and heavy hexagon nuts. Exposed portions of anchor bolts shall be galvanized in accordance with ASTM A-153.

3. BREAKAWAY BASE
Breakaway bases are required on all steel poles except where light poles are located on structures. See Sheet No. 9 for breakaway base details. Breakaway bases are not required for use with aluminum poles when pole shaft is welded to shaft base of Aluminum Alloy 356-T6 (ASTM B-108, SG 70A-T6) so as to create a weakened plane.

4. LUMINAIRE
Light pole design shall be for luminaire weight of 75 lbs and a projected area of 33 square feet unless a heavier luminaire is utilized.

5. POLE HEIGHT is defined as the vertical distance from the top of foundation to the light center of the luminaire.

6. Anchor bolts shall not be welded to reinforcing steel.

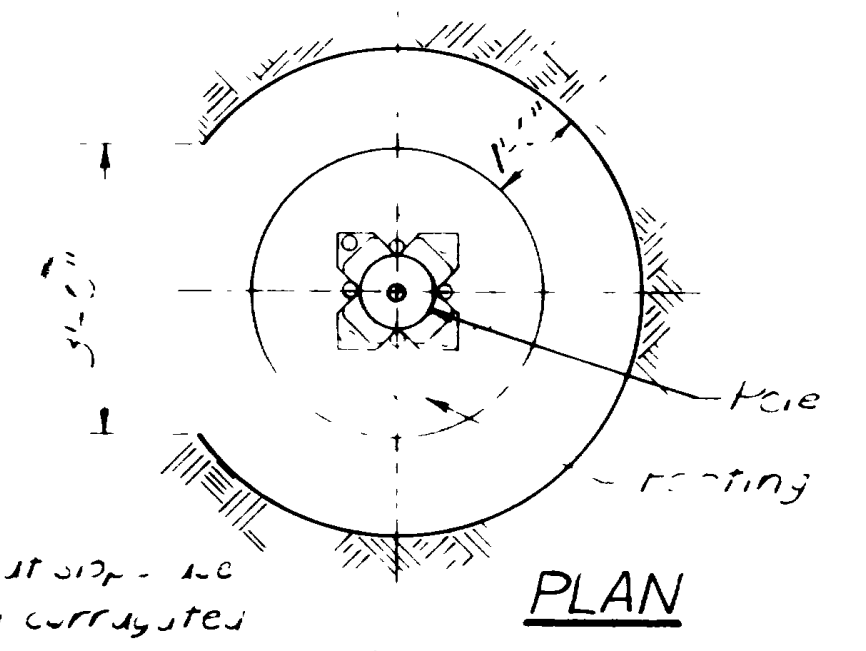
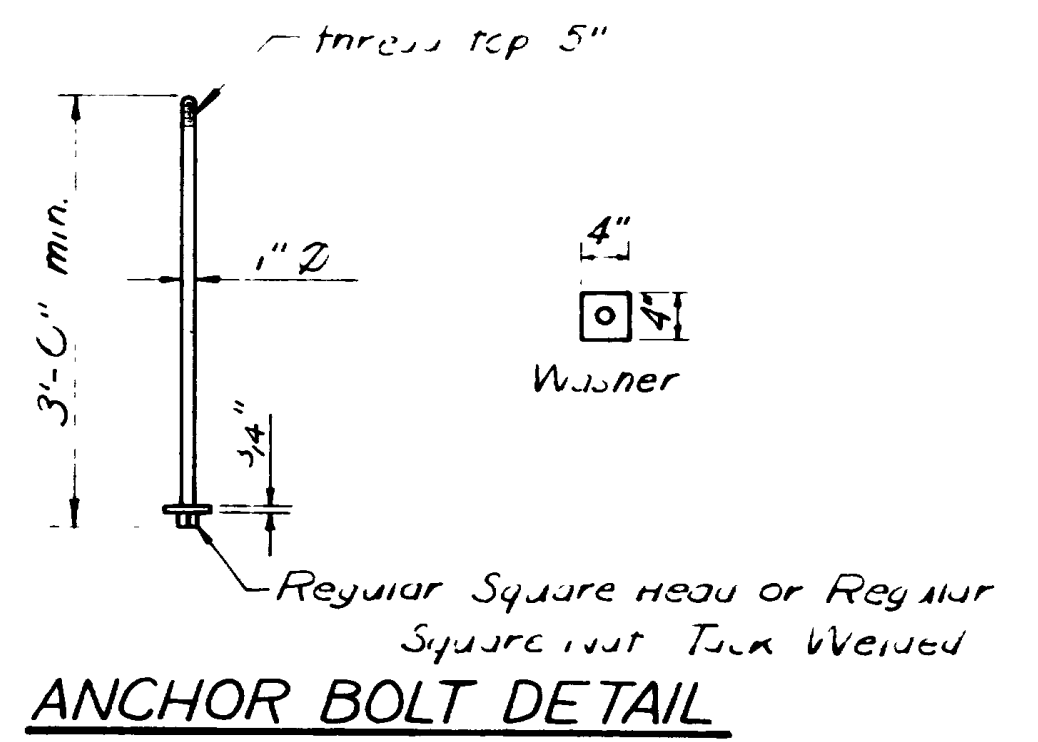
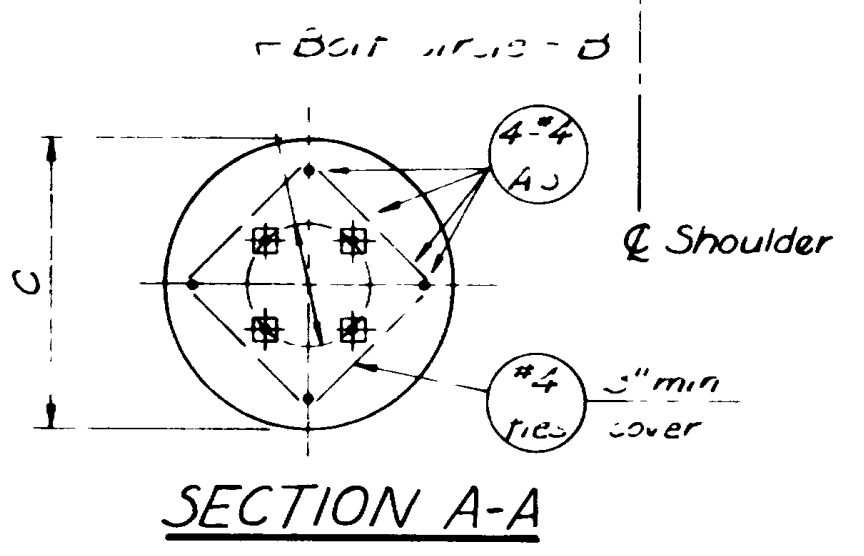
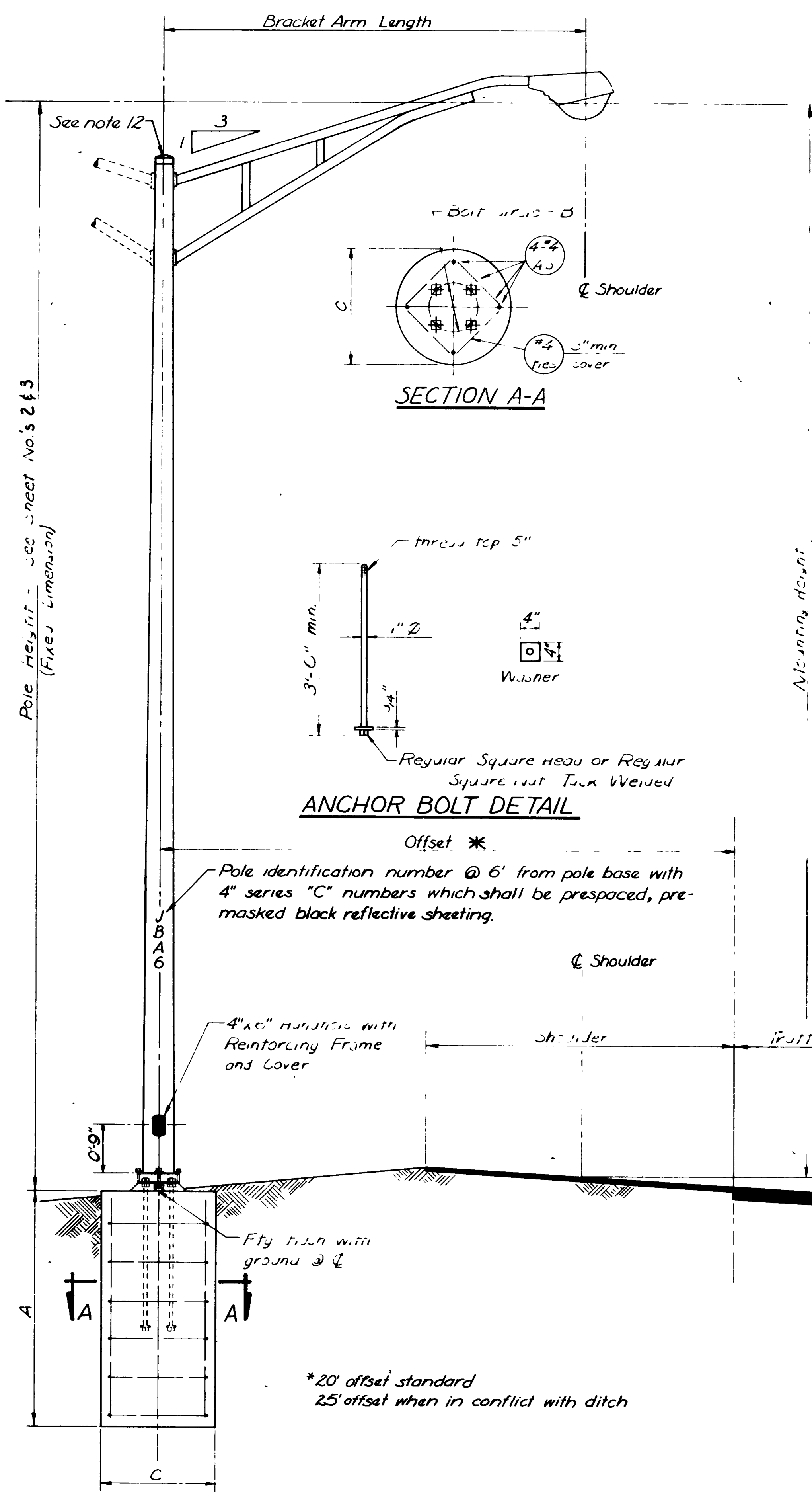
7. Pole heights less than or equal to 35 feet shall be paid for as 35 foot poles. Pole heights greater than or equal to 45 feet shall be paid for as 45 foot poles. All other pole heights shall be paid for as 40 foot poles.

8. All foundations shall be cast in place in augered holes.

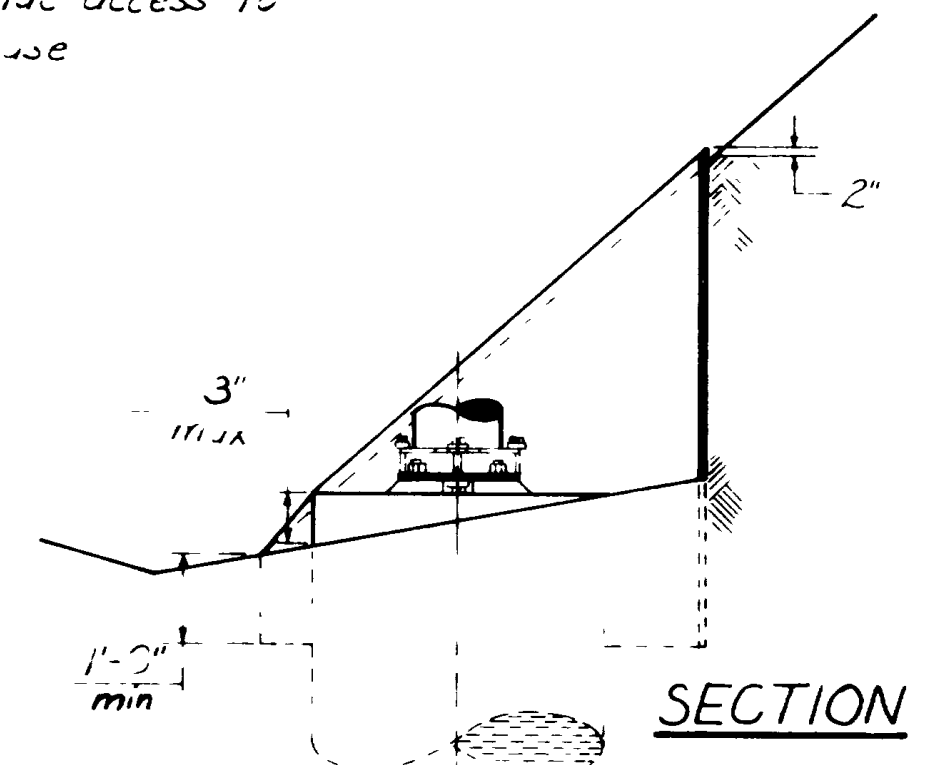
9. All brackets shall be oriented at right angles to survey line of road.

10. Offset is defined as the distance from the edge of traveled way to the center of light pole.

11. Center shaft top over center of foundation after bracket arm, luminaire and all electrical accessories are in place.



To retain cut slope, use galvanized corrugated metal pipe cut as indicated to provide access to pole base.



TYPICAL INSTALLATION OF POLE IN CUT BACK-SLOPE

STEEL POLE (ASTM A-510-66T OR U)						
Pole Height	Bracket Arm Length	Shaft Bottom to Top	Min Wall Thickness	Bolt Circle	Footing	
					B	A
32'-6"	8'-0"	8'-5"	1495	16" Δ	6'-0"	30"
to	12'-0"	8'-5"	1495	16" Δ	6'-0"	30"
35'-0"	20'-0"	8'-5"	1495	16" Δ	6'-0"	30"
37'-6"	8'-0"	9'-0"	1495	16" Δ	8'-0"	36"
to	12'-0"	9'-0"	1495	16" Δ	8'-0"	36"
40'-0"	20'-0"	9'-0"	1495	16" Δ	8'-0"	36"
42'-6"	8'-0"	10'-0"	1495	16" Δ	8'-0"	36"
to	12'-0"	10'-0"	1495	16" Δ	8'-0"	36"
47'-6"	20'-0"	10'-0"	1793	16" Δ	8'-0"	36"

ALUMINUM POLE (ALLOY 6063-T6)						
Pole Height	Bracket Arm Length	Shaft Bottom to Top	Min Wall Thickness	Bolt Circle	Footing	
					B	A
32'-6"	8'-0"	8'-0"	1688	16" Δ	6'-0"	30"
to	12'-0"	8'-0"	1688	16" Δ	6'-0"	30"
35'-0"	20'-0"	8'-0"	1688	16" Δ	6'-0"	30"
37'-6"	8'-0"	8'-0"	1688	16" Δ	8'-0"	36"
to	12'-0"	8'-0"	1688	16" Δ	8'-0"	36"
40'-0"	20'-0"	8'-0"	1688	16" Δ	8'-0"	36"
42'-6"	8'-0"	10'-0"	1688	16" Δ	8'-0"	36"
to	12'-0"	10'-0"	1688	16" Δ	8'-0"	36"
47'-6"	20'-0"	10'-0"	1688	16" Δ	8'-0"	36"

*20' offset standard
25' offset when in conflict with ditch

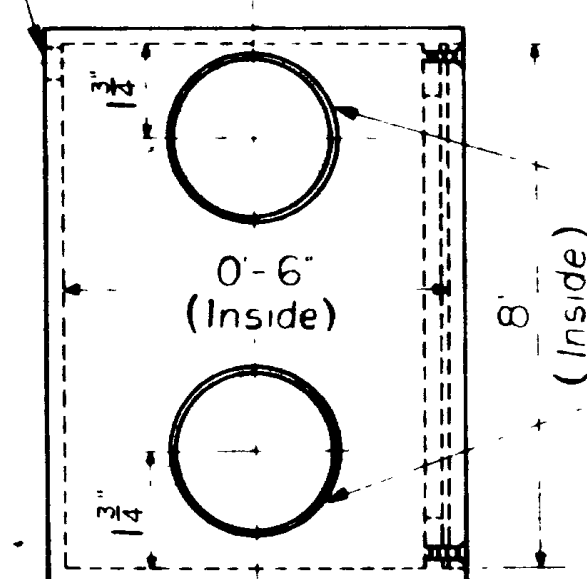
DESIGNED: R.V.M. DATE: 5-8-70	PROJ NO: I-15-B(36)33B
DRAWN: D.L.V. DATE: 4-22-70	STA:
CHECKED: K.F.H. DATE: 6-18-70	COUNTY: Weber
APPROVAL RECOMM: 6-30-70	DATE: 6-30-70
APPROVED: [Signature]	DATE: [Signature]
NO. BY DATE	REMARKS
REV	NO. DATE

UTAH STATE DEPARTMENT OF HIGHWAYS
SALT LAKE CITY, UTAH
TRAFFIC DIVISION
OGDEN INTERCHANGES
INTERSTATE LIGHTING
LIGHT POLE DETAILS

DESIGNED: R.V.M. DATE: 5-8-70
DRAWN: D.L.V. DATE: 4-22-70
CHECKED: K.F.H. DATE: 6-18-70
APPROVAL RECOMM: 6-30-70
APPROVED: [Signature] DATE: [Signature]

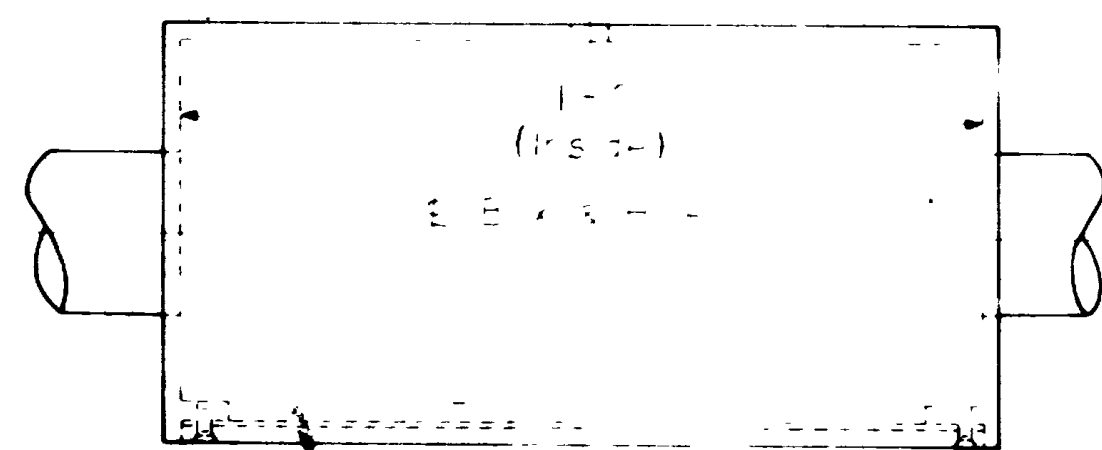
DWG NO: L-24 SHEET: 6 OF 22

Drill thru & tap for $\frac{1}{2}$ " drain pipe
End of drain pipe, when installed
must be flush with inside surface
of box

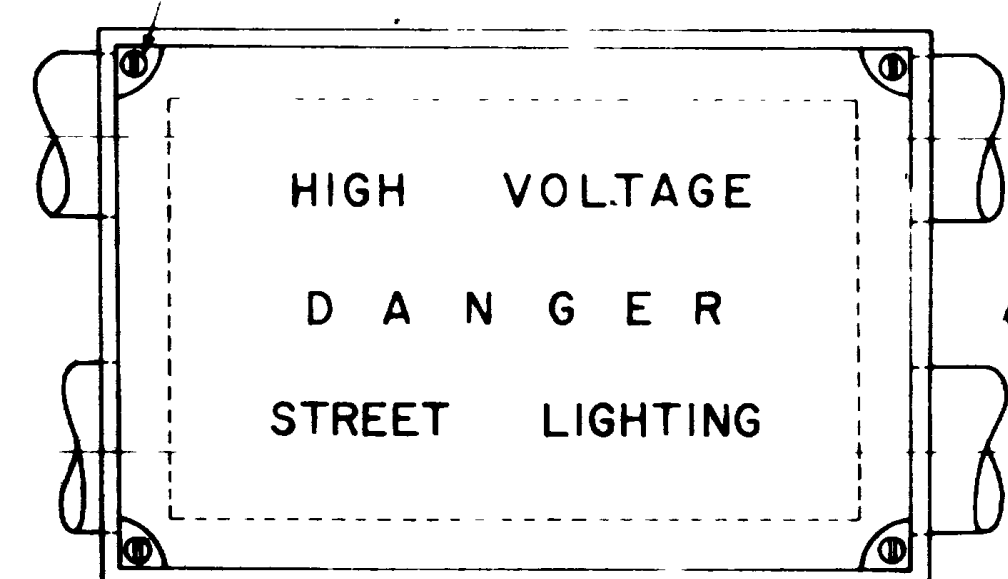


Drill thru & tap for
2 conduit - 4 holes

TYPE I



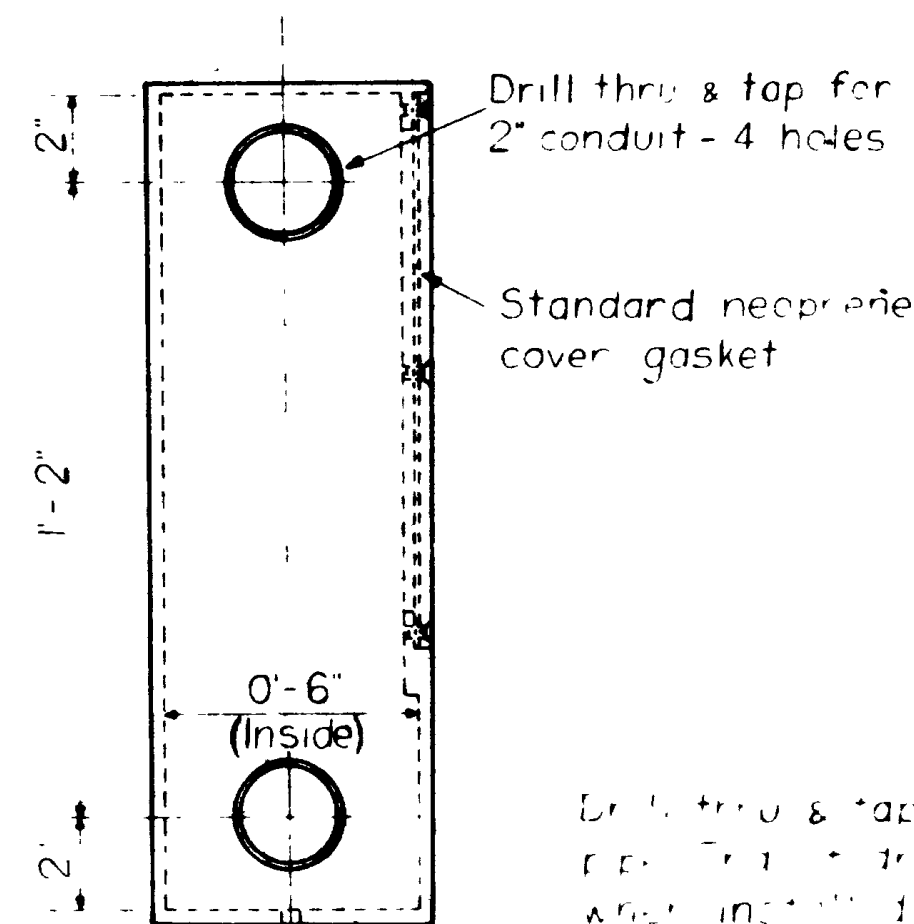
4 - Brass flat head machine screws
 $\frac{1}{4}$ - 20 NC - 2 $\frac{1}{2}$ lg



Note:
Steel cover with recessed
or embossed lettering

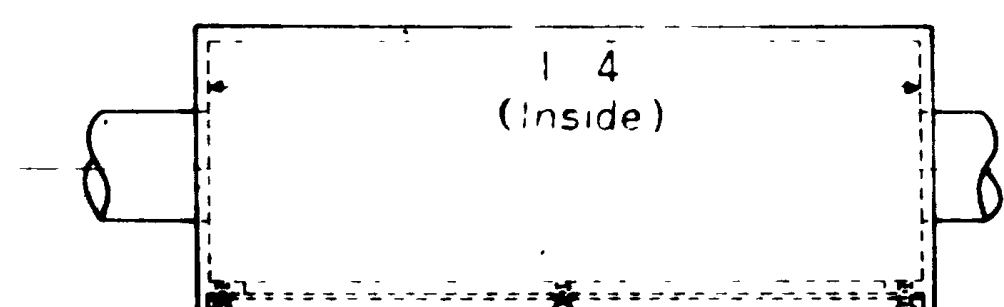
TYPE II

Note
For use in concrete section of parapet
adjacent to light pole (bracket "B")
for furnishing power to under-
structure circuit
Steel cover with recessed
or embossed lettering

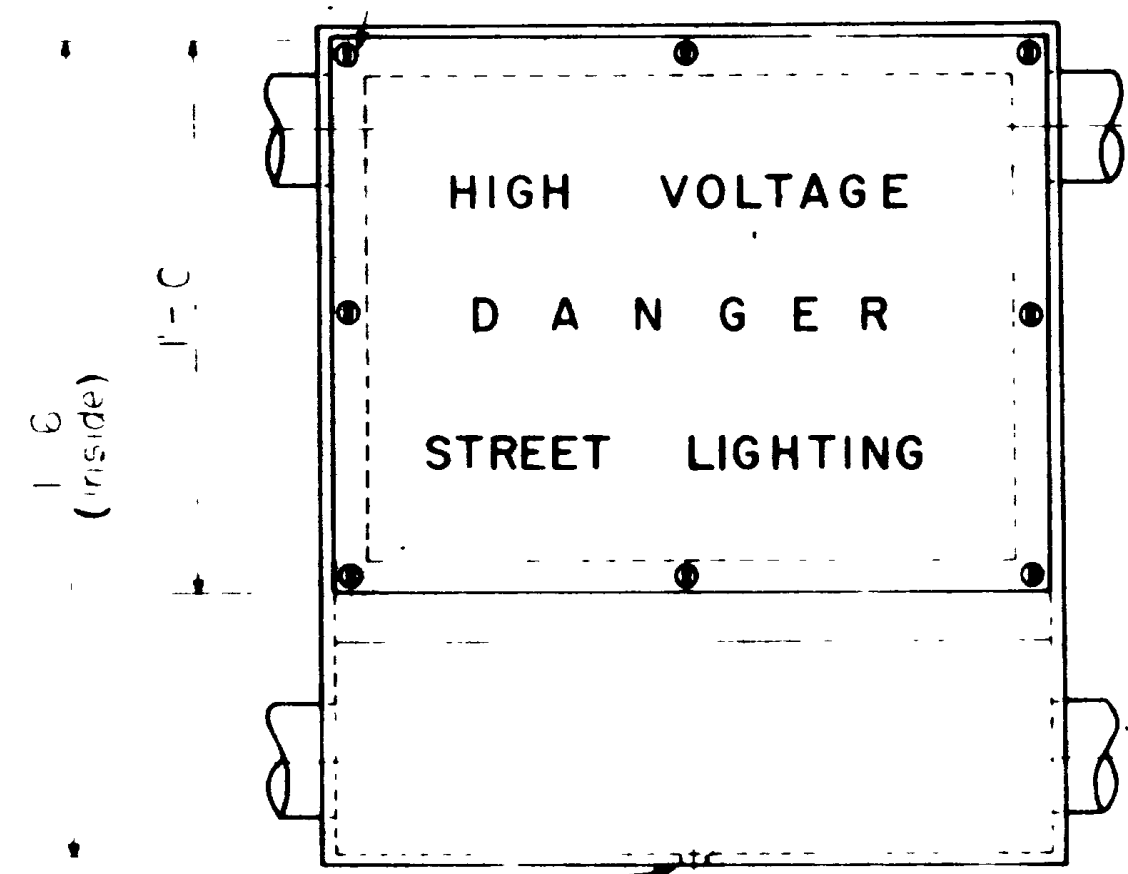


Drill thru & tap for $\frac{1}{2}$ " drain
pipe. End of drain pipe
when installed must be flush
with inside surface of box

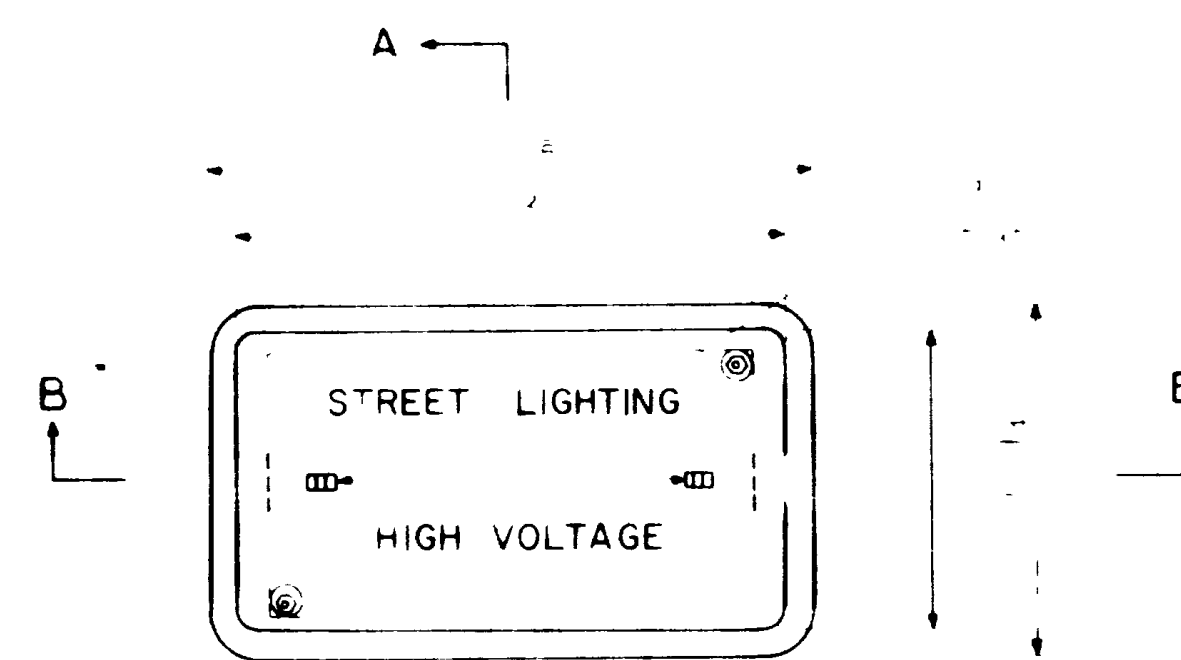
TYPE II



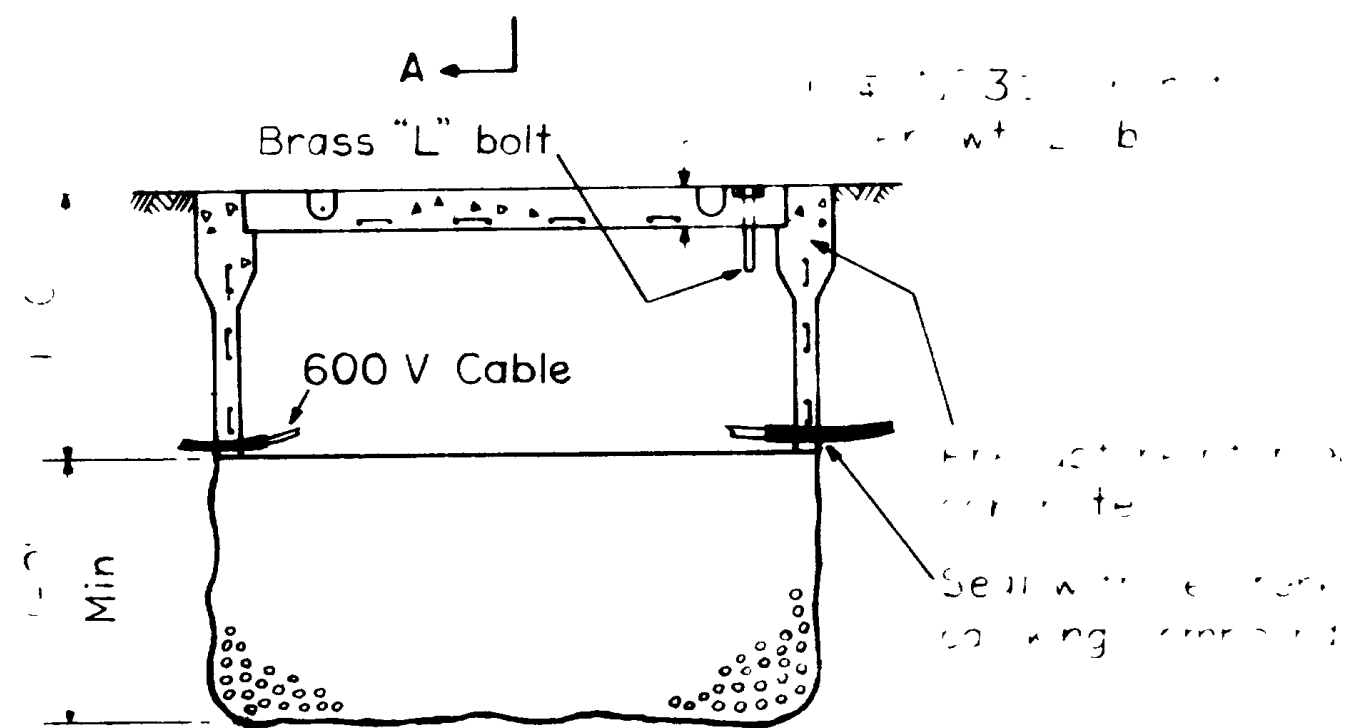
8 - Brass flat head machine screws
 $\frac{1}{4}$ - 20 NC - 2 $\frac{1}{2}$ lg



TYPE IV

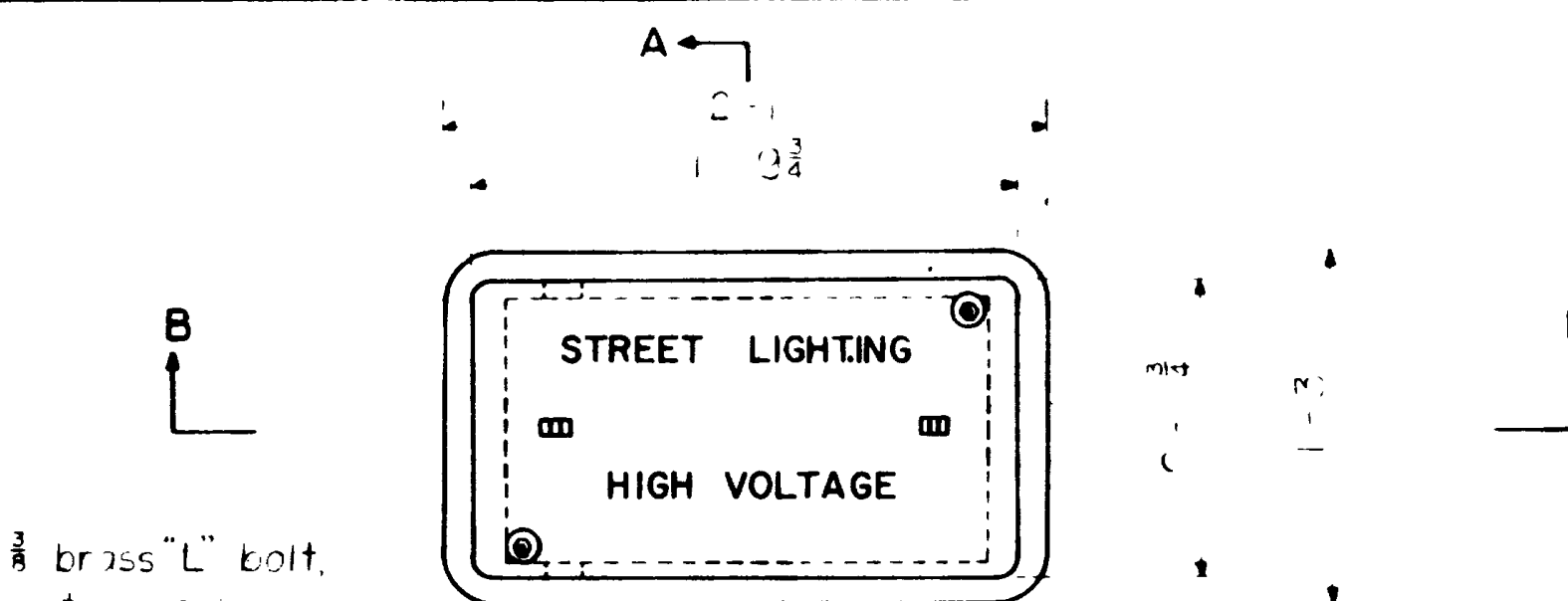


Section B-B



Section A-A

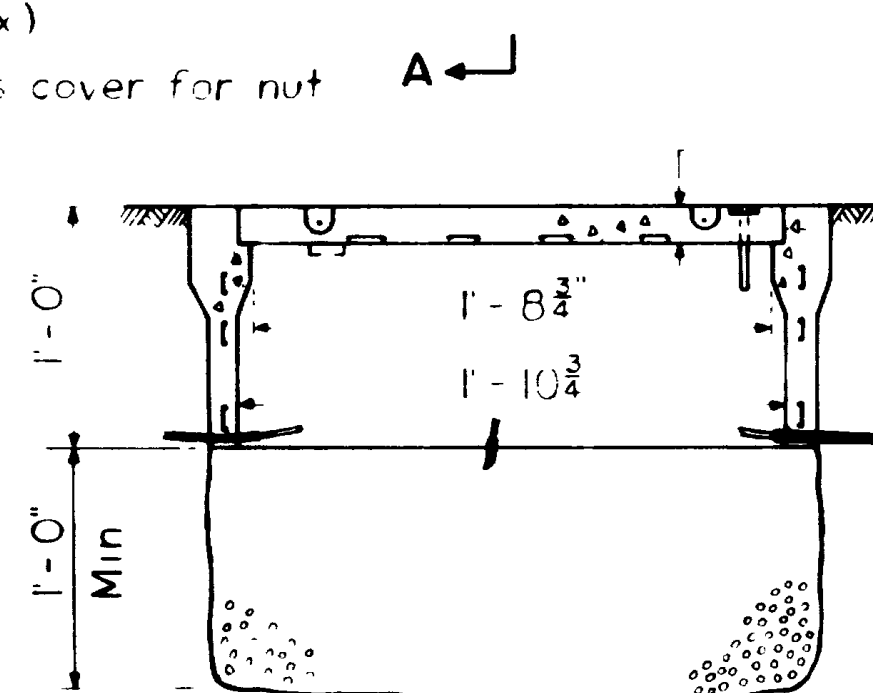
TYPE III



Section B-B

$\frac{3}{8}$ brass "L" bolt,
nut & washer
(2 per box)

Recess cover for nut

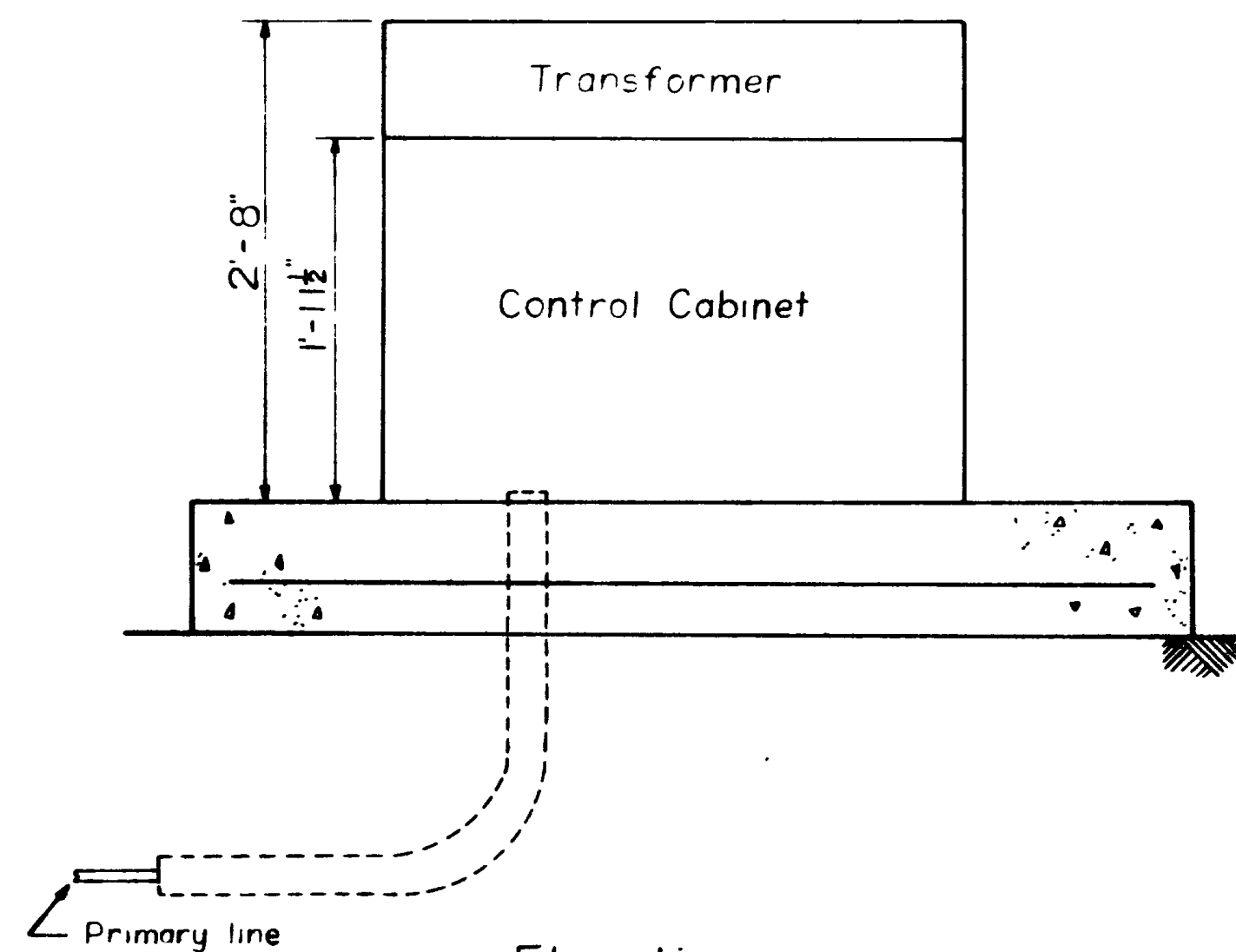


Section A-A

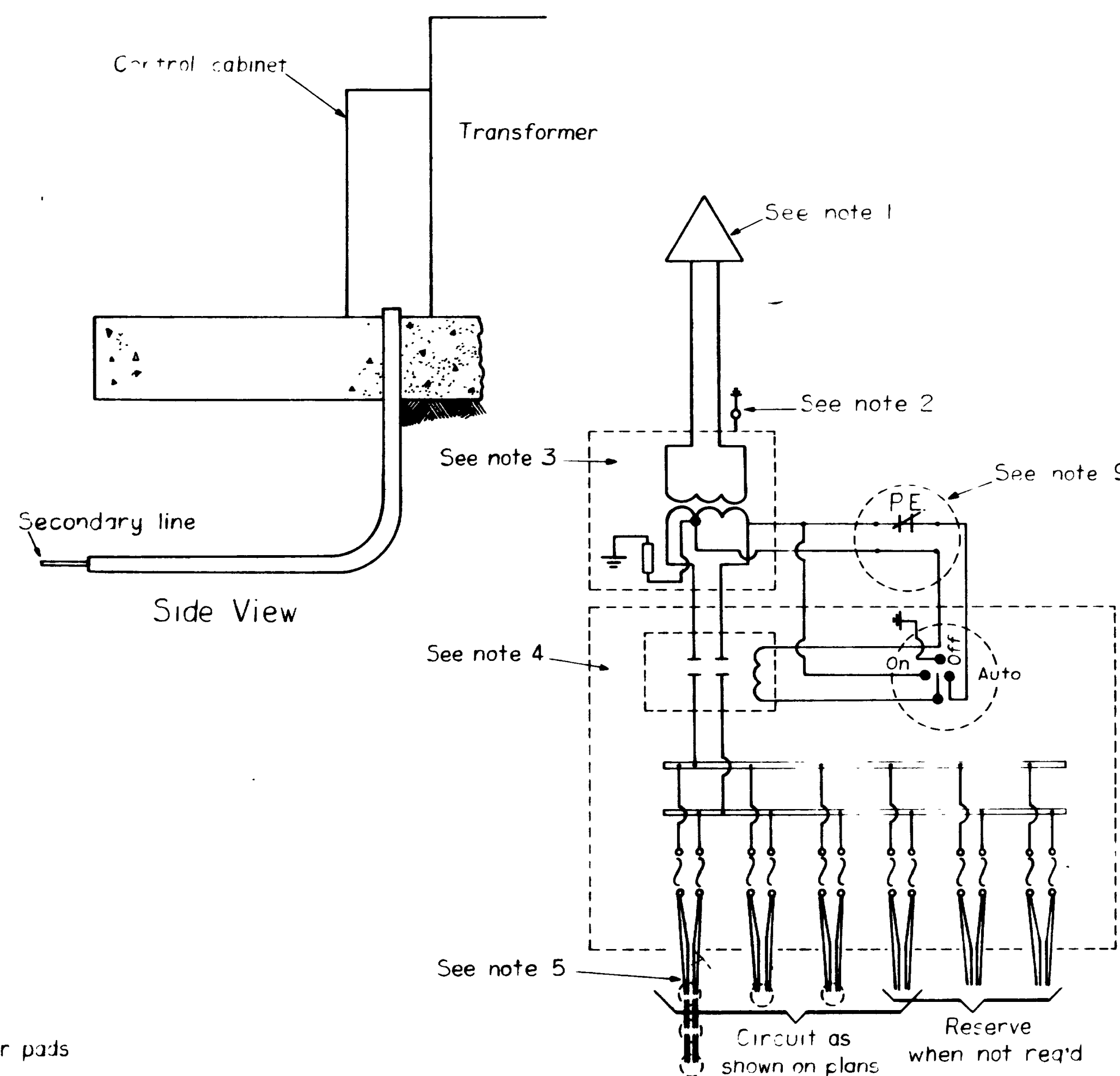
TYPE IV

1. The junction box shall be made of steel plate not less than 1/8 inch thick.
2. The junction box shall be painted with a heavy coat of red lead paint on the inside and a heavy coat of black paint on the outside.
3. The junction box shall be provided with a standard hinged cover which shall be secured with two brass bolts and nuts.
4. The junction box shall be provided with a standard gasket to prevent leakage of oil or other liquids.
5. The junction box shall be provided with a standard base which shall be secured with four screws.

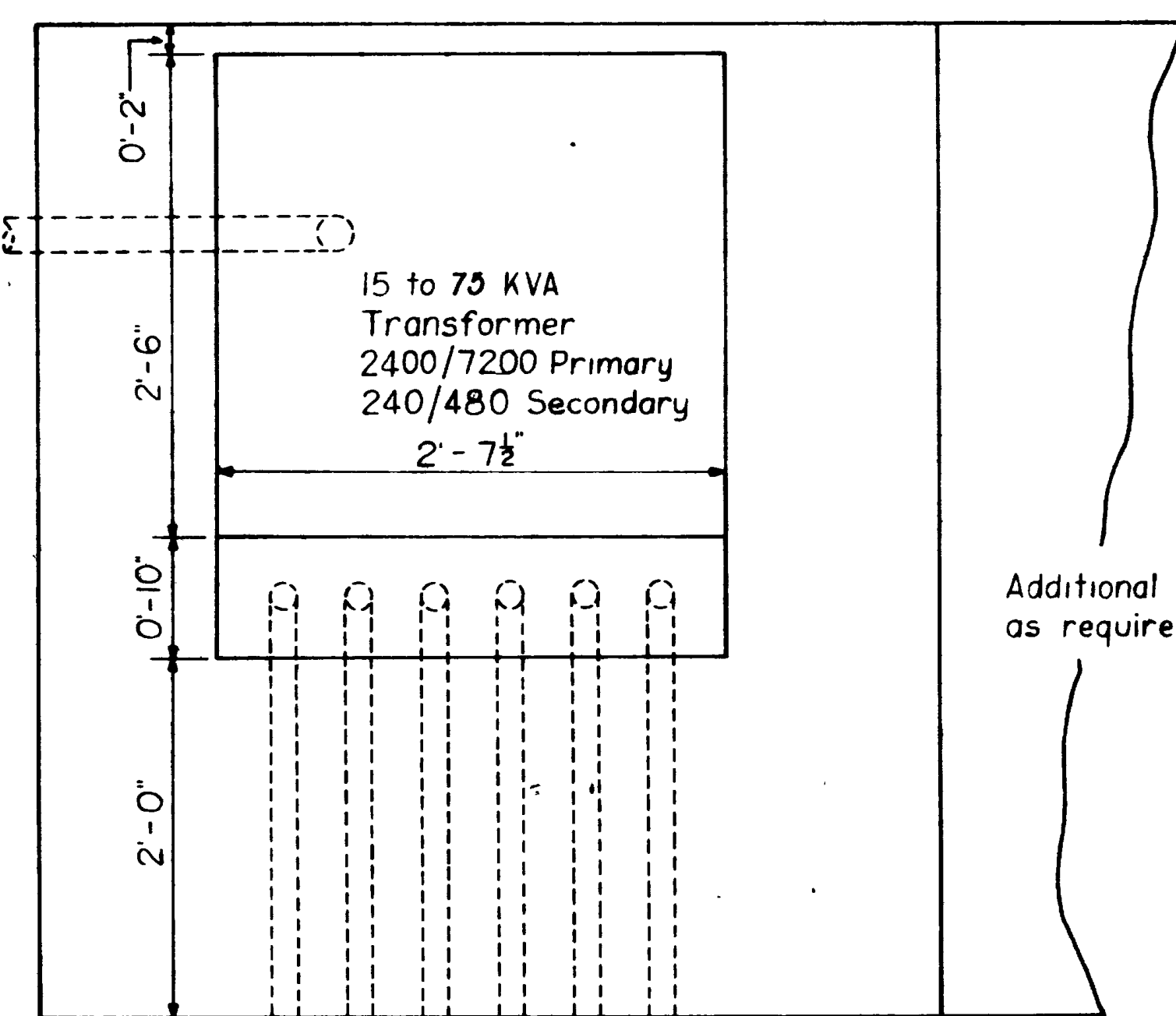
UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DIVISION			
OGDEN INTERCHANGES			
INTERSTATE LIGHTING			
ELECTRICAL JUNCTION BOX DETAILS			
DESIGNED BY R.V.W.	DATE 5-8-70	PROJ. NO. I-15-B(16)33B	
DRAWN BY E.H.	DATE 4-22-70	STA.	
CHECKED BY KEH	DATE 6-18-70	COUNTY Weber	
APPROVED BY W.W.	DATE 6-30-70	<i>W.W.</i>	
APPROVED	DATE	CITY	TRAFFIC ENGINEER
DWG NO. L-24	SHEET 7 OF 22		



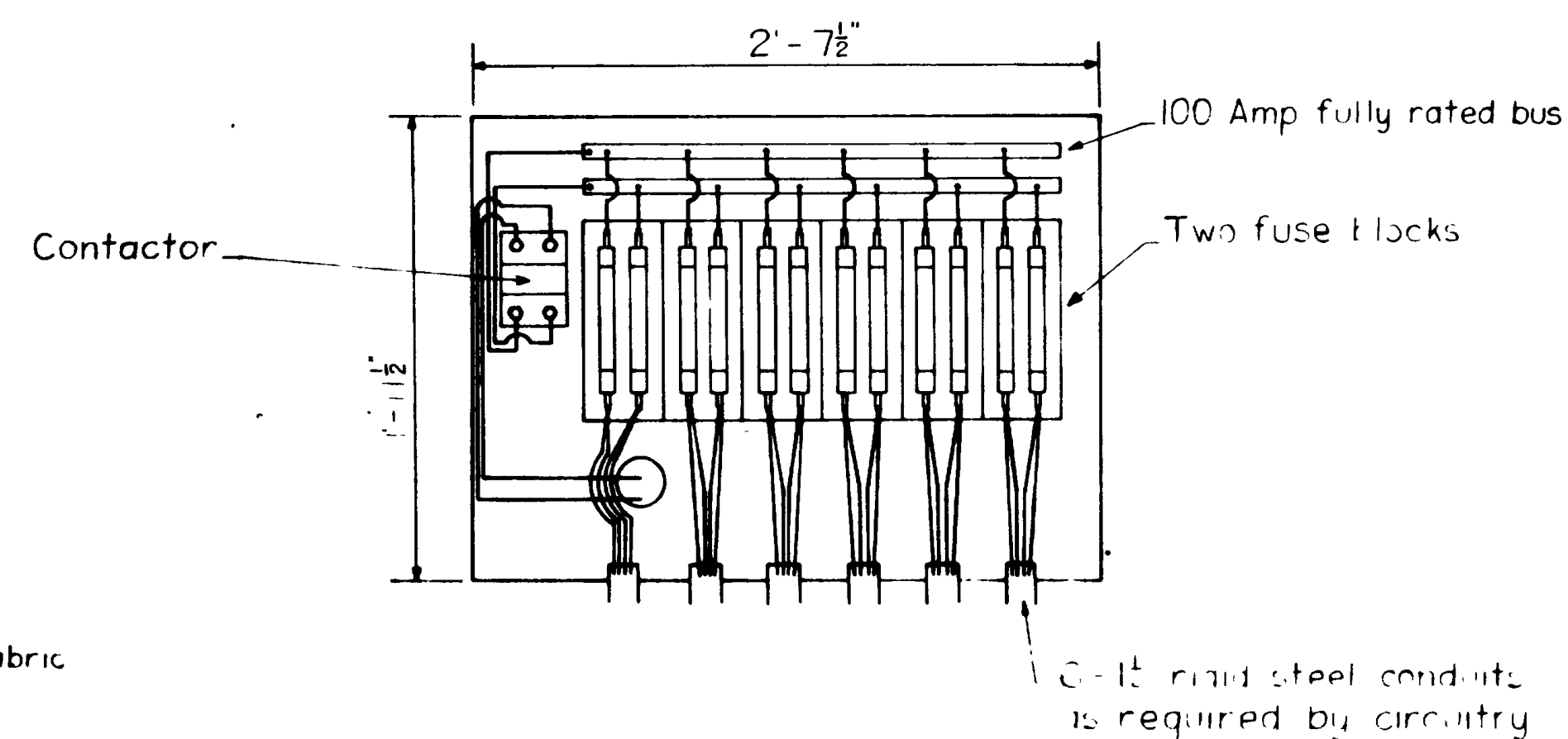
Elevation



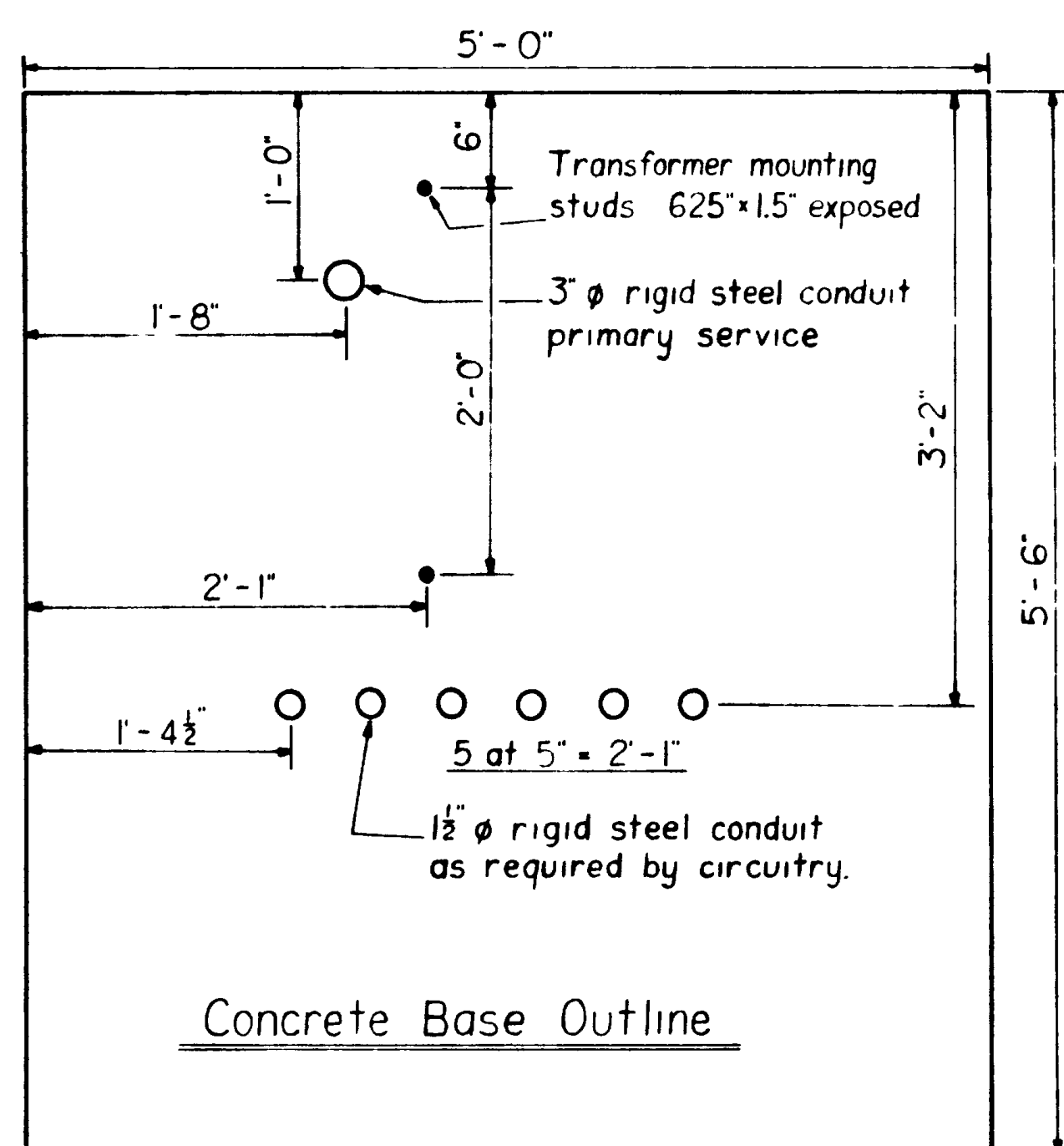
Schematic Connection Diagram



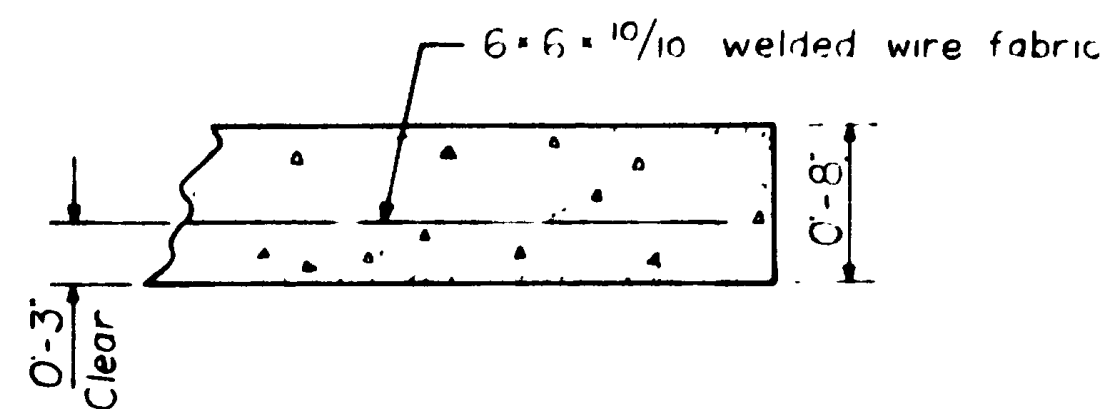
Plan



Lighting Switch Assembly



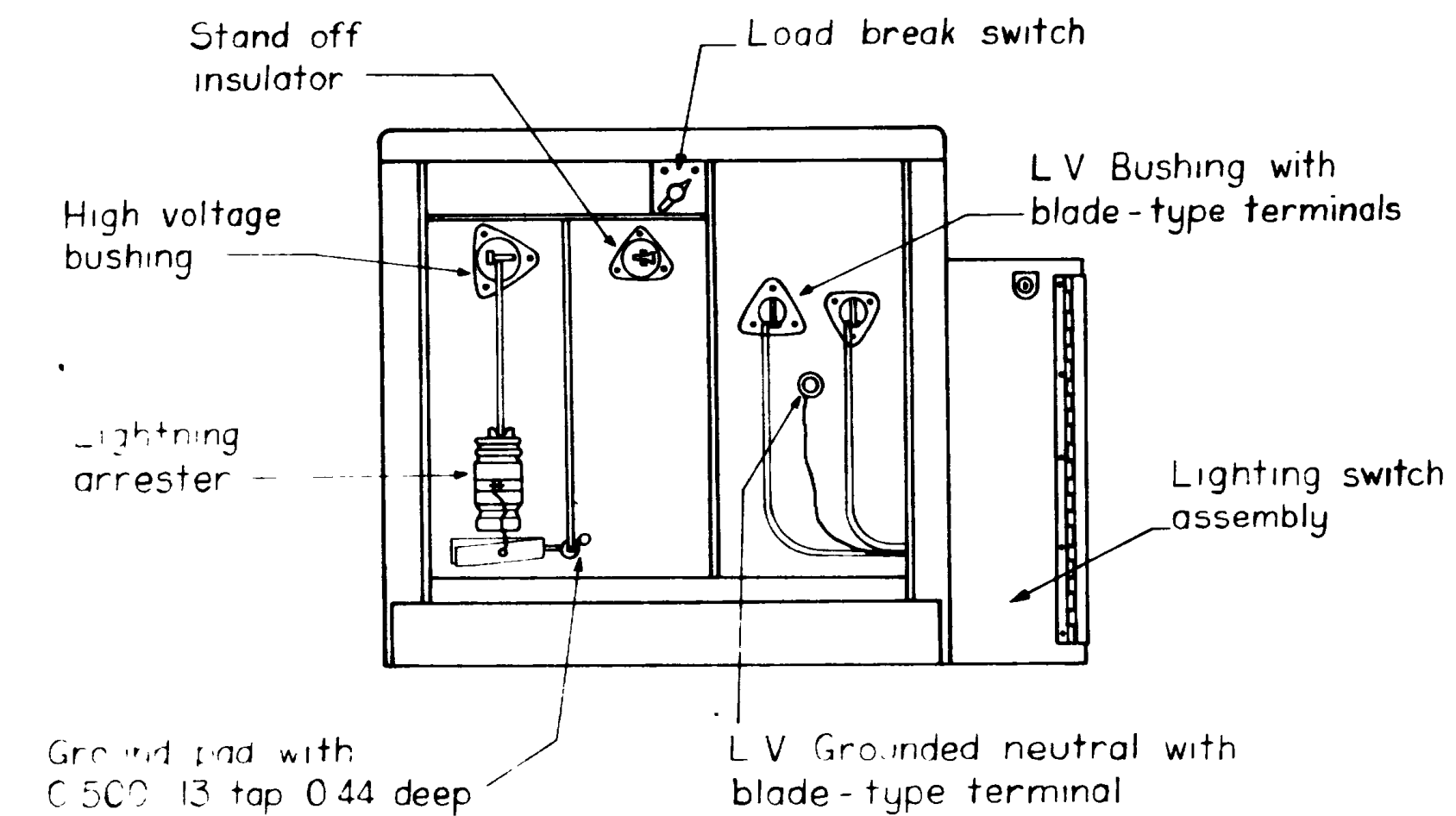
Concrete Base Outline



Reinforced Concrete

General Notes

1. Power company service point 2400 or 7200 volt single phase with disconnecting provisions. Power company to run underground cable connection in contractor installed conduit to transformers high voltage terminals.
2. Transformer frame must be sufficiently grounded.
3. End-mounted transformer with dead front design with integral lightning arrester with 240/480 volt secondary.
4. Lighting switch assembly - transformer mounted with load face blocks & conduits for circuits per plan.
5. Individual lighting circuits in conduit per plans.
6. Concrete shall be class A concrete (AE).
7. Substation pad location shall be well drained. Exact location of pad & junction boxes shall be determined by engineer.
8. For radius bend in conduit see Sheet No 5.
9. Photo electric control with strap mounting receptacle base for mounting at top of nearest pole. Include control circuits in lighting circuit conduit.
10. Transformer shall be a dual voltage primary 4160Y/2400 X 12470Y/7200.

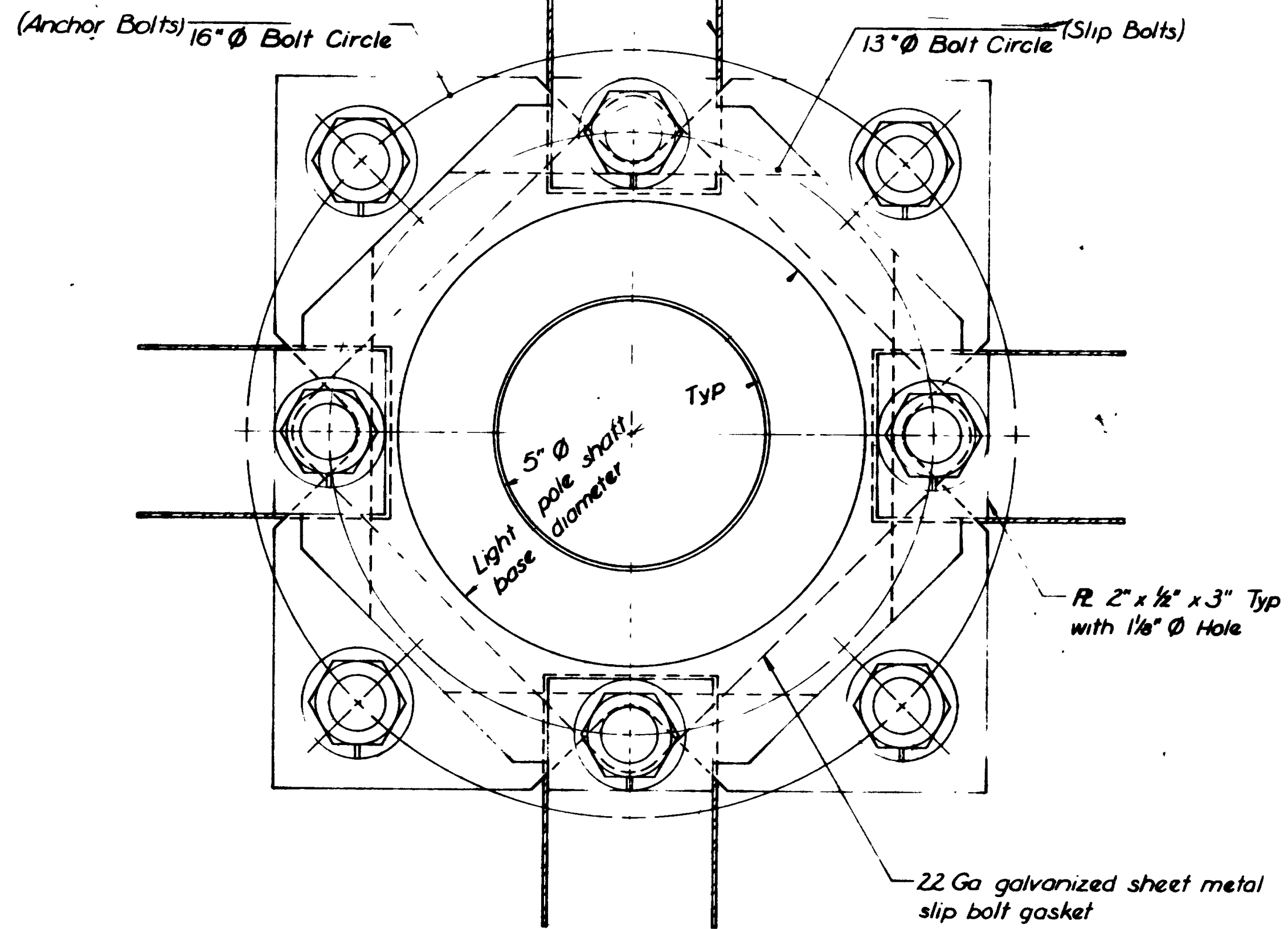


Front View (With Open Door)

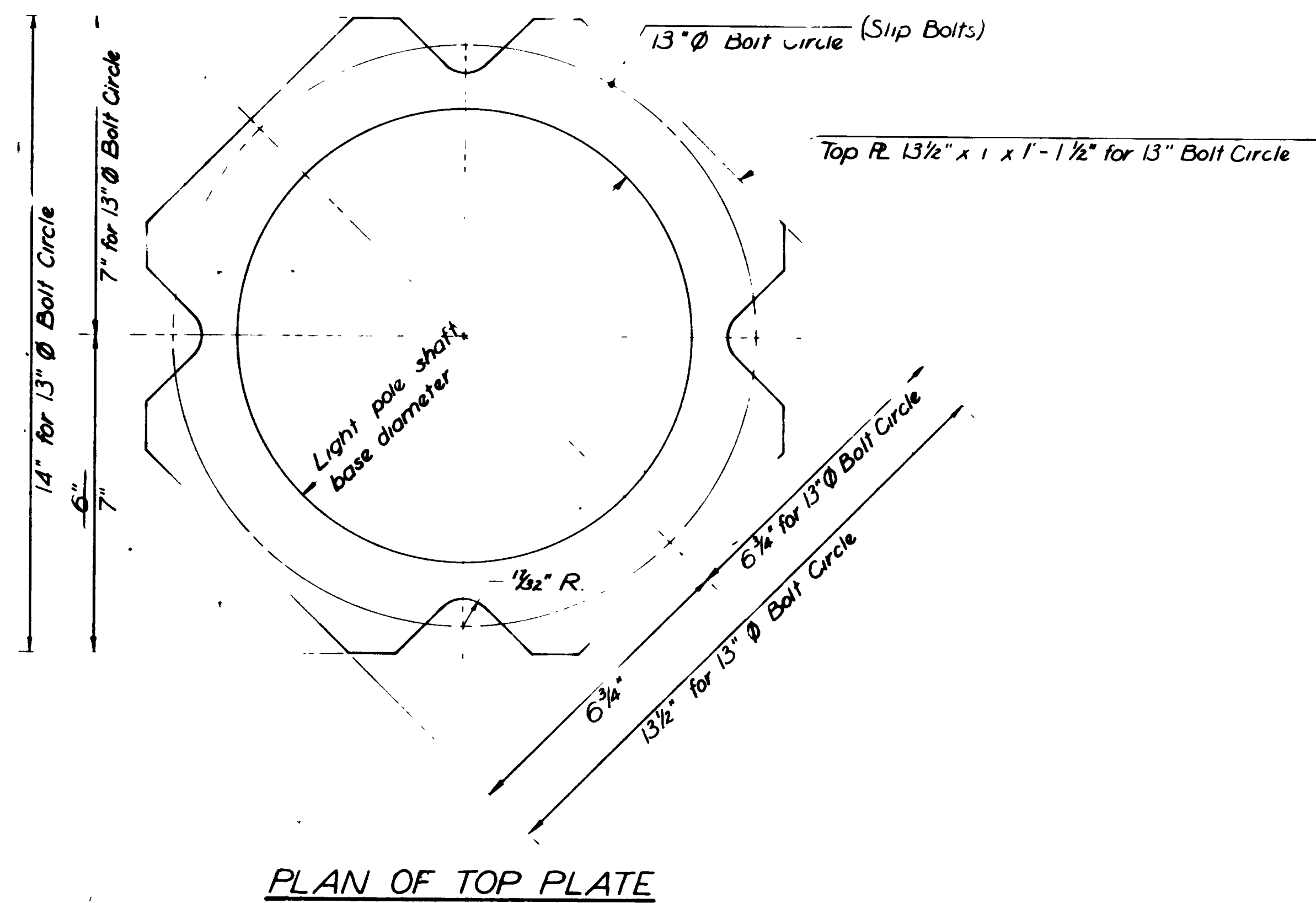
UTAH STATE DEPARTMENT OF HIGHWAYS			
SALT LAKE CITY, UTAH			
TRAFFIC DIVISION			
OGDEN INTERCHANGES			
INTERSTATE LIGHTING			
TRANSFORMER SUBSTATION			
DESIGNED R.V.W.	DATE 5-8-70	PROJ NO I-15-B(36)338	
DRAWN E.P.	DATE 4-22-70	STA	
CHECKED K.F.H.	DATE 6-18-70	COUNTY Weber	
APPROVAL RECOMM	DATE 6-30-70	DATE	
APPROVED	DATE	CHIEF TRAFFIC ENGINEER	
NO.	BY	DATE	REMARKS
REVISIONS			
DWG. NO.	L-24		SHEET 8 OF 22

NO.	BY	DATE	REMARKS
REVISIONS			

22 Ga. galvanized sheet metal to keep grout from slip bolts.



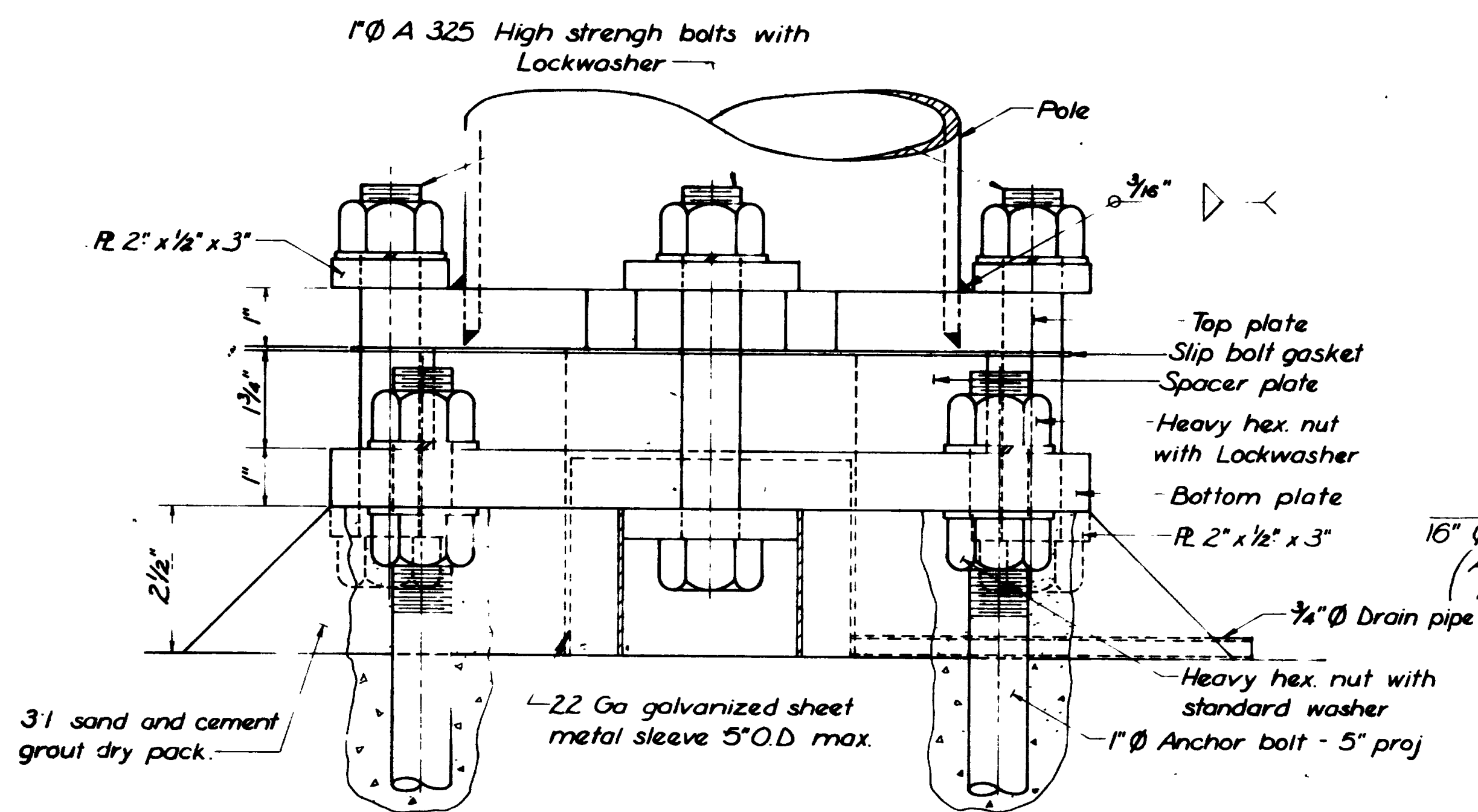
PLAN
(Pole not shown in Plan View)



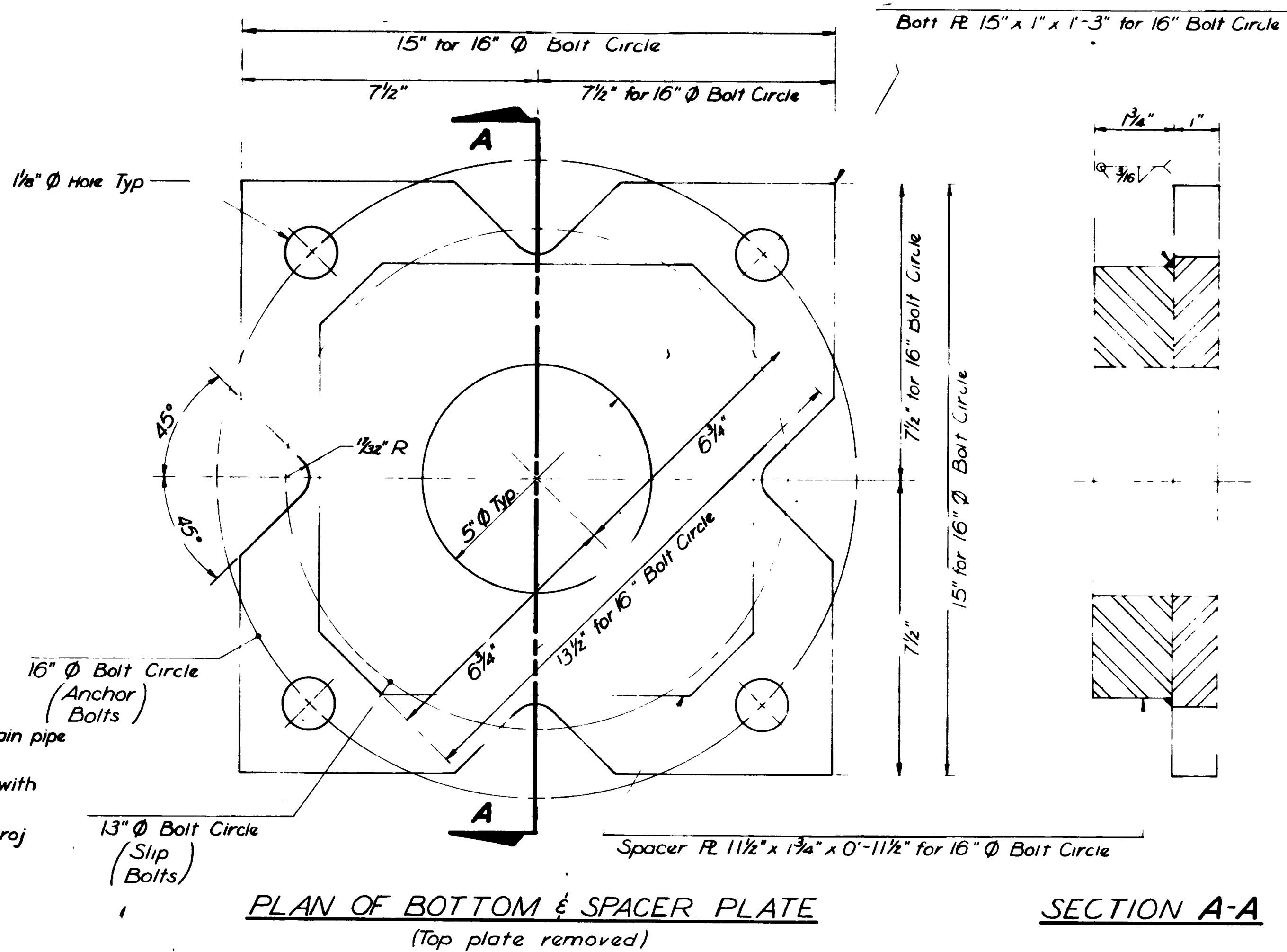
PLAN OF TOP PLATE

NOTES:

- 1- Place bottom plate with spacer plate on leveling nuts on anchor bolts and fasten in place.
- 2- Top plate shall be furnished by light pole fabricator as light pole base plate with dimensions as shown in plan view.
- 3- Erect light pole and secure with 1" ϕ high strength bolts. Bolts shall be installed in the slots so that the bolt shanks are in contact with the plates.
- 4- All structural steel shall conform to ASTM A36. All slip bolts and nuts shall conform to ASTM A325.
- 5- All steel plate assemblies shall be hot-dip galvanized after fabrication in accordance with ASTM A123.
- 6- All nuts, bolts and washers shall be hot-dip galvanized in accordance with ASTM A153.
- 7- All contact areas of plates shall be free of galvanizing beads or runs.
- 8- Break away base shall be utilized on all steel light poles except on structures.
- 9- Slip bolts shall be torqued to 150 foot-pounds or 1800 inch-pounds.
- 10- Grouting shall be done after light pole has been located in final position.

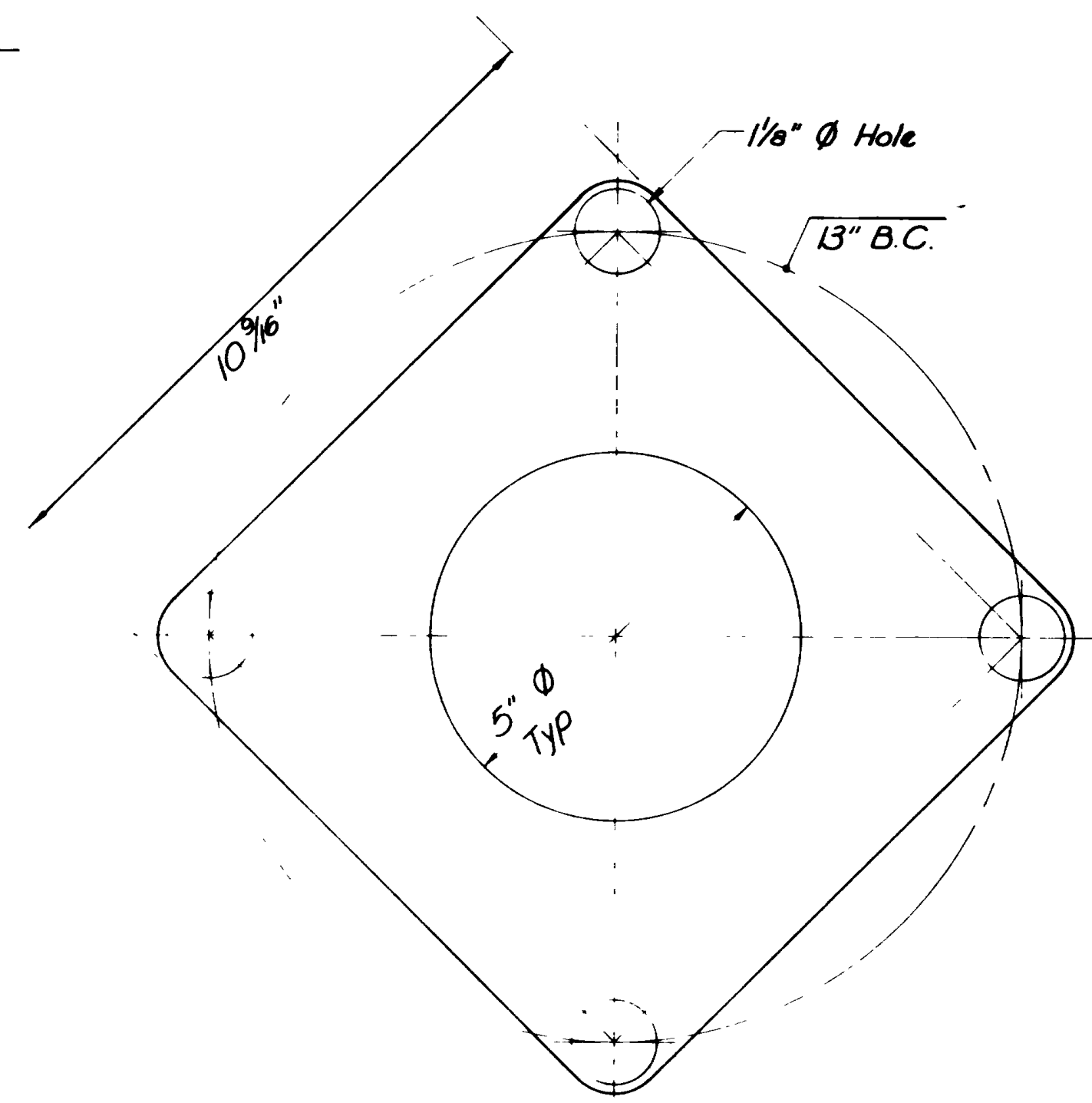


LIGHT POLE BASE



PLAN OF BOTTOM & SPACER PLATE
(Top plate removed)

SECTION A-A



SLIP BOLT GASKET
22 Ga galvanized sheet metal

UTAH STATE DEPARTMENT OF HIGHWAYS
SALT LAKE CITY, UTAH
TRAFFIC DIVISION

OGDEN INTERCHANGES
INTERSTATE LIGHTING
BREAK AWAY BASE

DESIGNED *A.V.W.* DATE 5-8-70 PROJ NO 115-8(36)338
DRAWN *D.L.J.* DATE 4-22-70 STA
CHECKED *K.F.H.* DATE 6-18-70 COUNTY *Weber*

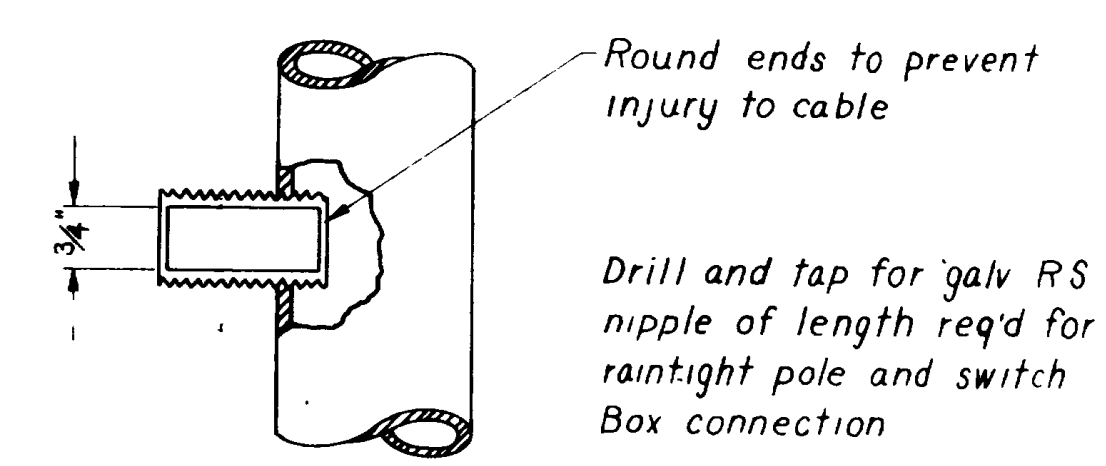
APPROVAL RECOMM *6-30-70* DATE *Q. J. Babin*

APPROVED _____ DATE _____ CHIEF TRAFFIC ENGINEER

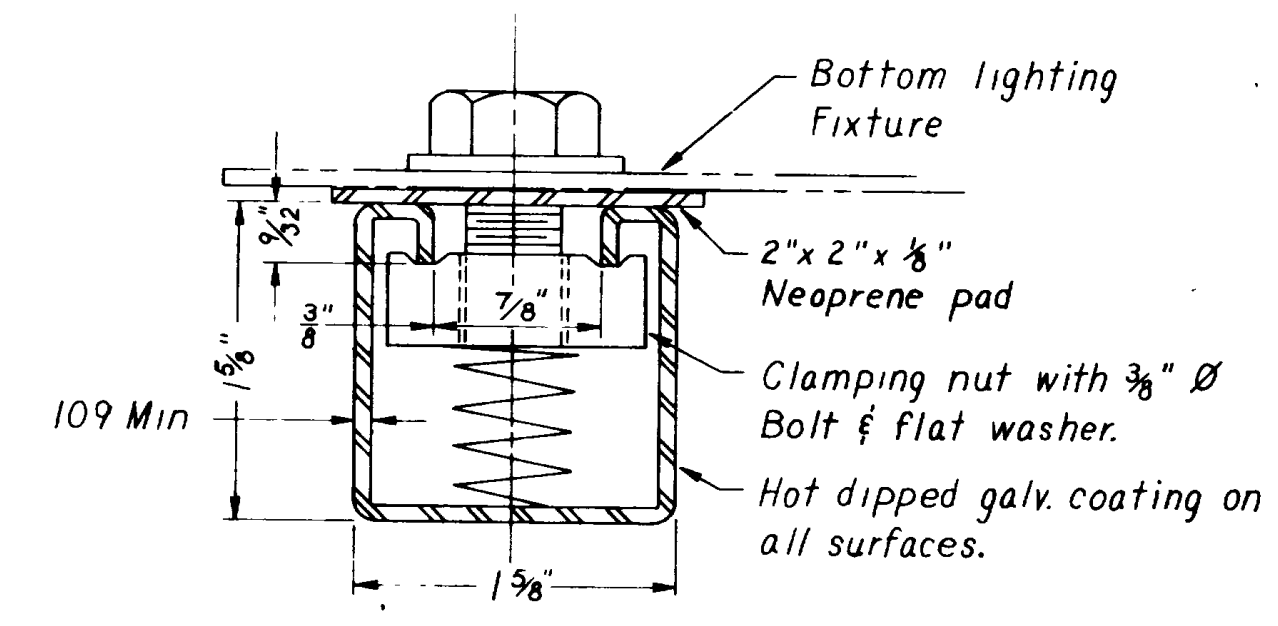
NO	BY	DATE	REMARKS
REVISIONS			

DWG. NO. **L-24** SHEET **9** OF **22**

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
UTAH	UTAH				

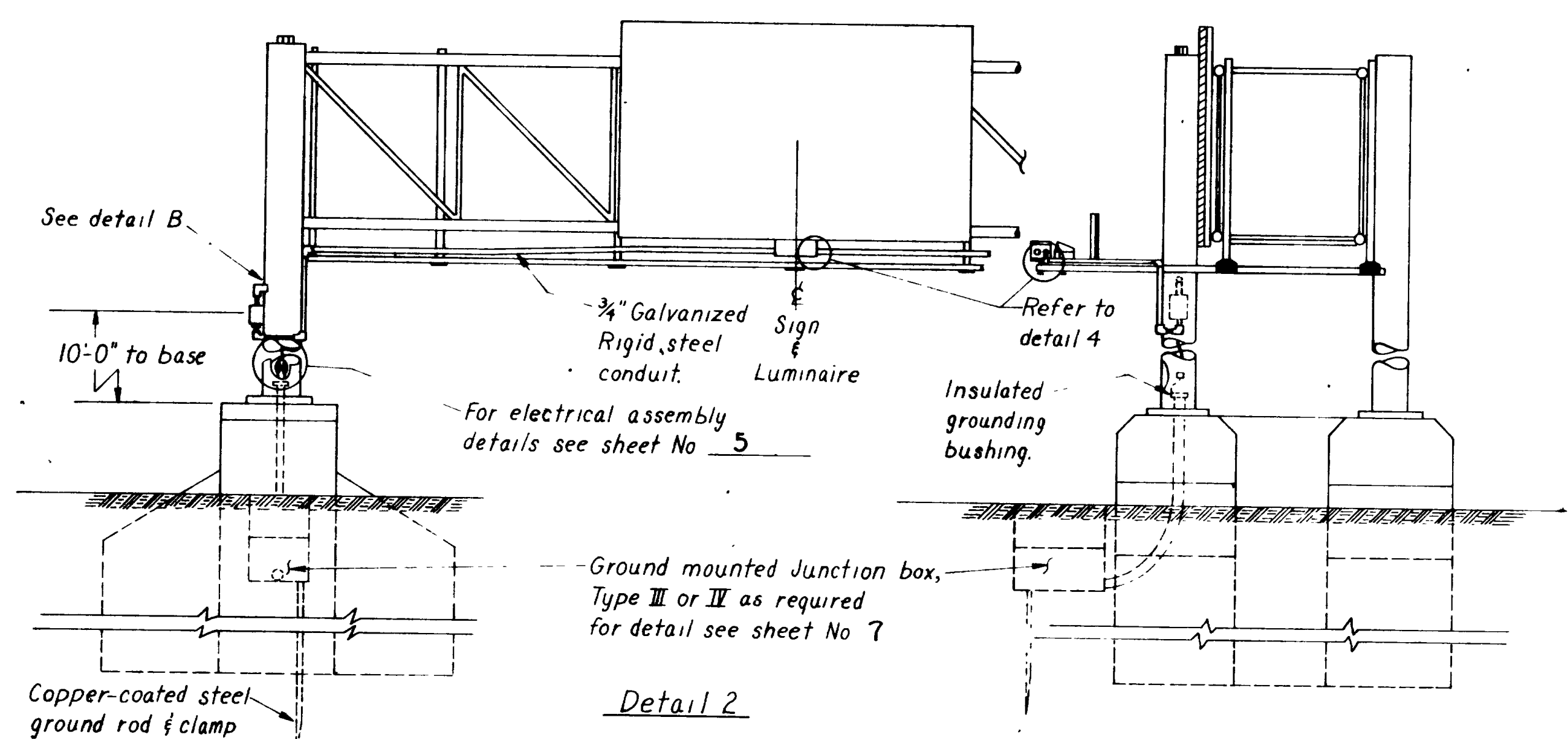


Detail B

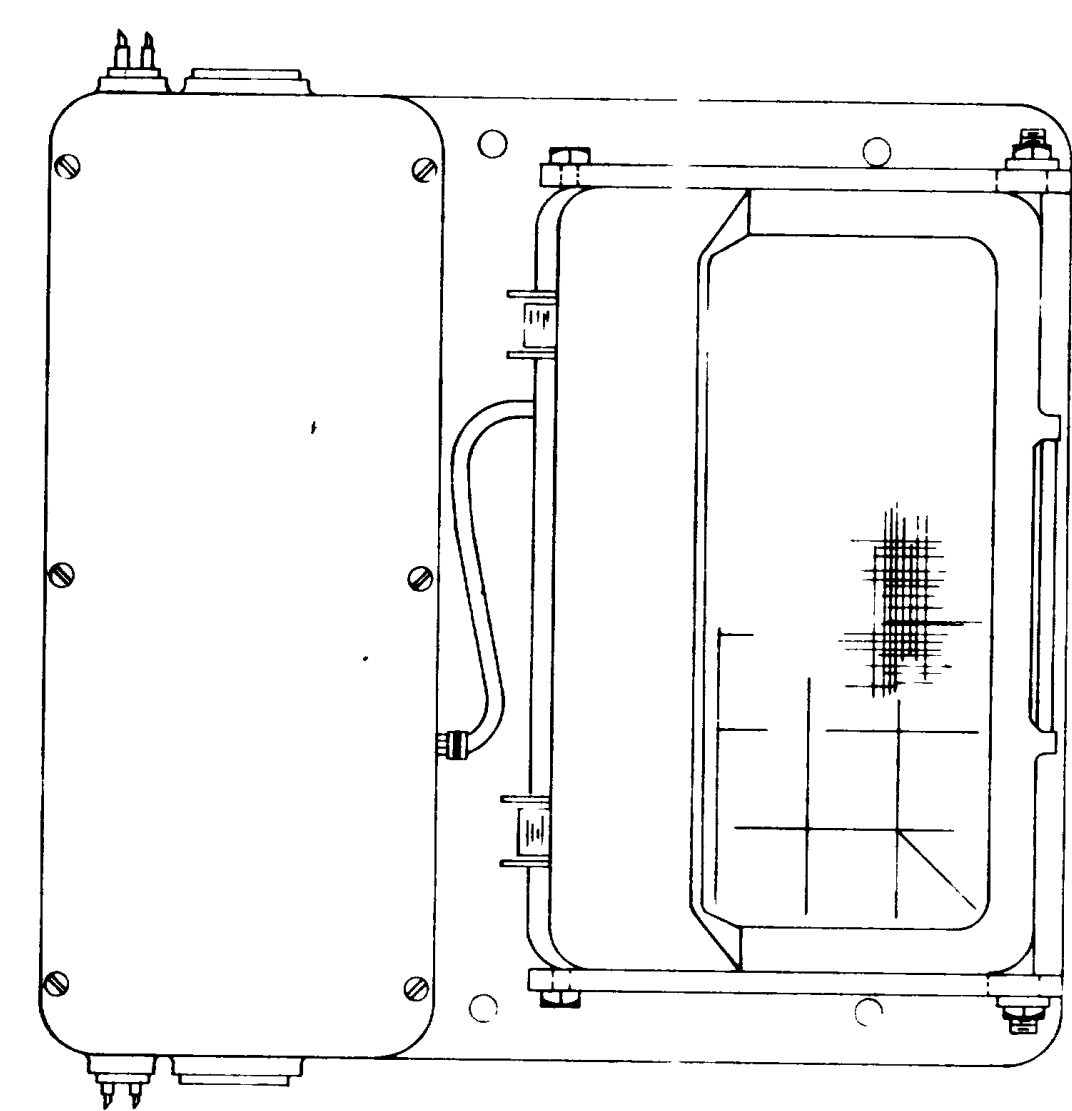


Detail 4

Typical Slotted Channel Conn. to Lighting Fixtures



Detail 2
Sign Bridge Installation For Underground Supply To Sign Lighting Circuits



Detail 3

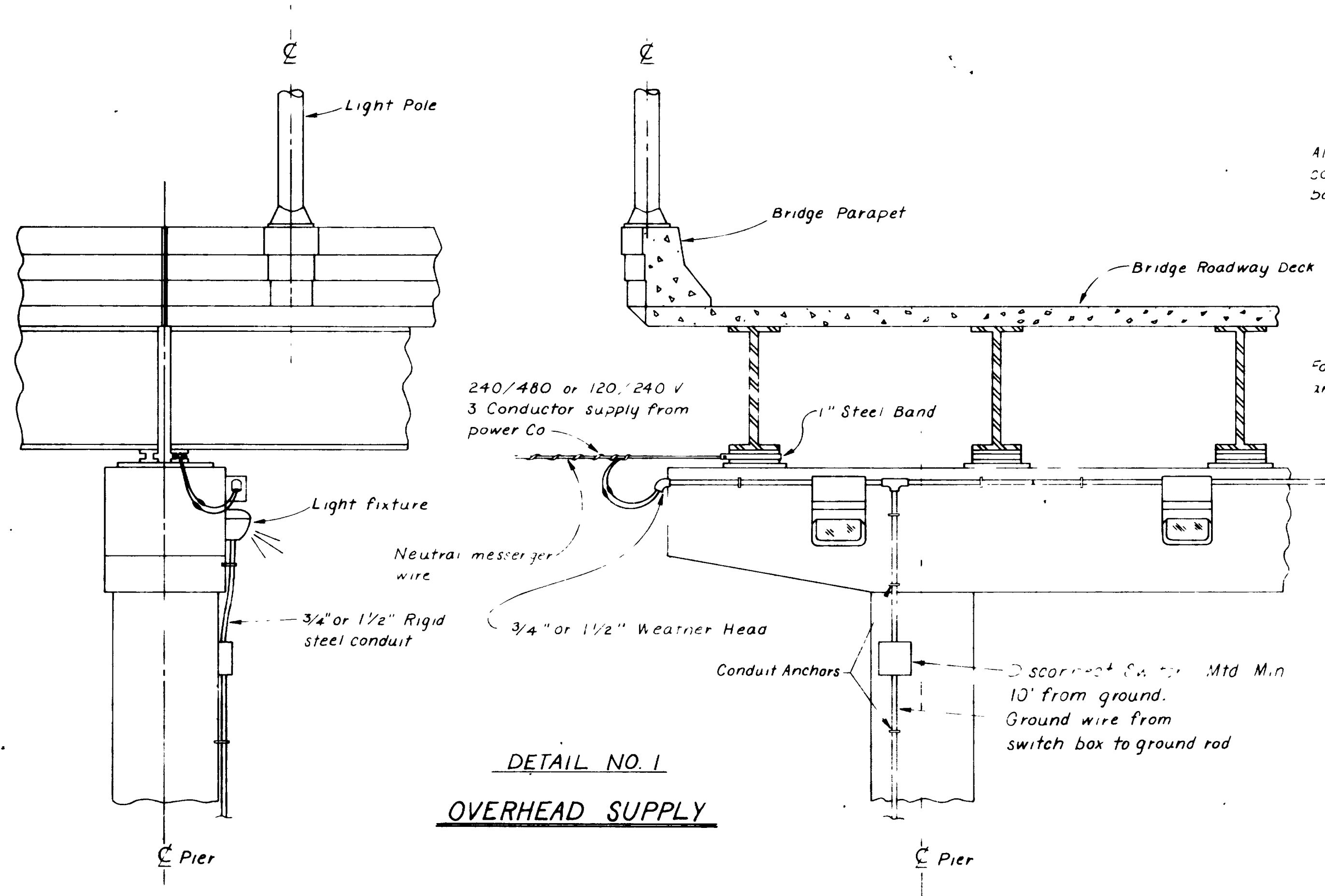
S.S.L. Sign Lighting Fixtures

Notes:

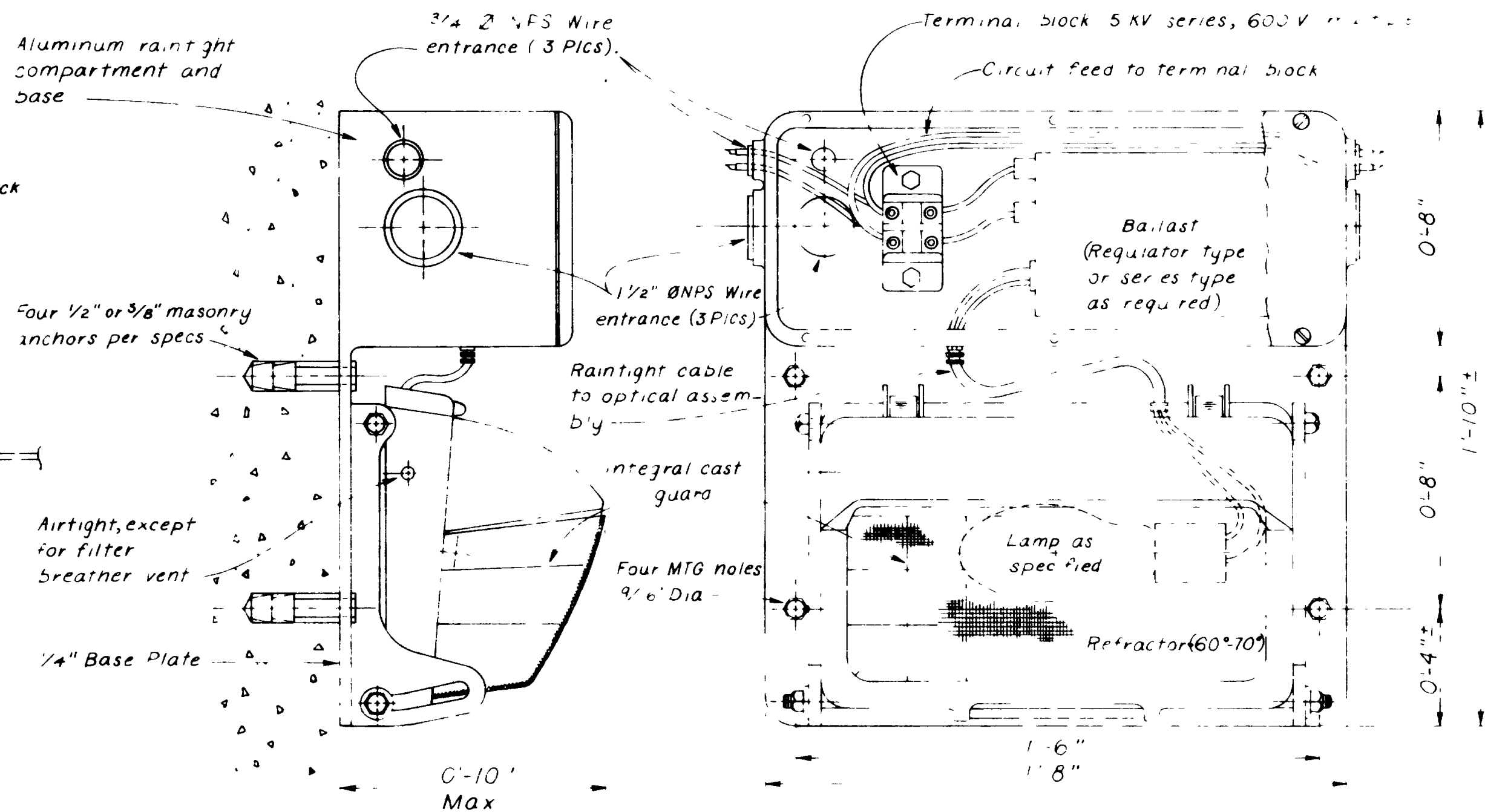
1. Conduit runs from pole to fixture should be supported by Clipping to maintenance walk support members as required.
2. Unless otherwise noted, cable from disconnect switch to sign lighting fixtures shall be No 10 AWG. copper twin conductor type RHH, 600 V. for all multiple circuits. Cable from lighting circuit supplying power to the disconnect switch shall be of the same size and type as basic supply circuit.
3. Each sign bridge shall be grounded to ground rod in adjacent box.
4. S.S.L. Indicates High Pressure Sodium Sign Lighting.

UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DIVISION					
OGDEN INTERCHANGES					
INTERSTATE LIGHTING SIGN BRIDGE LIGHTING DETAILS					
DESIGNED	R.V.V.	DATE	5-8-70	PROJ. NO.	I-15-B(36)33B
DRAWN	P.L.S.	DATE	4-22-70	STA.	
CHECKED	K.F.H.	DATE	6-18-70	COUNTY	Weber
APPROVAL	DATE 6-30-70 <i>R. J. Sadler</i>				
RECOMM.					
APPROVED	DATE		CHIEF TRAFFIC ENGINEER		
DWG. NO.	L-24		SHEET 10 OF 22		

NO.	BY	DATE	REMARKS

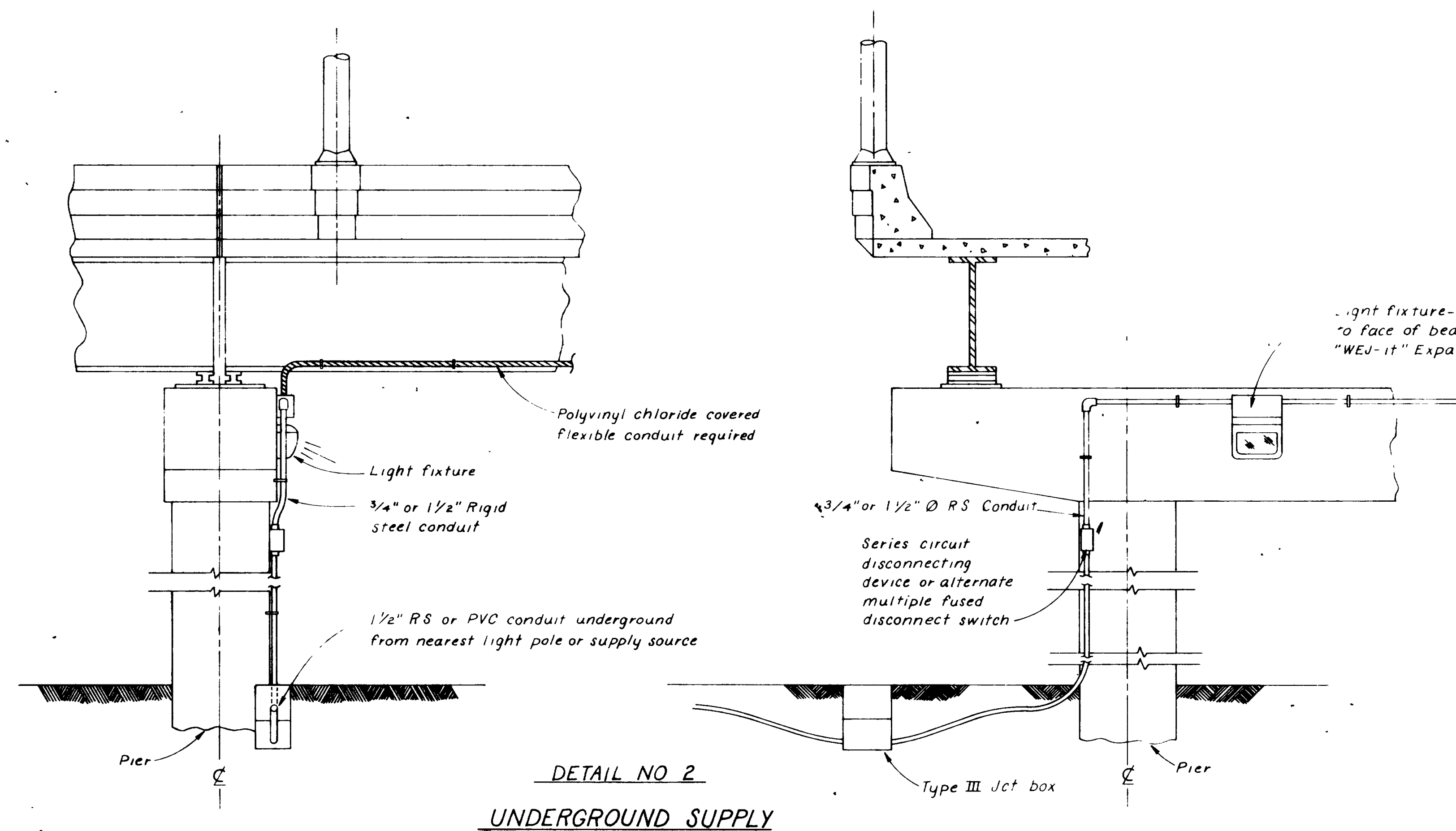


DETAIL NO. 1
OVERHEAD SUPPLY

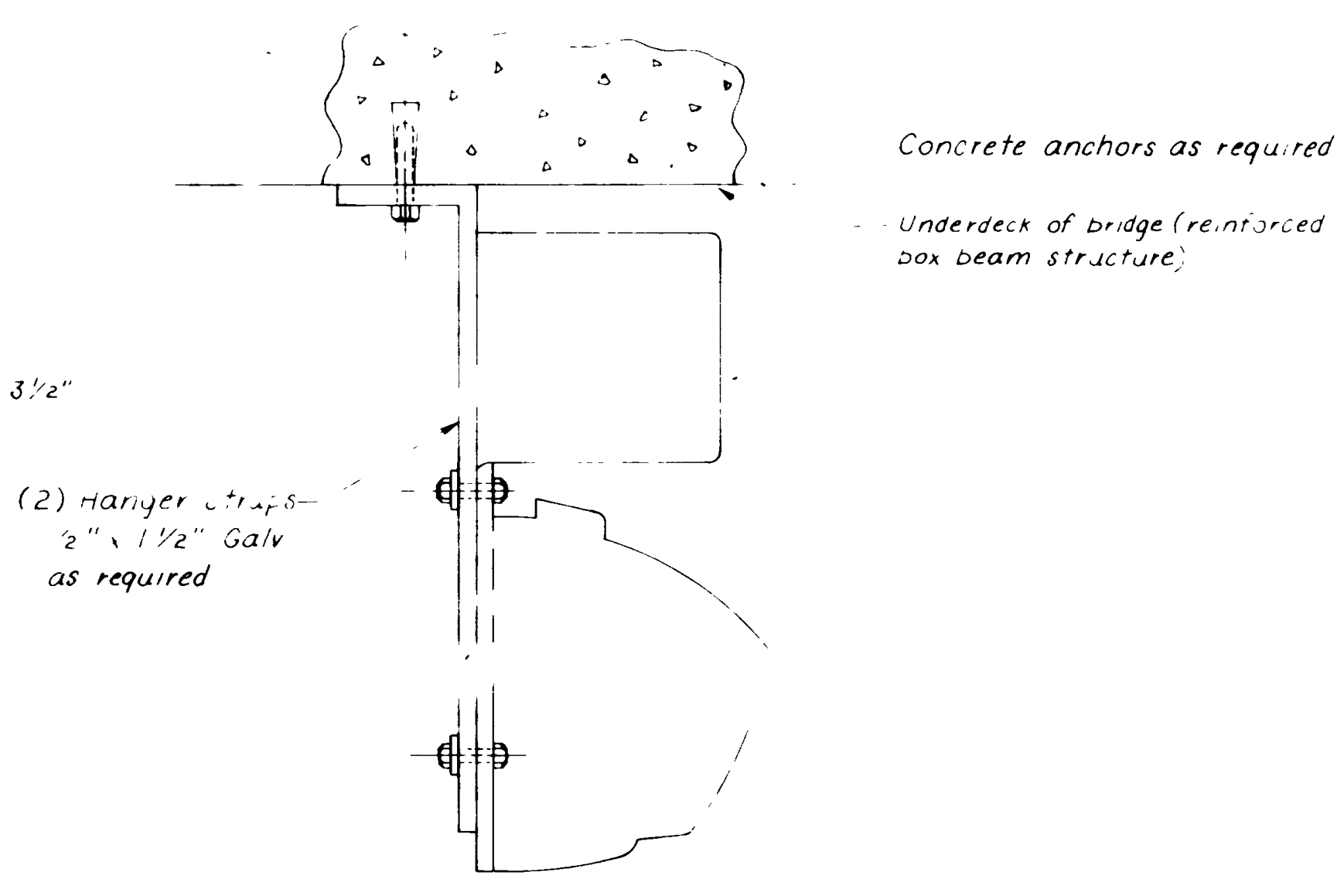


DETAIL NO. 3
UNDERSTRUCTURE LIGHTING FIXTURE

- Notes**
- 1-Mount fixture to give maximum mounting height. Alternate conduit could rest on top of beam as shown in detail No. 2.
 - 2-Anchor Galv RS conduit to concrete with 1" steel strap and masonry anchors at 4'-0" maximum spacing.
 - 3-Fuse disconnect switch boxes shall have common key lock.
 - 4 Photo electric control with strap mounting receptacle base for mounting.



DETAIL NO. 2
UNDERGROUND SUPPLY

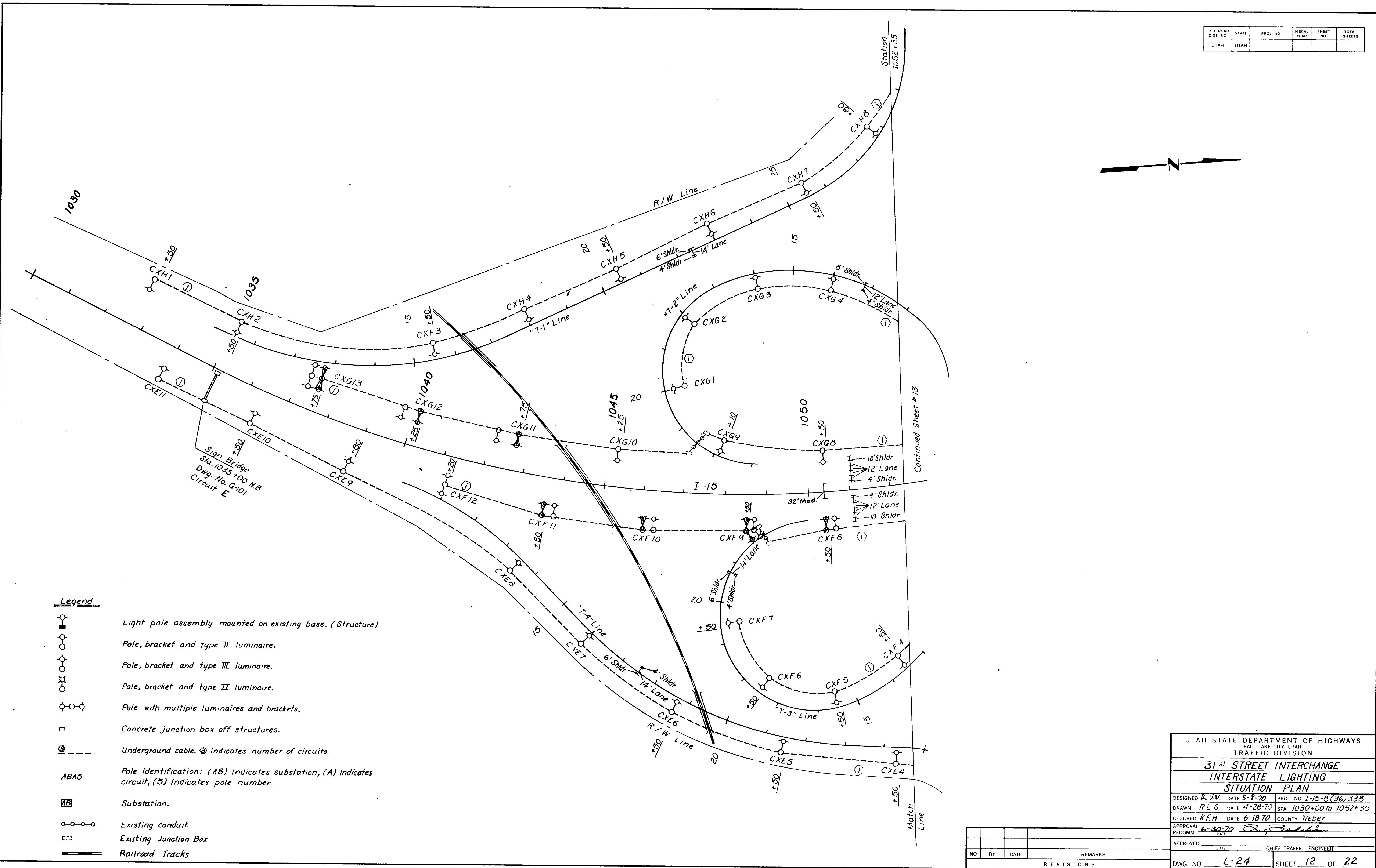


DETAIL NO. 4
PENDANT MOUNTING LUMINAIRE

UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DIVISION	
OGDEN INTERCHANGES	
UNDERSTRUCTURE LIGHTING DETAILS	
DESIGNED R. W. W. DATE 5-1-70	PROJ NO I-15-B(36)338
DRAWN R. Sloan DATE 1-22-70	STA
CHECKED K.F.H. DATE 6-18-70	COUNTY Weber
APPROVAL RECOMM 6-30-70	<i>R. S. Sullivan</i>
APPROVED _____	CHIEF TRAFFIC ENGINEER
NO	BY
REMARKS	
DIVISIONS	
DWG NO L-24	SHEET 11 OF 22

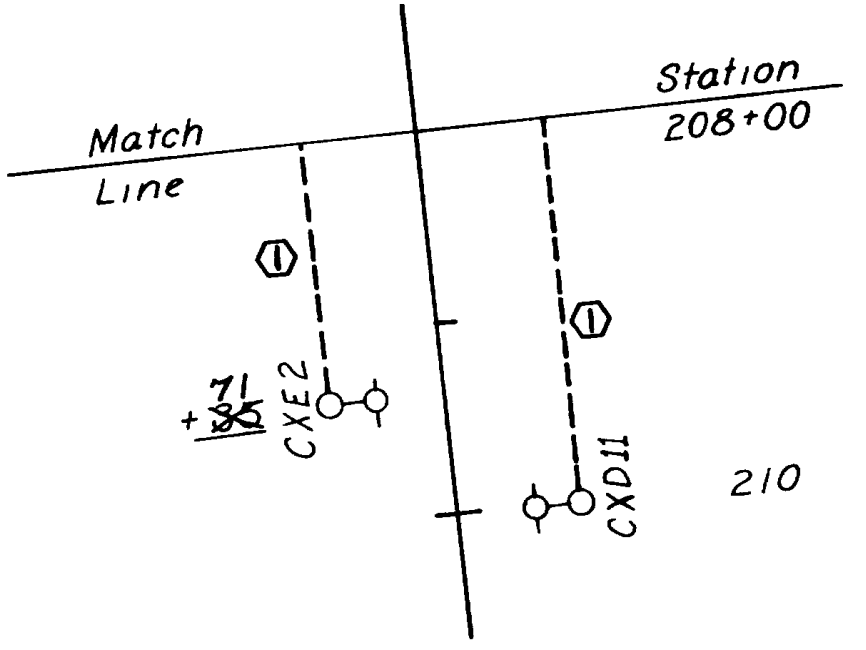
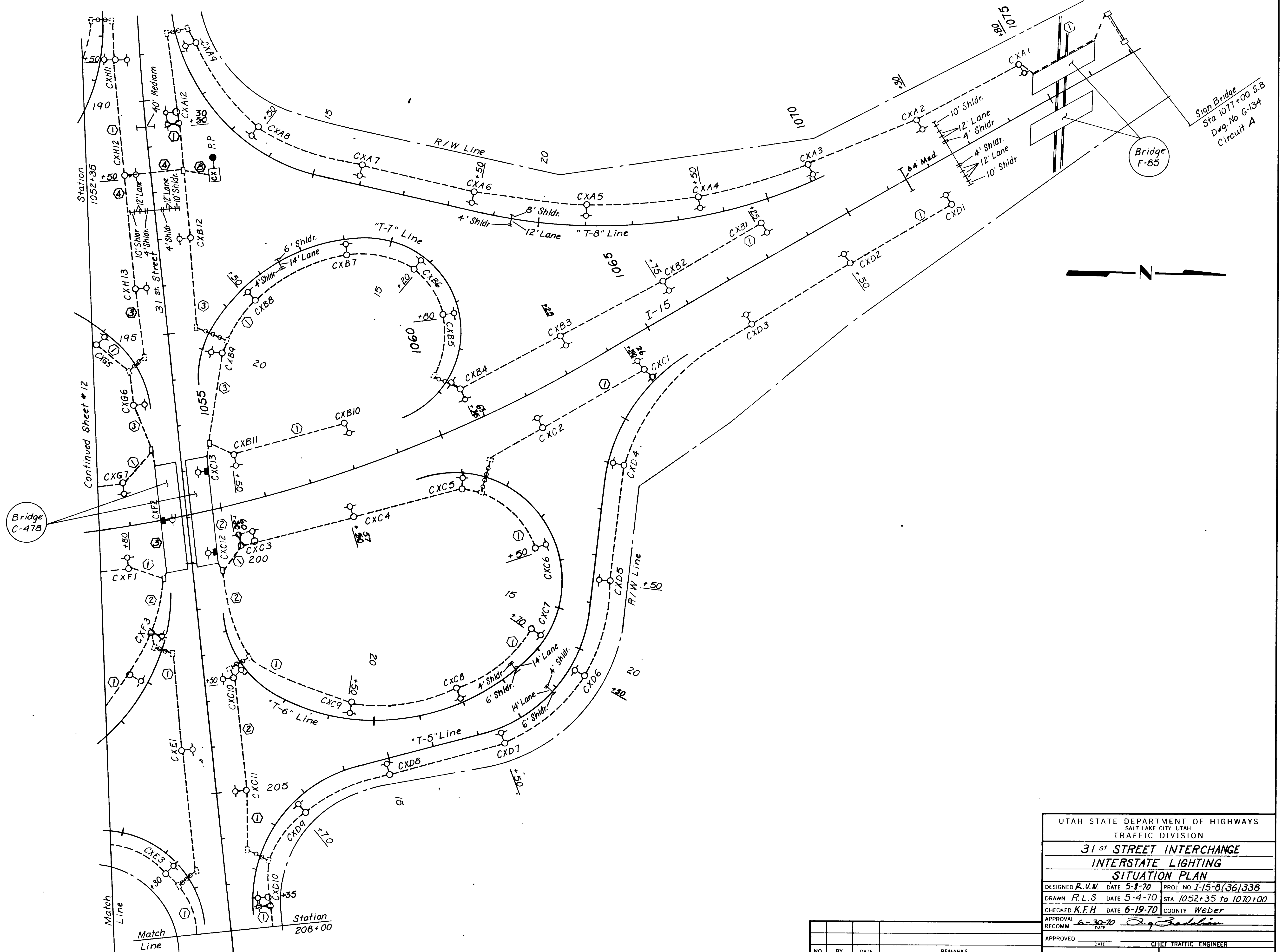
NO	BY	REMARKS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
UTAH	UTAH				



- Legend**
- Light pole assembly mounted on existing base. (Structure)
 - Pole, bracket and type II luminaire.
 - Pole, bracket and type III luminaire.
 - Pole, bracket and type II luminaire.
 - Pole with multiple luminaires and brackets.
 - Concrete junction box off structures.
 - Underground cable. (5) Indicates number of circuits.
 - ABAS** Pole Identification: (AB) Indicates substation, (A) Indicates circuit, (5) Indicates pole number.
 - Substation.
 - Existing conduit.
 - Existing Junction Box
 - Railroad Tracks

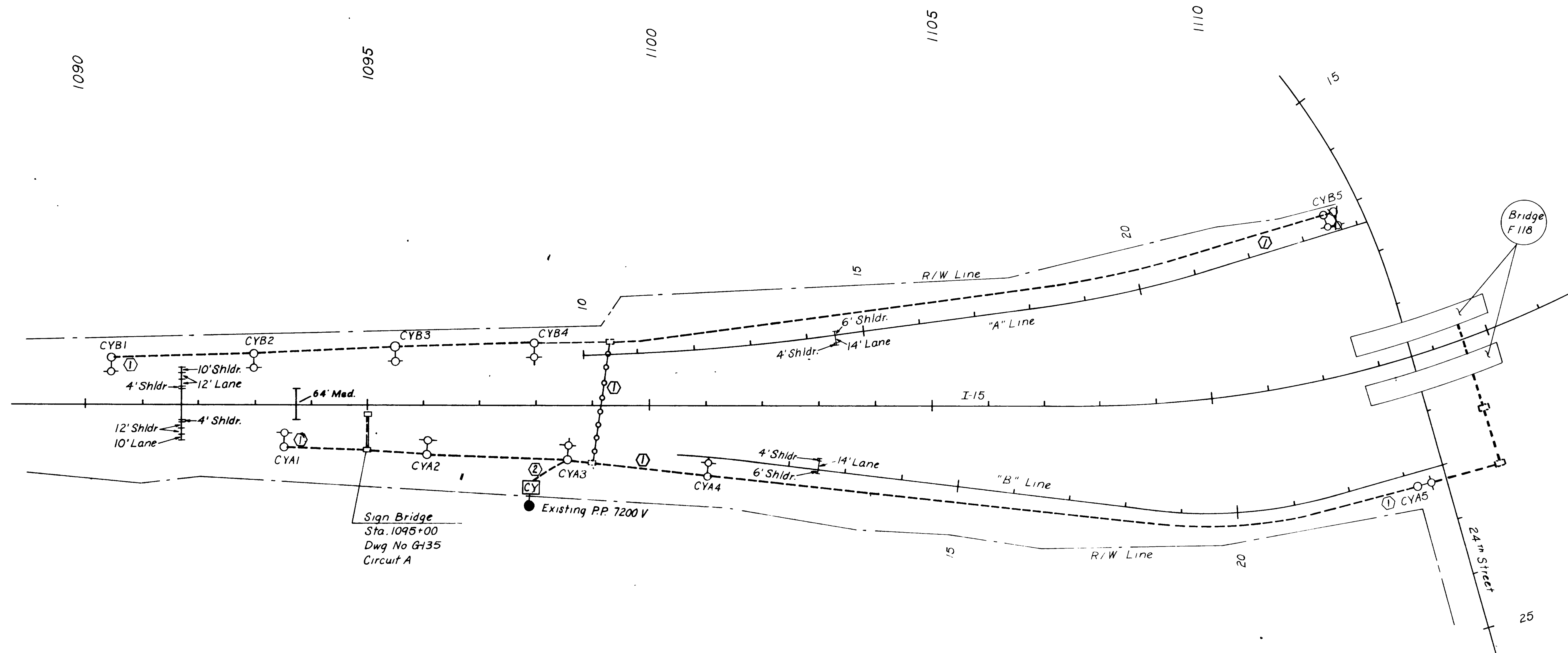
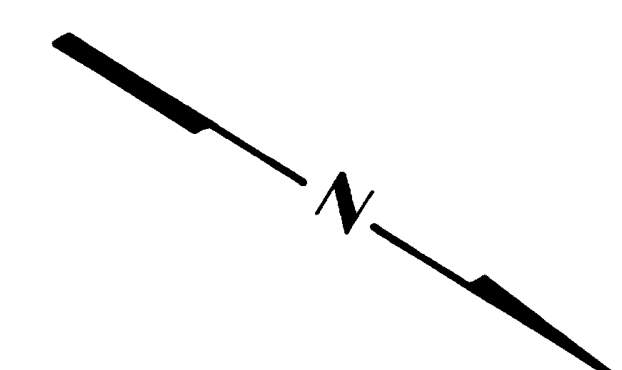
UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DIVISION			
31st STREET INTERCHANGE INTERSTATE LIGHTING SITUATION PLAN			
DESIGNED <i>R.W.</i> DATE 5-8-70	PROJ NO I-15-8(36)338		
DRAWN <i>R.L.S.</i> DATE 4-28-70	STA 1030+00 to 1052+35		
CHECKED <i>K.F.H.</i> DATE 6-18-70	COUNTY Weber		
APPROVAL RECOMM <i>6-30-70</i> <i>R. J. Ballin</i>			
APPROVED _____	CHIEF TRAFFIC ENGINEER		
NO	BY	DATE	REMARKS
REVISIONS			
DWG NO L-24		SHEET 12 OF 22	



UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DIVISION	
31st STREET INTERCHANGE INTERSTATE LIGHTING SITUATION PLAN	
DESIGNED R.V.W. DATE 5-8-70	PROJ. NO. I-15-8(36)338
DRAWN R.L.S. DATE 5-4-70	STA. 1052+35 TO 1070+00
CHECKED K.F.H. DATE 6-19-70	COUNTY Weber
APPROVAL RECOMM. DATE 6-30-70	<i>Rog. B. Sullivan</i>
APPROVED _____	DATE _____
APPROVED _____	CHIEF TRAFFIC ENGINEER
NO. BY DATE	REMARKS
REVISIONS	
DWG. NO. L-24	SHEET 13 OF 22

Sign Bridge
Sta. 1077+00 S.B.
Dwg. No. G-134
Circuit A

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
UTAH	UTAH				

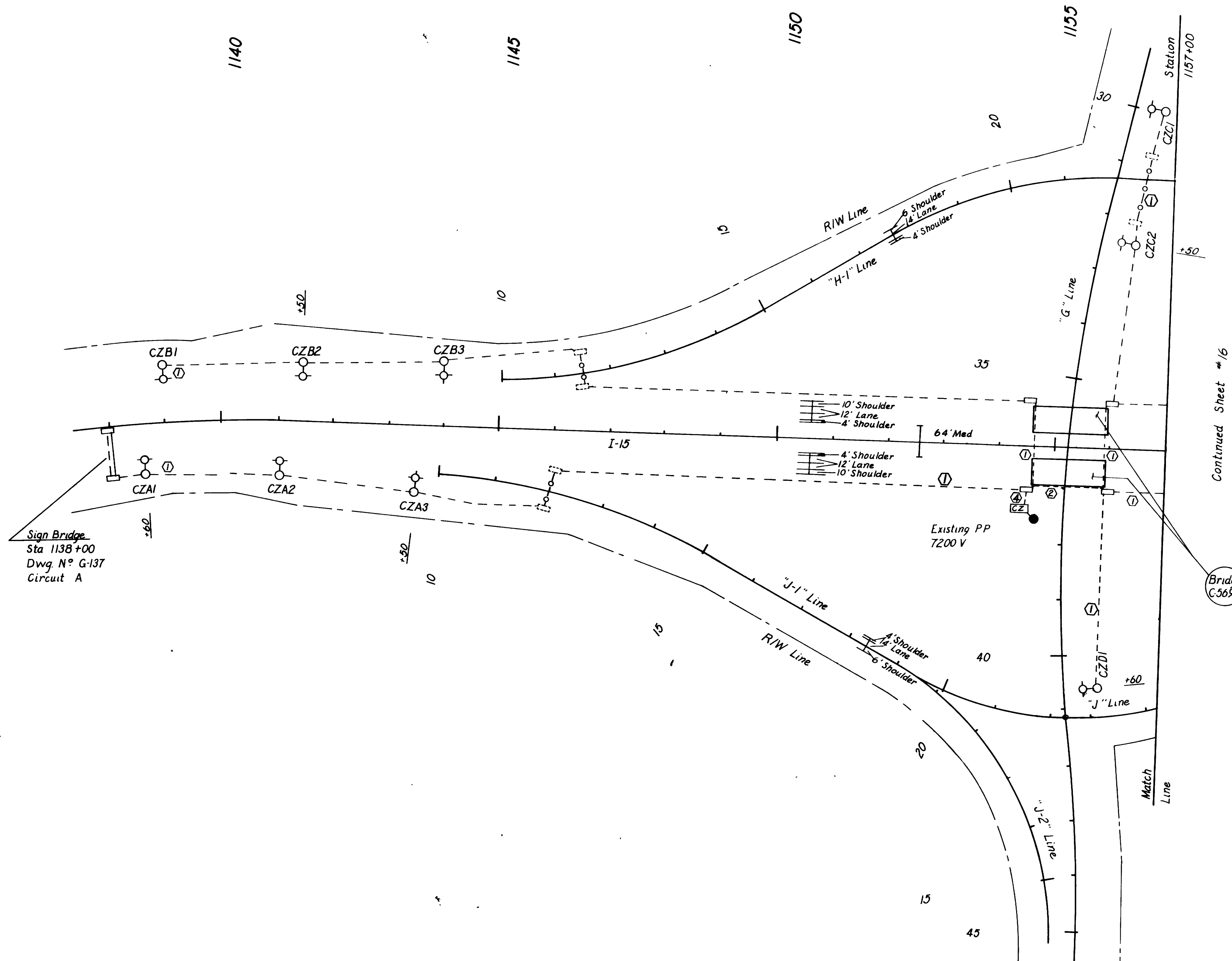


Sign Bridge
Sta. 1095+00
Dwg No G-135
Circuit A

UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DIVISION	
24 th STREET INTERCHANGE INTERSTATE LIGHTING SITUATION PLAN	
DESIGNED R.V.W. DATE 5-8-70	PROJ. NO. I-15-8(36)338
DRAWN R.L.S. DATE 4-15-70	STA. 1090+00 TO 1116+00
CHECKED K.F.H. DATE 6-19-70	COUNTY Weber
APPROVAL RECOMM. 6-30-70 <i>R. J. Zeller</i>	
APPROVED _____	CHIEF TRAFFIC ENGINEER
DWG NO. L-24	SHEET 14 OF 22

NO.	BY	DATE	REMARKS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
UTAH	UTAH				

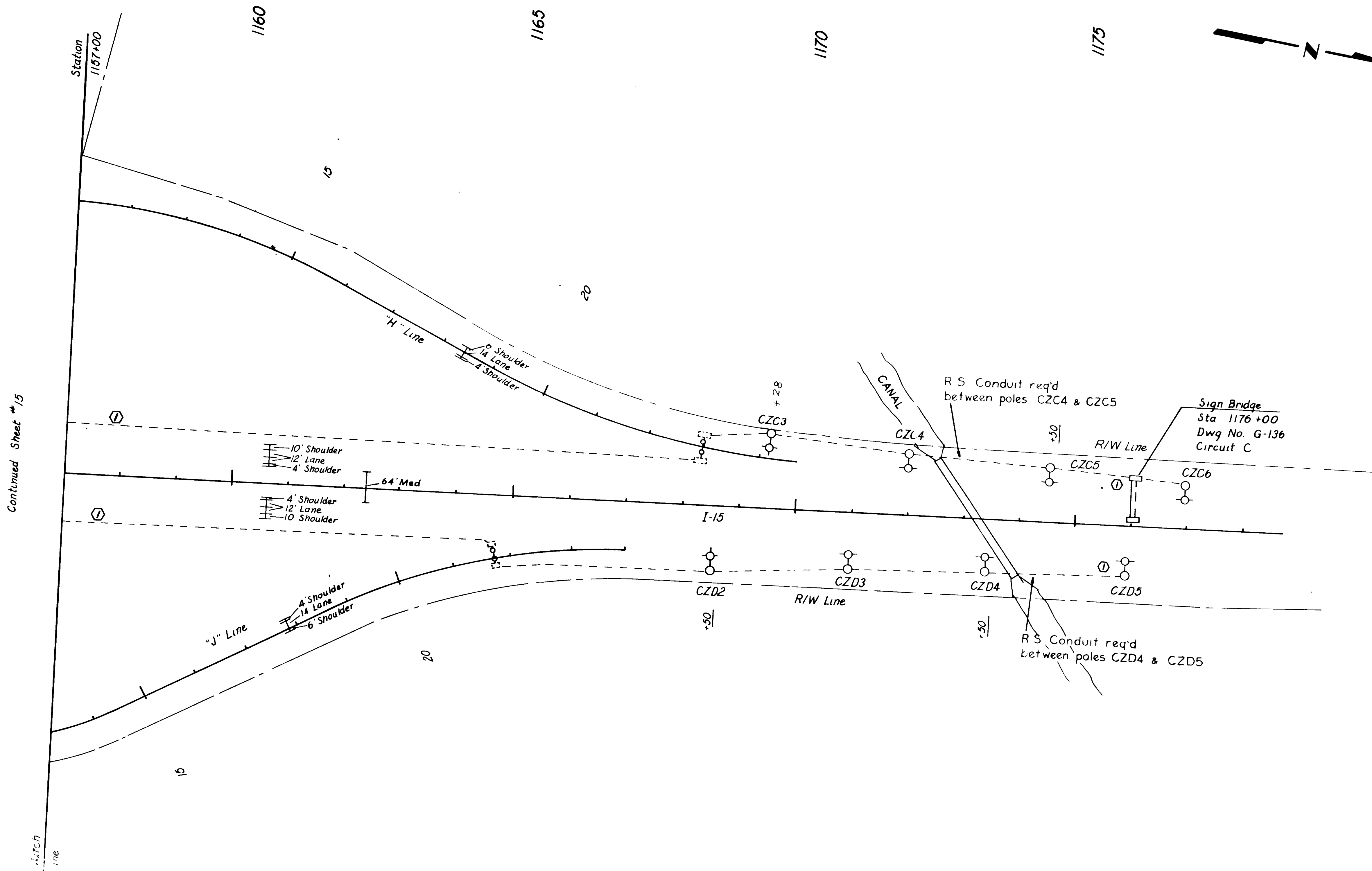


Sign Bridge
Sta 1138+00
Dwg. N° G-137
Circuit A

Continued Sheet # 16

UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DIVISION	
WILSON LANE INTERCHANGE INTERSTATE LIGHTING SITUATION PLAN	
DESIGNED <i>R.V.W.</i> DATE 5-8-70	PROJ. NO. I-15-B(36)33B
DRAWN <i>K.F.H.</i> DATE 4-12-70	STA 1138+00 to 1157+00
CHECKED <i>K.F.H.</i> DATE 6-19-70	COUNTY Weber
APPROVAL RECOMM <i>6-30-70</i> <i>DyBaldin</i>	
APPROVED _____ DATE _____	CHIEF TRAFFIC ENGINEER
NO. BY DATE	REMARKS
REVISIONS	
DWG NO. L-24	SHEET 15 OF 22

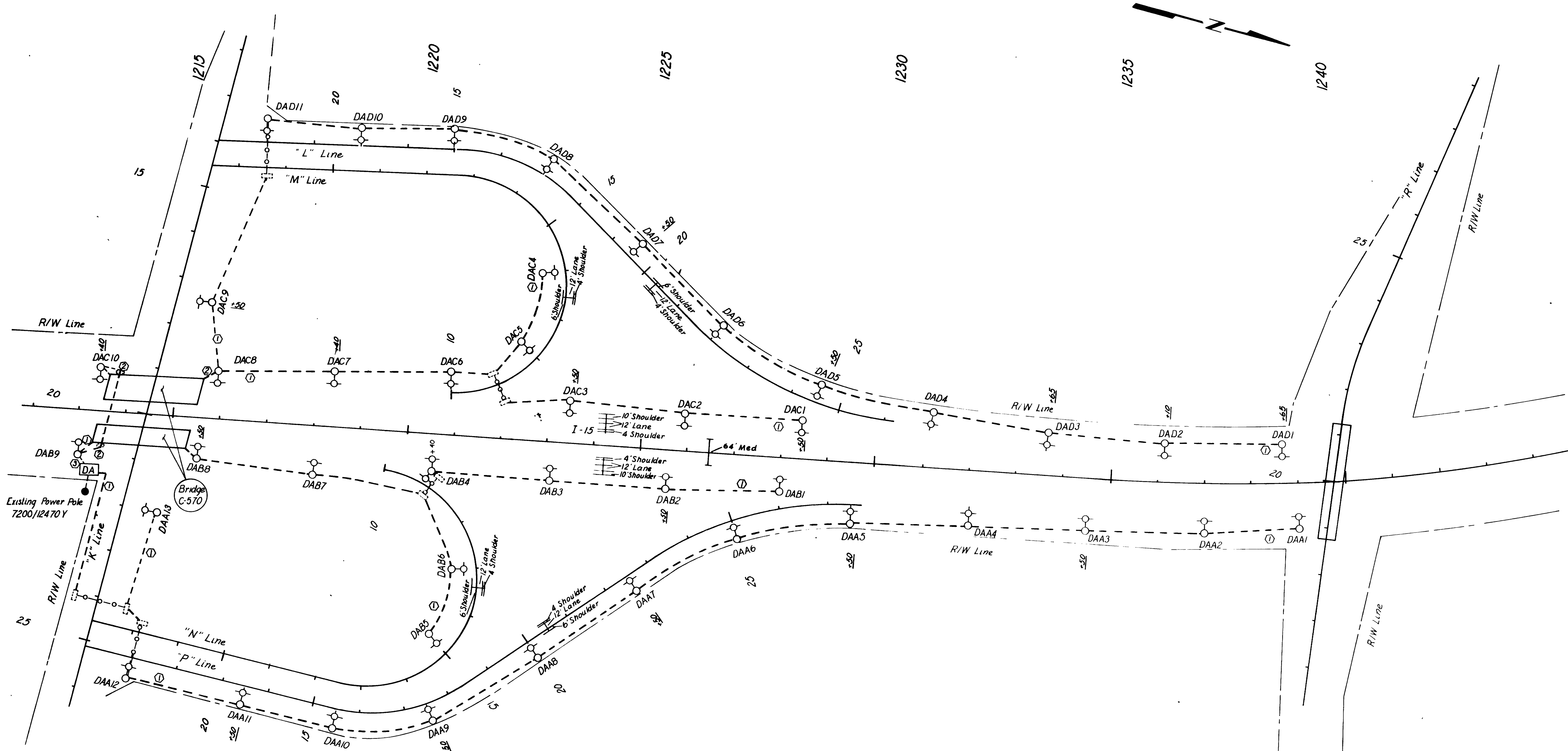
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
UTAH	UTAH				



Continued Sheet # 15

SITUATION PLAN			
DATE 5-8-70	PROJ. NO. I-15-B(36)33B		
DATE 4-12-70	STA. 1157+00 to 1175+00		
DRAWN BY [Signature]			
CHECKED BY [Signature]			
APPROVED BY [Signature]			

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
UTAH	UTAH				



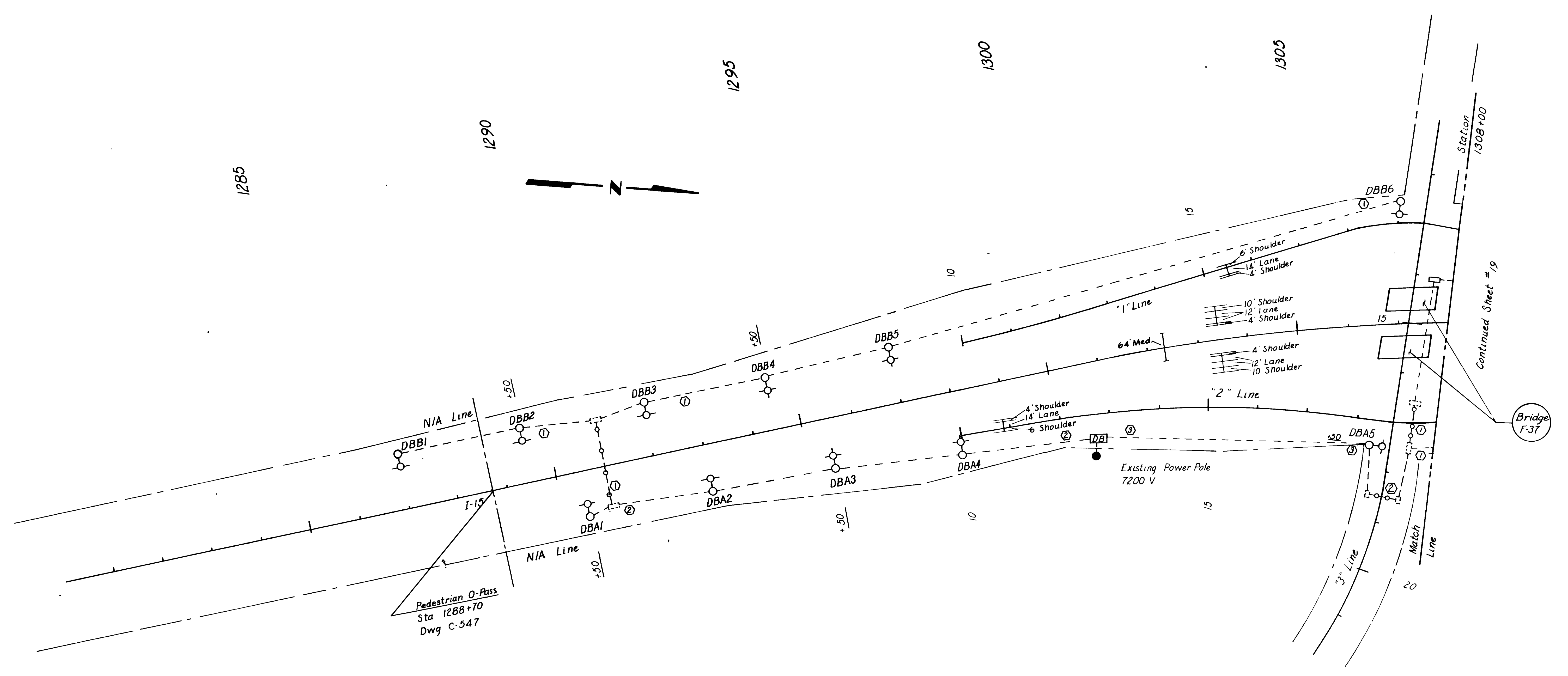
Existing Power Pole
7200/12470 Y

Bridge
C-570

UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DIVISION	
12TH STREET INTERCHANGE INTERSTATE LIGHTING SITUATION PLAN	
DESIGNED: <i>KFH</i> DATE: 5-8-70	PROJ. NO. I-15-B(36)338
DRAWN: <i>KFH</i> DATE: 4-2-70	STA. 1212+00 to 1244+00
CHECKED: <i>KFH</i> DATE: 6-19-70	COUNTY: Weber
APPROVAL RECOMM: <i>6-30-70</i> <i>[Signature]</i>	
APPROVED: _____ DATE: _____	CHIEF TRAFFIC ENGINEER
DWG. NO. L-24	SHEET 17 OF 22

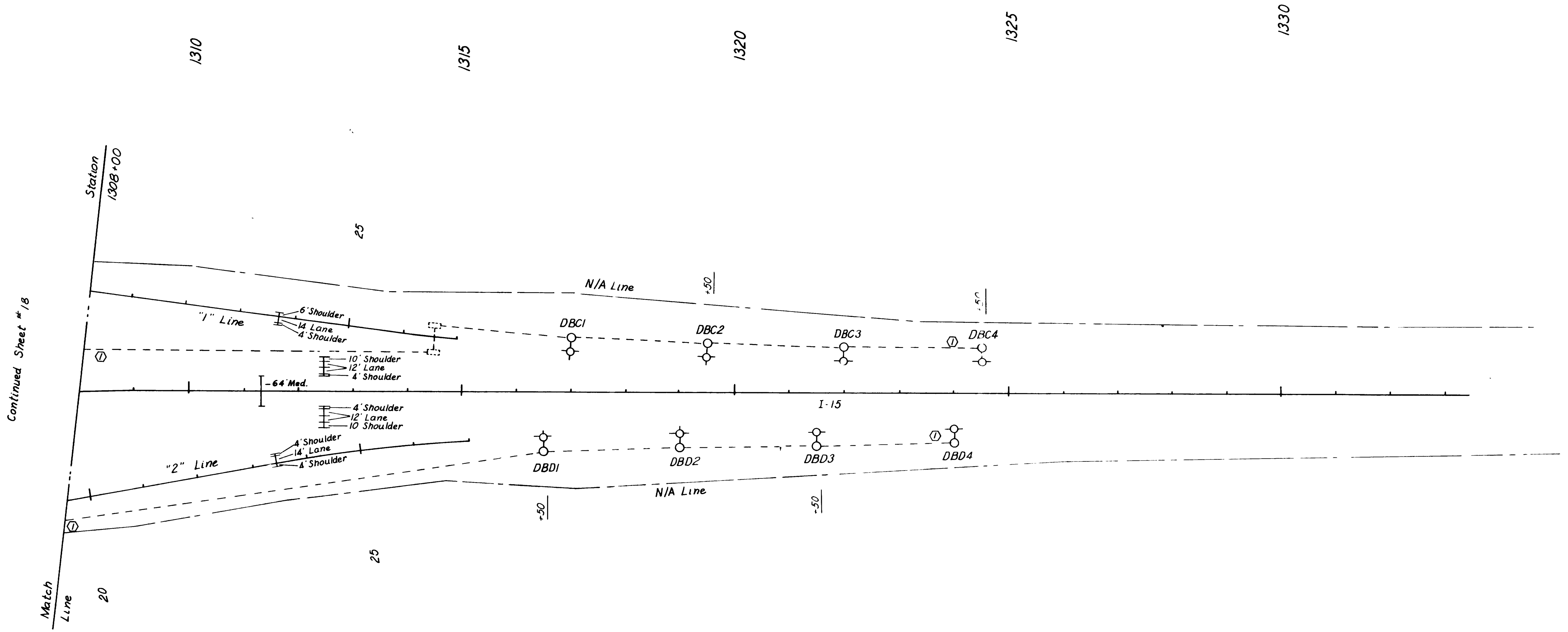
NO.	BY	DATE	REMARKS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
UTAH	UTAH				



Pedestrian O-Pass
Sta 1288+70
Dwg C-547

UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DIVISION			
SLATERVILLE INTERCHANGE			
INTERSTATE LIGHTING			
SITUATION PLAN			
DESIGNED R.V.W.	DATE 5-8-70	PROJ. NO. I-15-8(36)338	
DRAWN K.F.H.	DATE 4-2-70	STA 1281+00 To 1308+00	
CHECKED K.F.H.	DATE 6-19-70	COUNTY Weber	
APPROVAL RECOMM. DATE 6-30-70	<i>[Signature]</i>		
APPROVED DATE	CHIEF TRAFFIC ENGINEER		
NO.	DATE	REMARKS	
		REVISIONS	
DWG NO.	L-24		SHEET 18 OF 22



Continued Sheet # 1/8

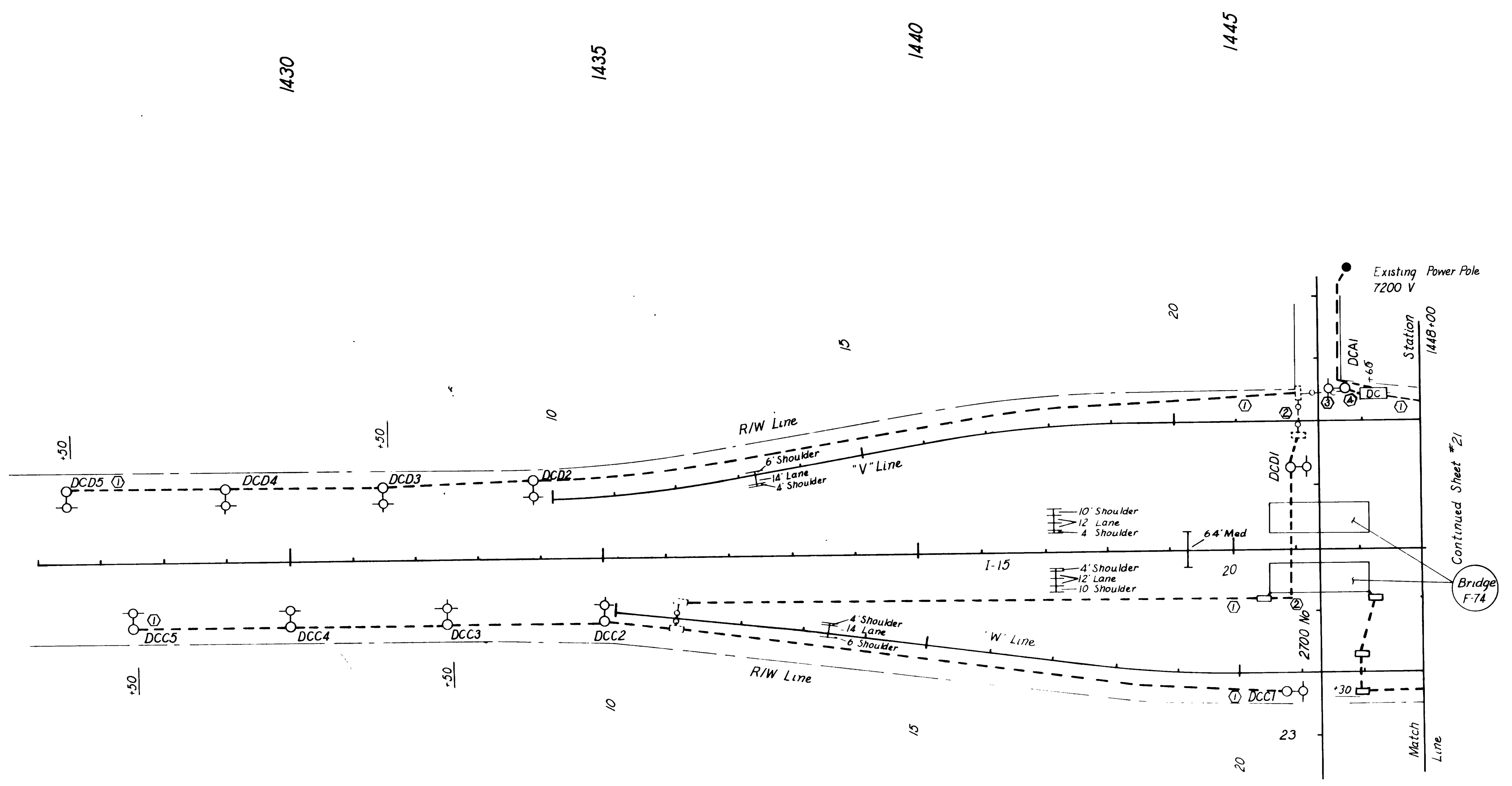
Match Line

Station
1308+00

UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DIVISION			
SLATERVILLE INTERCHANGE			
INTERSTATE LIGHTING			
SITUATION PLAN			
DESIGNED <i>R.V.W.</i>	DATE <i>5-9-70</i>	PROJ. NO. <i>I-15-B(36)338</i>	
DRAWN <i>KFH</i>	DATE <i>4-2-70</i>	STA. <i>1308+00 to 1333+00</i>	
CHECKED <i>KFH</i>	DATE <i>6-19-70</i>	COUNTY <i>Weber</i>	
APPROVAL RECOMM. <i>6-30-70</i>	DATE <i>6-30-70</i>	<i>D. J. [Signature]</i>	
APPROVED	DATE	CHIEF TRAFFIC ENGINEER	
NO.	BY	DATE	REMARKS
DWG NO. <i>L-24</i>			SHEET <i>19</i> OF <i>22</i>

NO.	BY	DATE	REMARKS
REVISIONS			

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
UTAH	UTAH				



UTAH STATE DEPARTMENT OF HIGHWAYS
 SALT LAKE CITY, UTAH
 TRAFFIC DIVISION

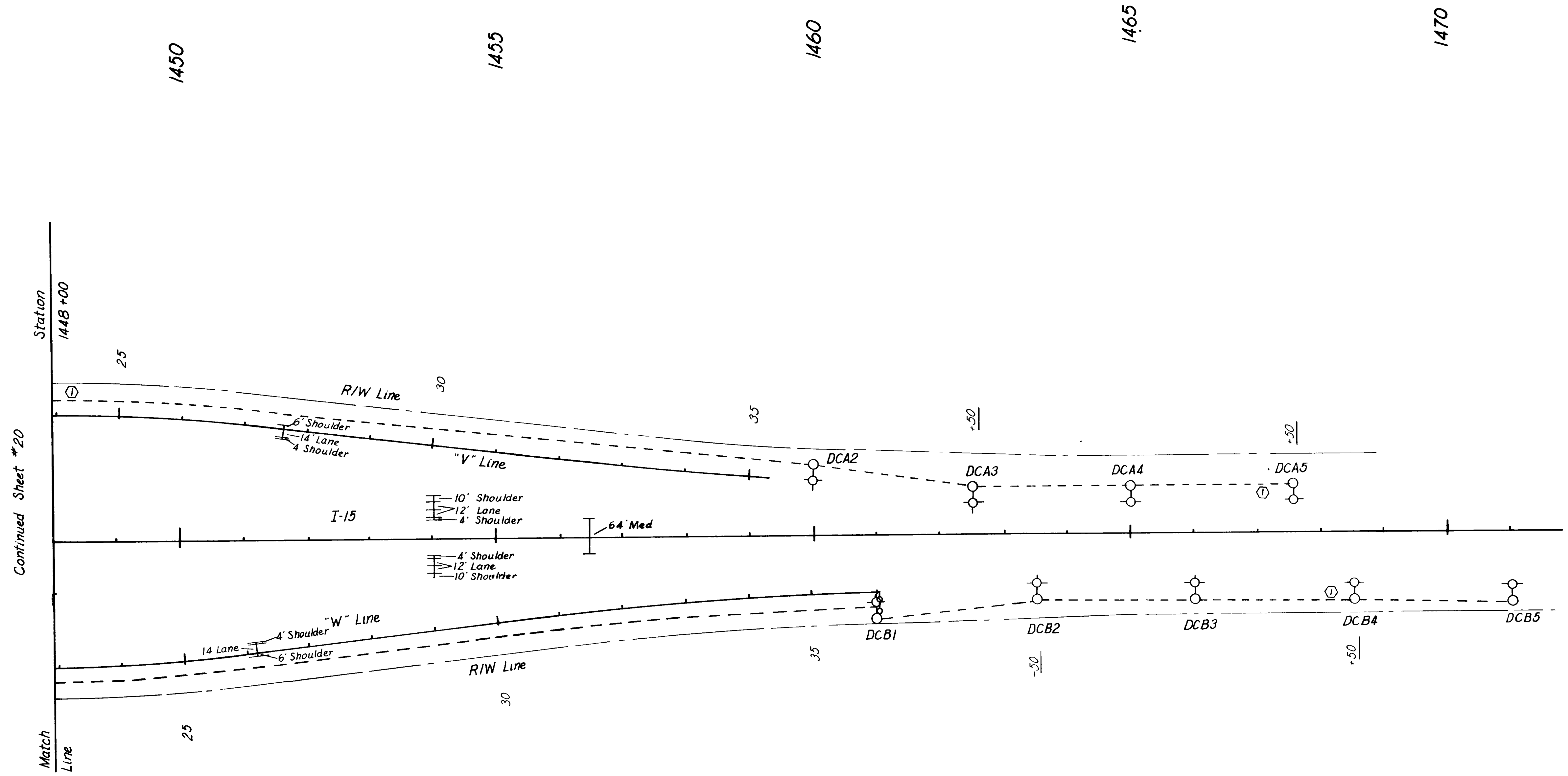
PLAIN CITY INTERCHANGE
INTERSTATE LIGHTING
SITUATION PLAN

DESIGNED *R. U. W.* DATE 5-8-70 PROJ. NO. I-15-B(36)338
 DRAWN *K. F. H.* DATE 4-22-70 STA. 1426+00 to 1448+00
 CHECKED *K. F. H.* DATE 6-19-70 COUNTY *Weber*
 APPROVAL RECOMM. DATE *6-30-70* *R. G. Badger*
 APPROVED _____ CHIEF TRAFFIC ENGINEER

DWG NO. **L-24** SHEET **20** OF **22**

NO.	BY	DATE	REMARKS
REVISIONS			

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
UTAH	UTAH				



UTAH STATE DEPARTMENT OF HIGHWAYS
SALT LAKE CITY, UTAH
TRAFFIC DIVISION

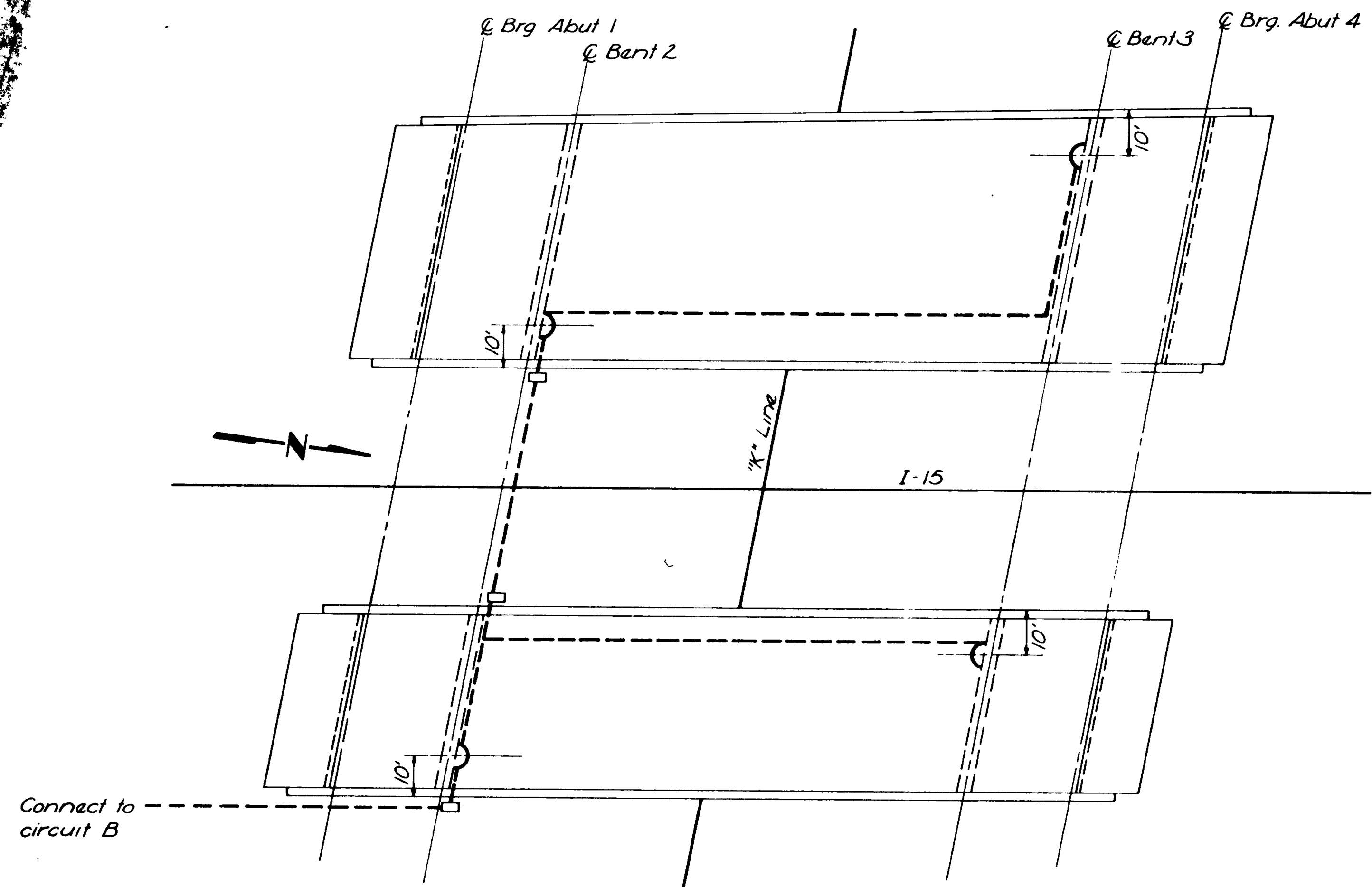
**PLAIN CITY INTERCHANGE
INTERSTATE LIGHTING
SITUATION PLAN**

DESIGNED <i>R.U.W.</i>	DATE <i>5-8-70</i>	PROJ. NO. <i>I-15-B(36)338</i>
DRAWN <i>K.F.H.</i>	DATE <i>4-22-70</i>	STA. <i>1448+00 to 1471+00</i>
CHECKED <i>K.F.H.</i>	DATE <i>6-19-70</i>	COUNTY <i>Weber</i>
APPROVAL RECOMM. <i>6-30-70</i>	<i>R. J. Badalian</i>	
APPROVED _____	CHIEF TRAFFIC ENGINEER	

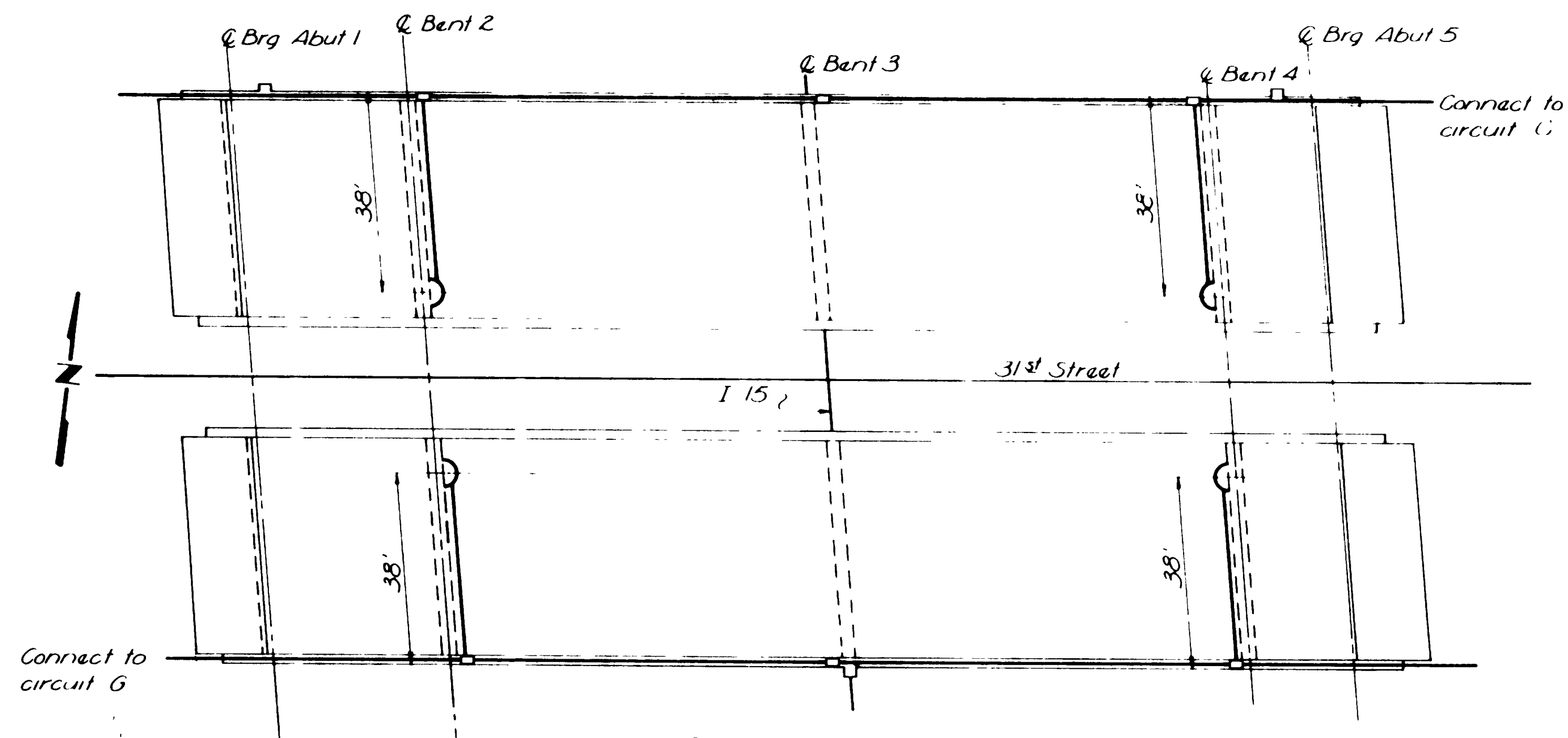
DWG NO. **L-24** SHEET **21** OF **22**

NO.	BY	DATE	REMARKS
REVISIONS			

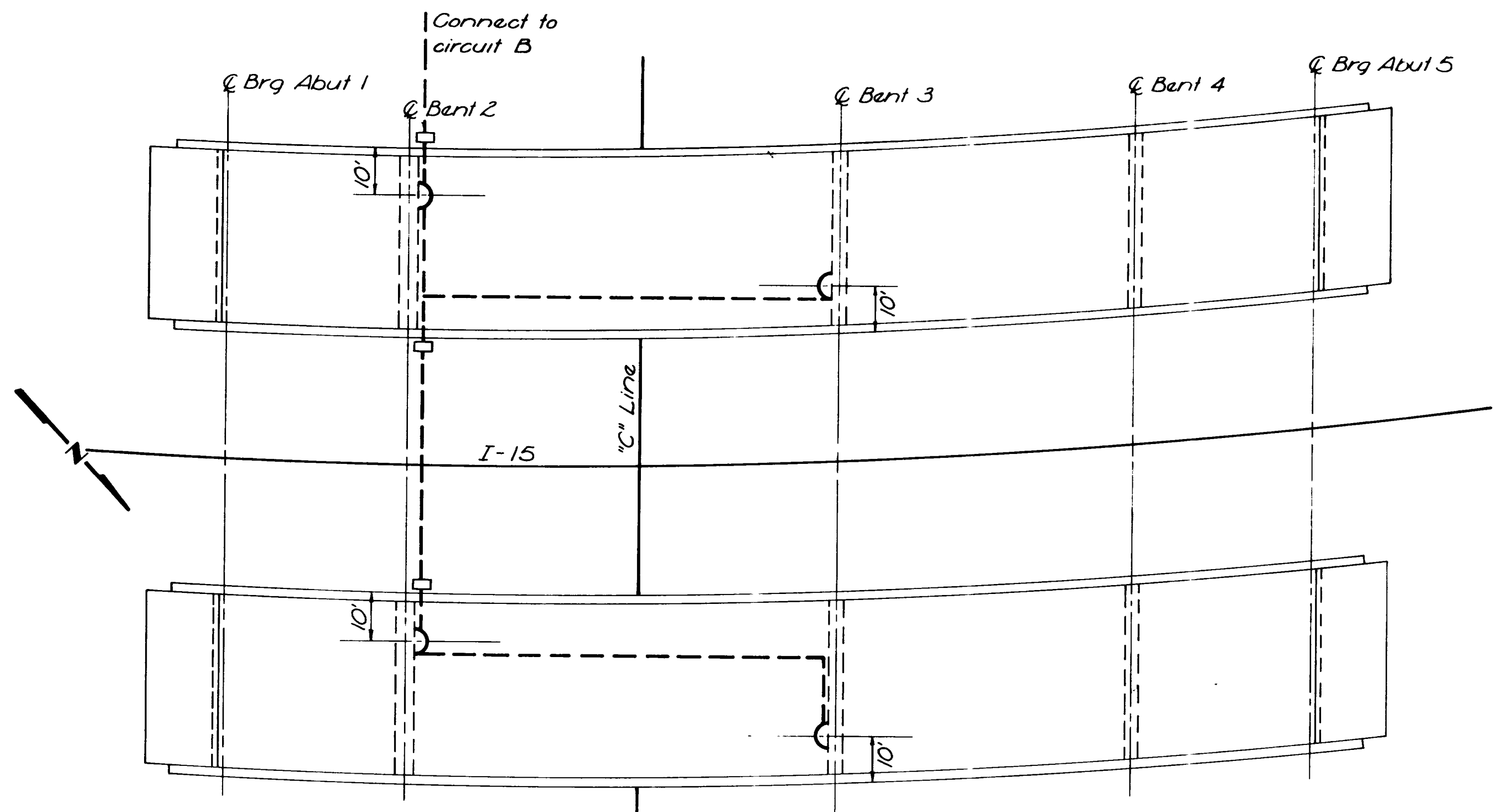
DESIGNED	DATE	PROJECT	SHEET	TOTAL SHEETS
DLJ	5-7-70	I-15-8(36)338	22	22



12th Street Underpass
Dwg. No. C-570



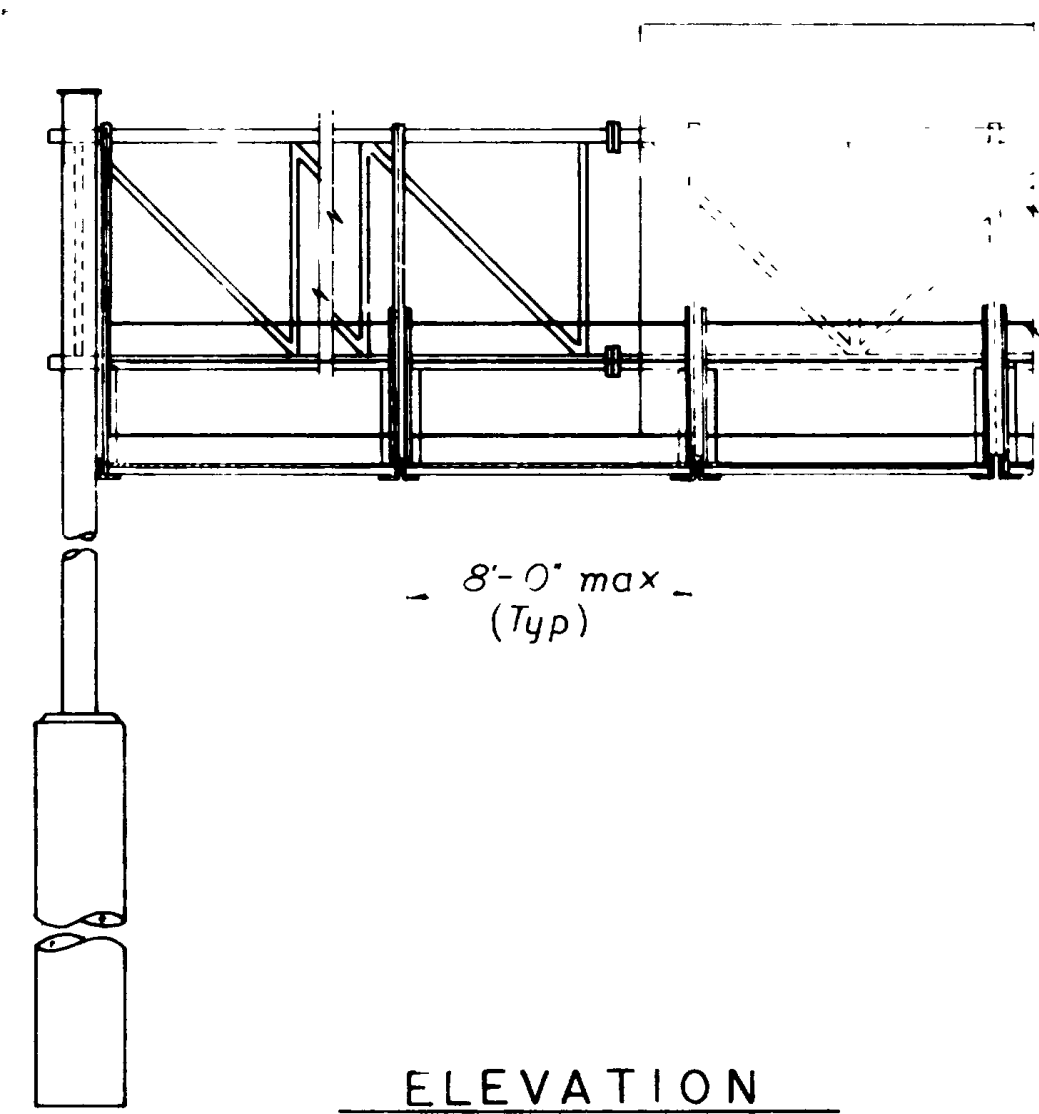
31st Street Overpass
Dwg. No. C-478



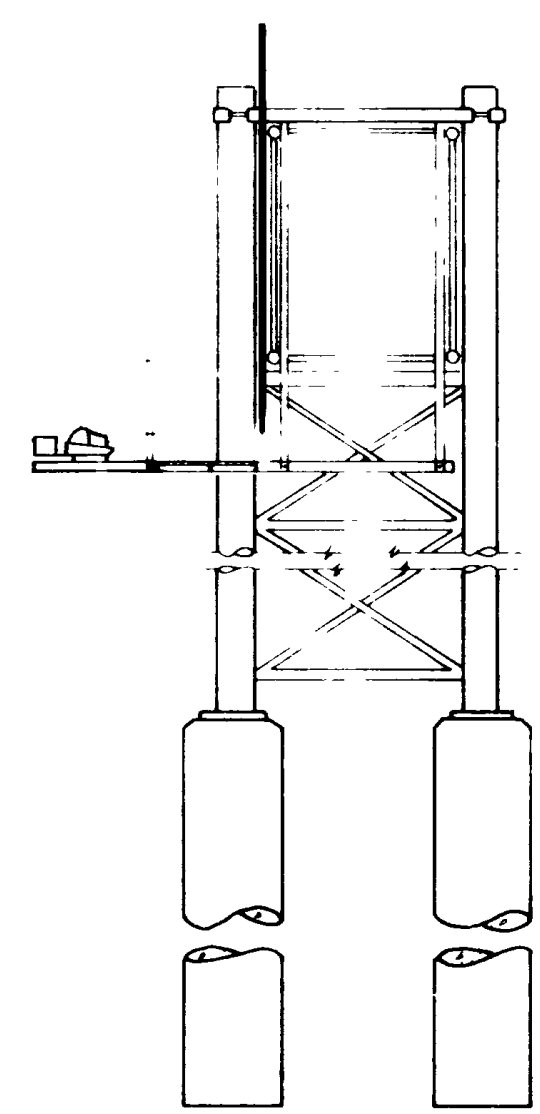
24th Street Underpass
Dwg. No. F-118

NO.	BY	DATE	REMARKS

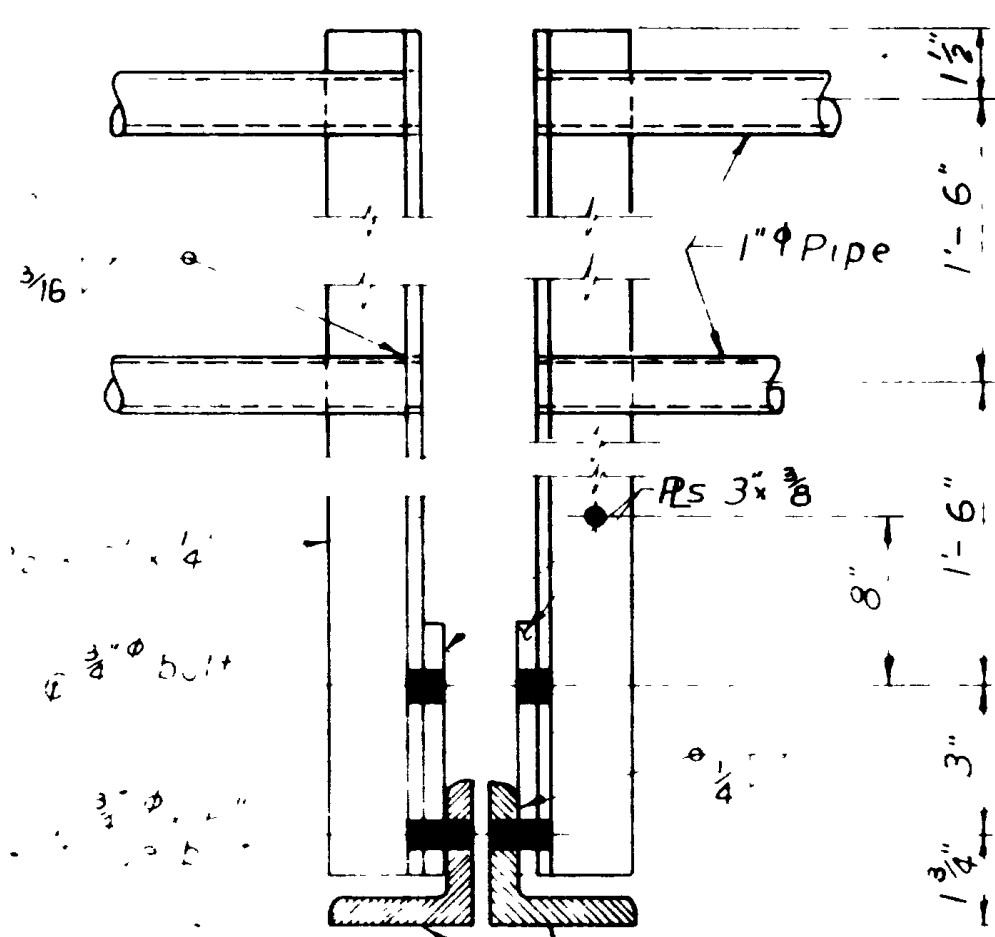
UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DIVISION	
OGDEN INTERCHANGES INTERSTATE LIGHTING UNDERSTRUCTURE LIGHTING PLANS	
DESIGNED <i>R.U.W.</i> DATE 5-8-70	PROJ. NO. I-15-8(36)338
DRAWN <i>DLJ</i> DATE 5-7-70	STA.
CHECKED <i>K.F.H.</i> DATE 6-19-70	COUNTY <i>Weber</i>
APPROVAL RECOMM. 6-30-70 <i>R. J. Bodin</i>	
APPROVED _____	CHIEF TRAFFIC ENGINEER
DWG. NO. L-24	SHEET 22 OF 22



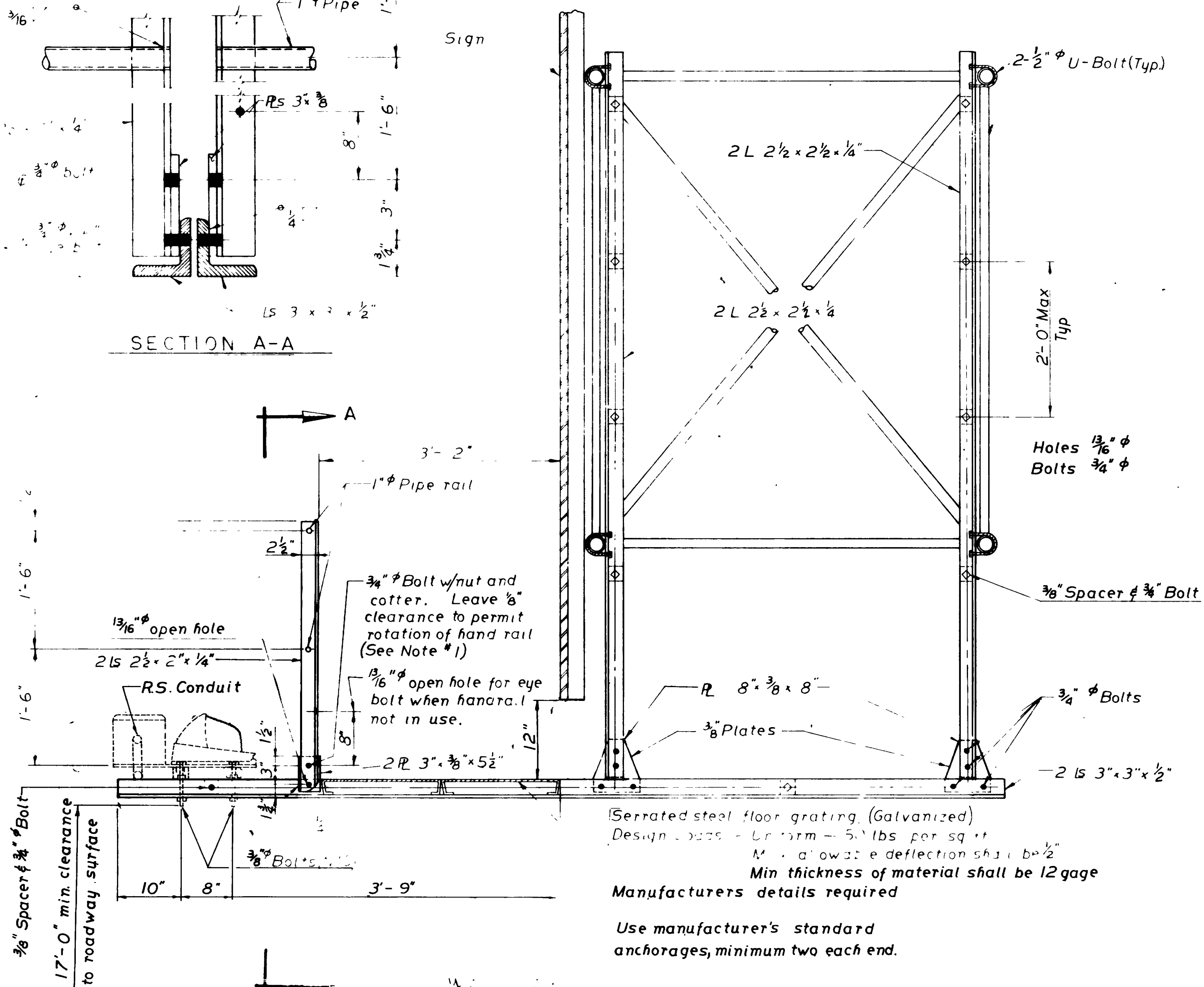
ELEVATION



TYPICAL SECTION



SECTION A-A



QUANTITY FOR MAINTENANCE WALKWAY

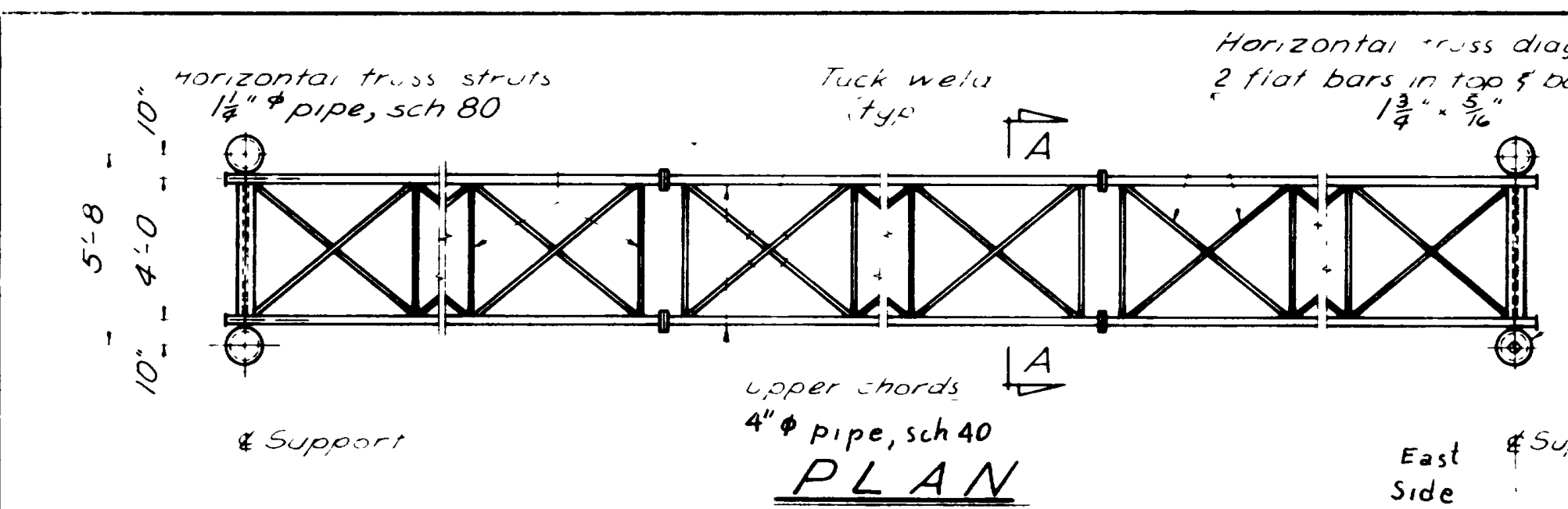
Structural Steel - Weight of one 8'-0" panel = 625 lbs (Approx)

Walkway shall extend full length of overhead sign structures.

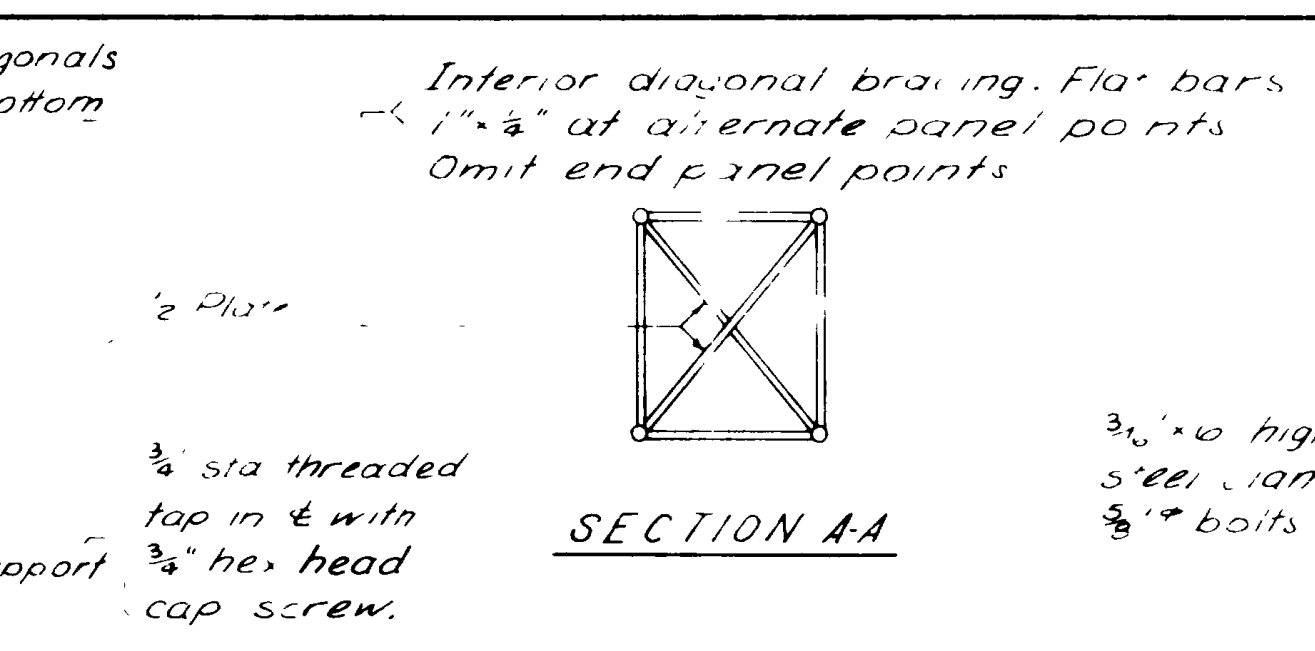
NOTES:

- 1- 12" long weather proof chain or flexible wire (capable of resisting 25 lb tension) bolted to frame with 3/4" bolt and attached at free end to 3/8" x 6" bolt or eye bolt
- 2- Conduit, lighting fixtures, and supporting channel not included in contract See Drg No 1198 & 1199
- 3- Handrail to be folded down onto walkway when not in use
- 4- Grating for maintenance walk shall be hot dip galvanized after fabrication, in accordance with provisions of Spec ASTM A-525 Class 250. All other parts of maintenance walk shall be hot dip galvanized after fabrication, in accordance with A.A.S.H.O. M-III (A.S.T.M. A-123)
- 5- Location for support members to be attached to existing sign structures shall be verified in the field by the contractor. Existing structural members shall not be cut
- 6- All structural steel shall meet A.S.T.M. Specification A-107, Maximum Carbon .30.
- 7- All bolts shall be "High Strength" and shall conform to Spec ASTM A-325

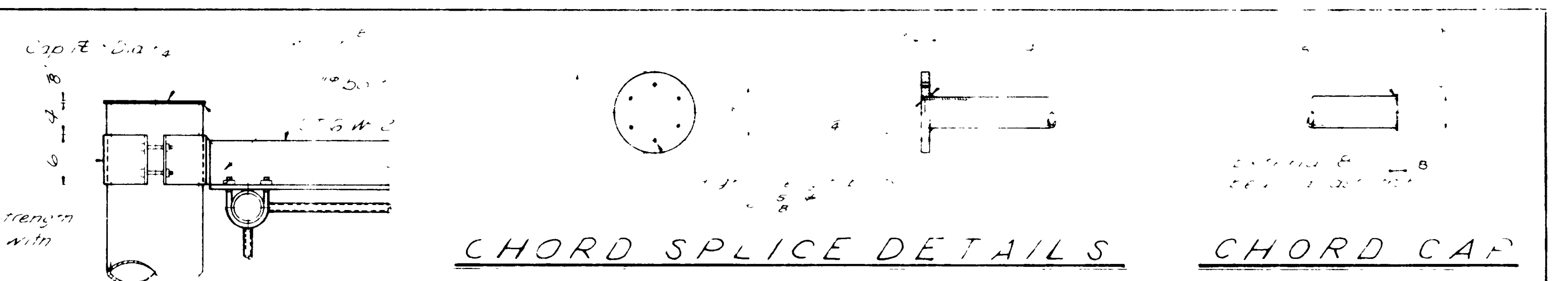
UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH STRUCTURES DIVISION		
31. STREET TO HOT SPRINGS IN OGDEN		
MAINTENANCE WALK DETAILS FOR SIGN STRUCTURES		
DESIGNED BY BLT	CHECKED BY MW	PROJECT NUMBER I-76-15-8(23)336
DRAWN BY U.M.S.	DATE 3/12/68	STATION
APPROVED 29 Jun 66	BY Genl I Taylor	CITY WEBER
DATE 3/12/68		BY A. C. Hanson
G-93B		1-1



PLAN

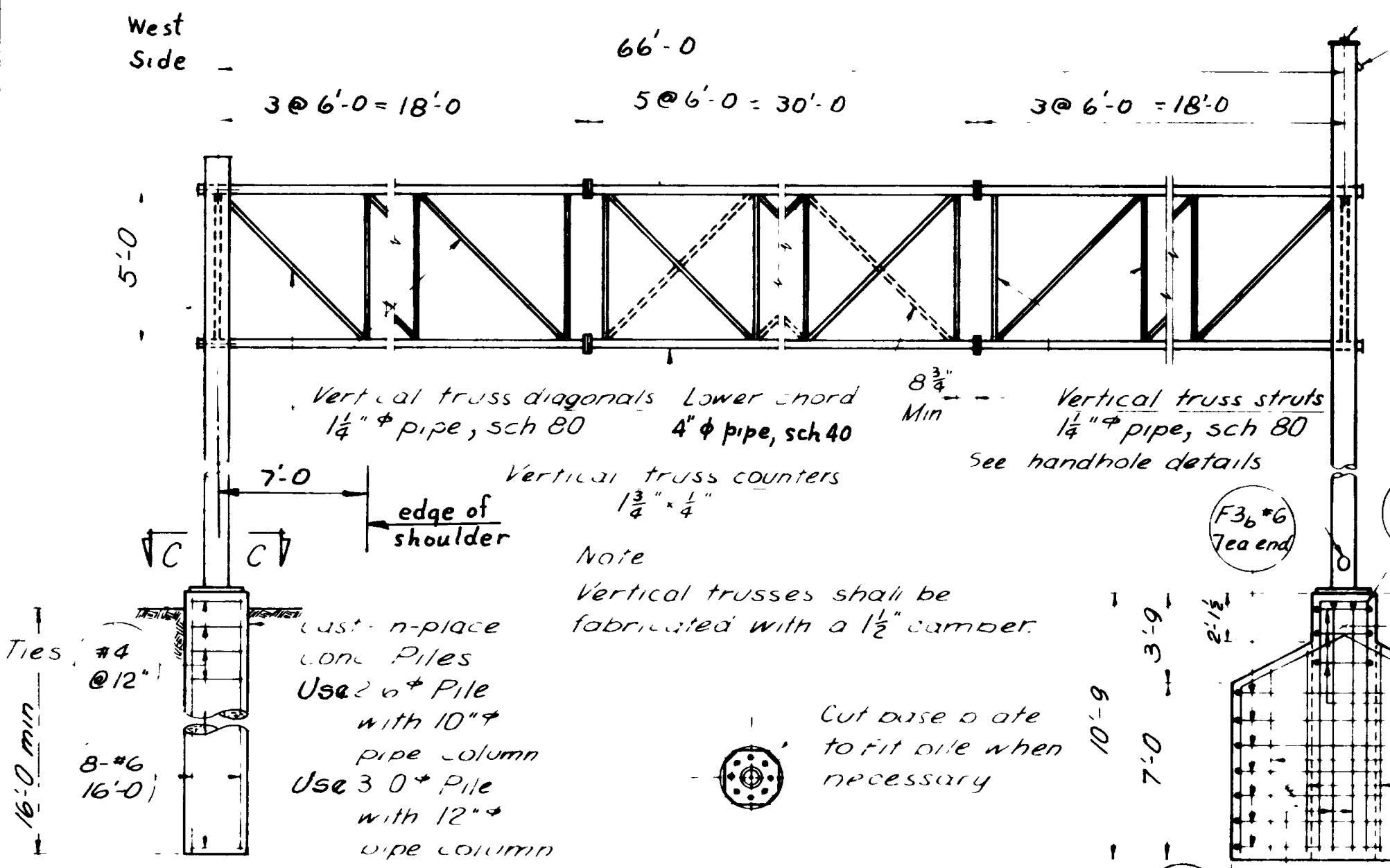


SECTION AA

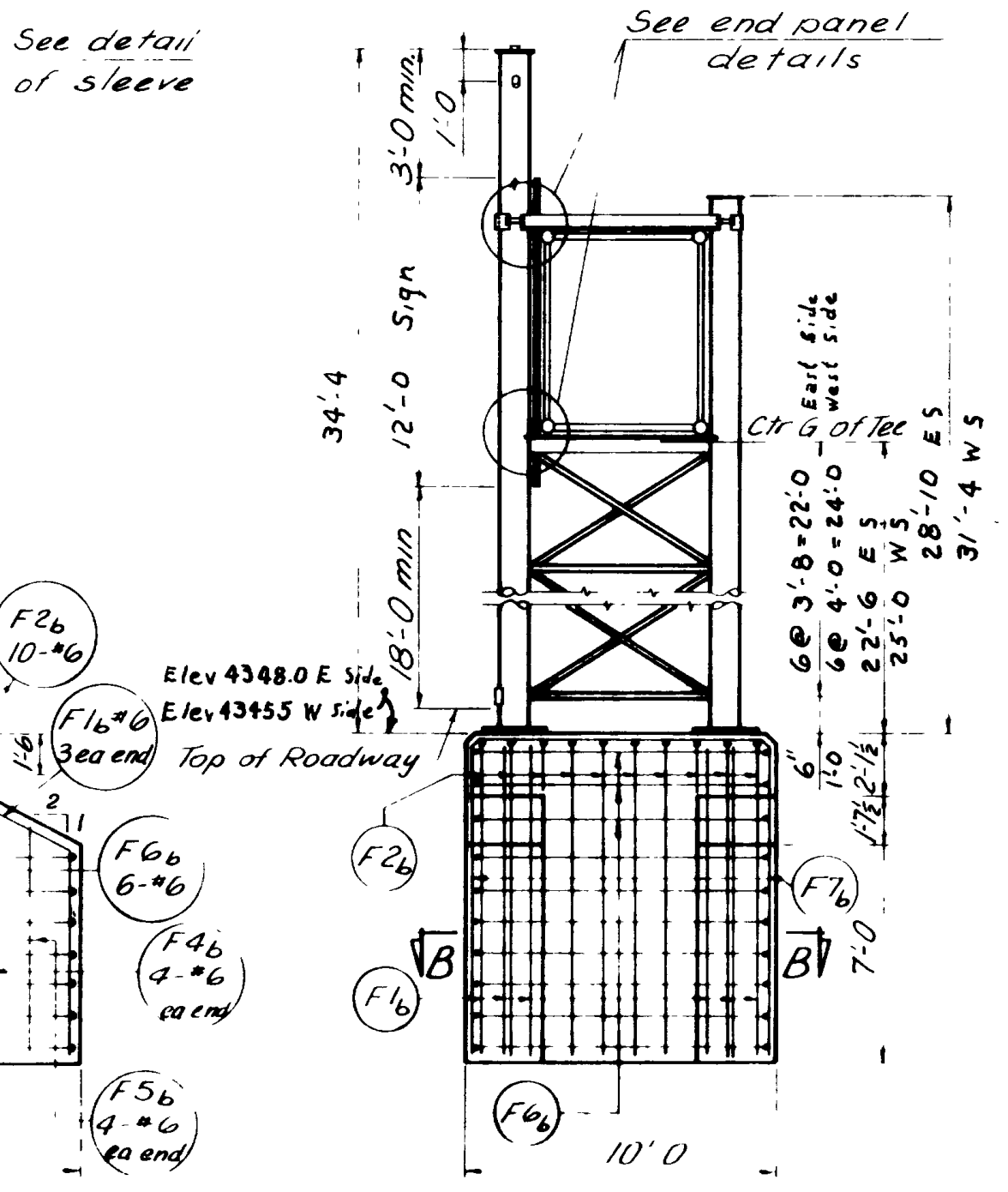


CHORD SPLICE DETAILS

CHORD CAP

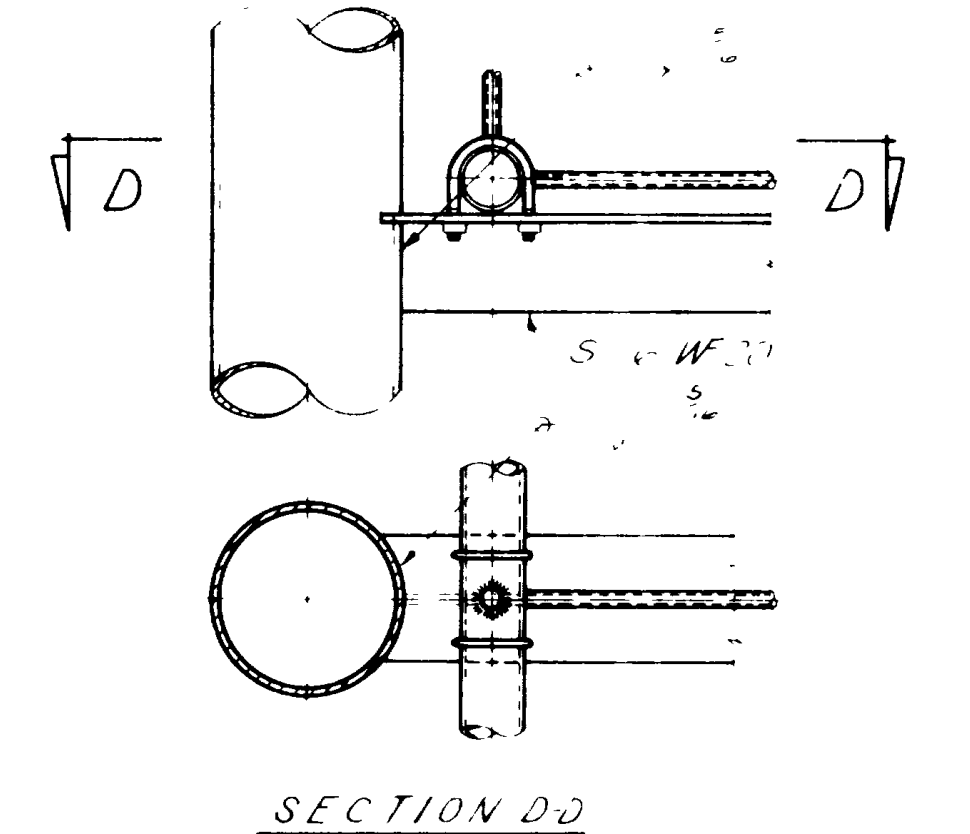


ELEVATION

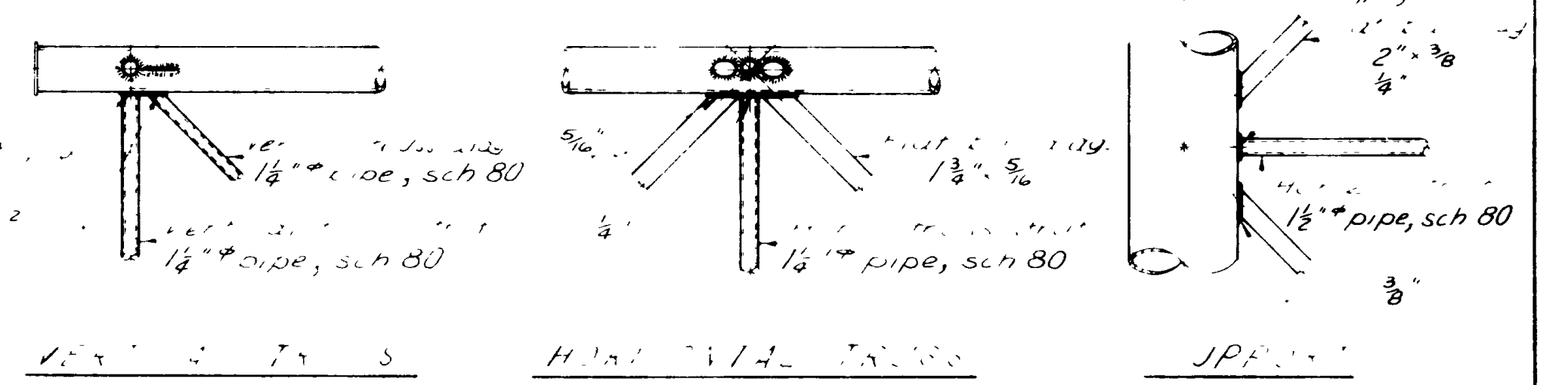


SECTION BB

END PANEL DETAILS



SECTION DD



PANEL POINT DETAILS

GENERAL NOTES

1. All work shall be in accordance with the specifications for Road and Bridge Construction, 9th Edition, and supplements thereto, which are in effect at the date of this contract.

2. All steel shall be in accordance with the specifications for Steel for Bridges and Buildings, 10th Edition, and supplements thereto, which are in effect at the date of this contract.

3. All steel shall be galvanized in accordance with the specifications for Galvanizing of Steel, 10th Edition, and supplements thereto, which are in effect at the date of this contract.

4. Reinforcing steel shall be intermediate grade billet steel conforming with AASHTO designation M-3. Deformations shall be in accordance with that on M-137. All dimensions relating to reinforcing steel shall be center to center of bars.

5. All steel shall be cut and bent to order.

6. All steel shall be cut and bent to order.

7. All steel shall be cut and bent to order.

8. All steel shall be cut and bent to order.

9. Design is in accordance with AASHTO Specifications for the Design & Construction of Structural Supports for Highway Signs 1961 Edition, 40 p.s.f. wind load $f_y = 20,000 \text{ psi}$; $f_c = 12,000 \text{ psi}$.

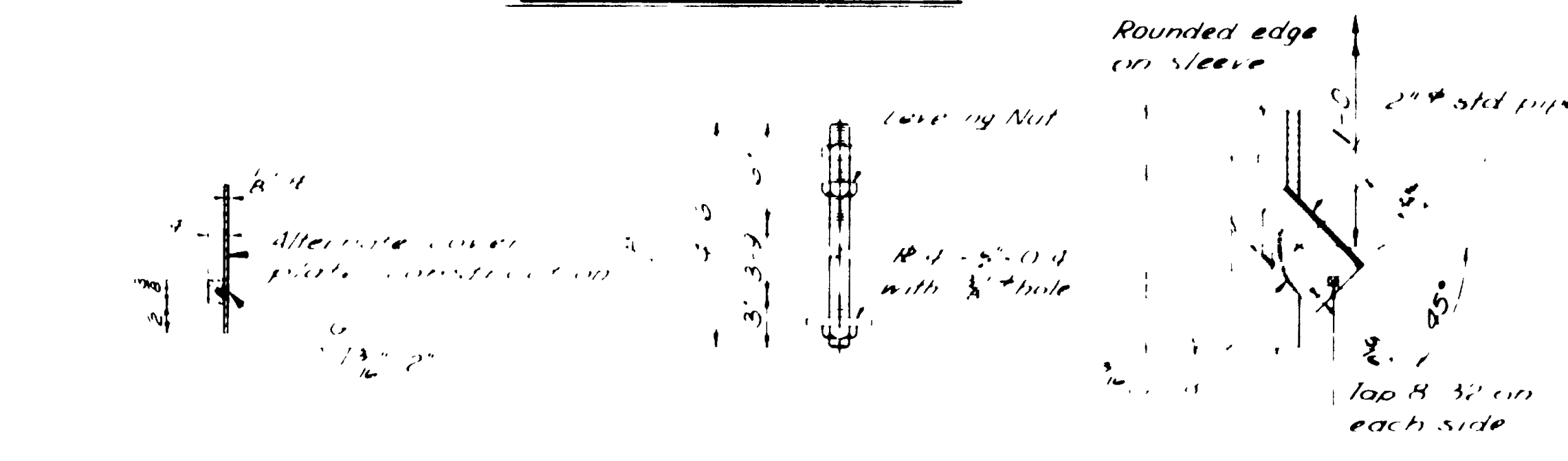
10. Galvanizing will be permitted in accordance with AASHTO designation M-111 (ASTM-A123) Subject to the approval of the Chief Structural Engineer.

11. See sheet G-93 for Maintenance Walk details.

STANDARD FOOTING

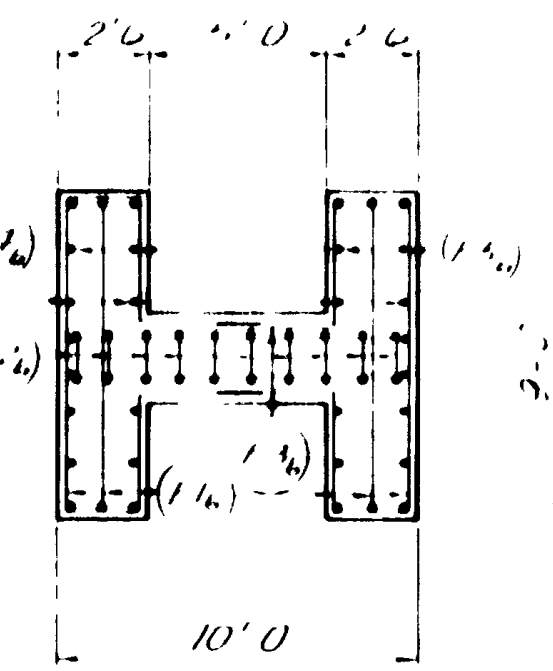
SECTION CC

OPTIONAL FOOTING



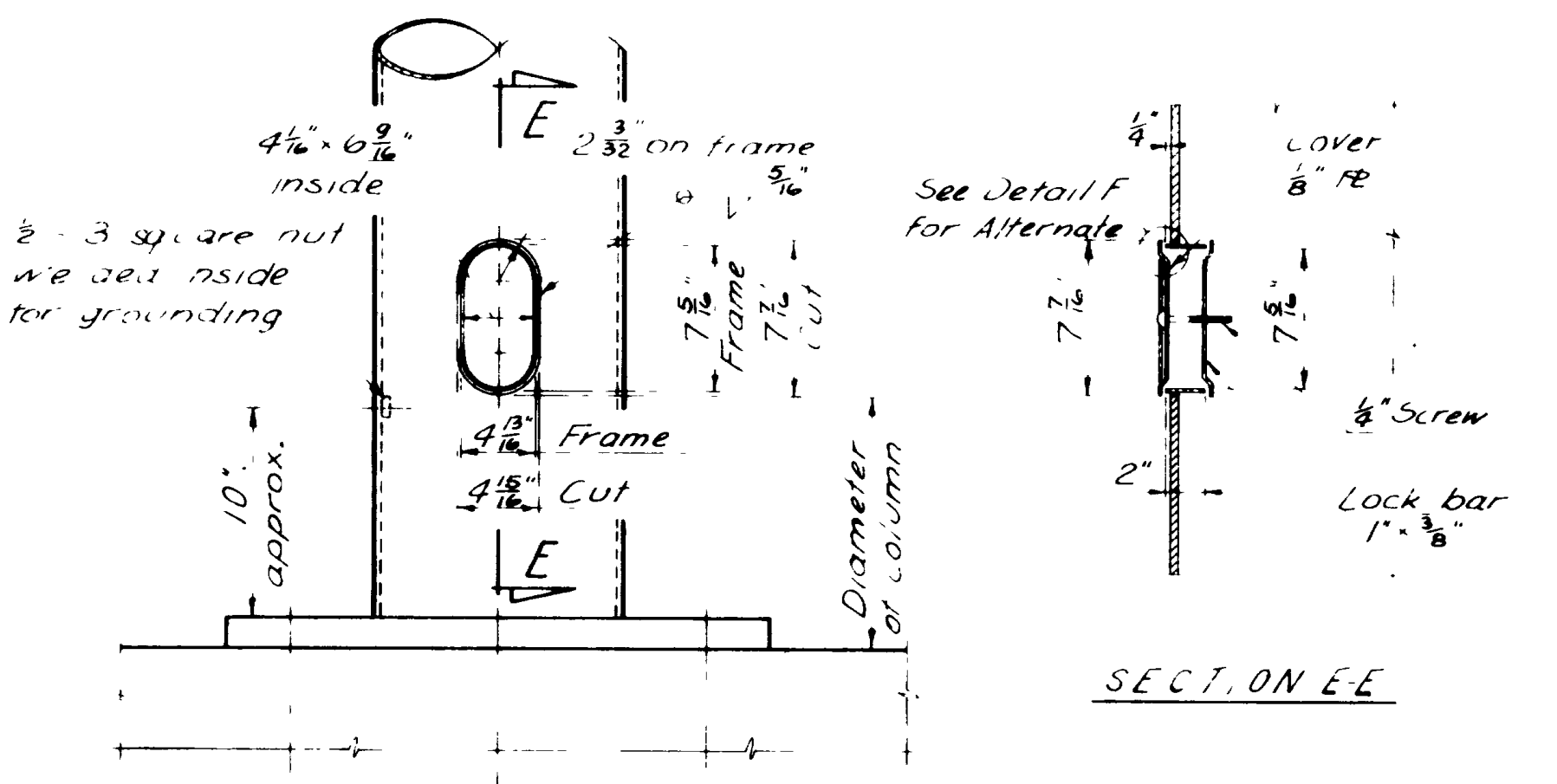
DETAIL F

ANCHOR DETAIL OF BOLT STEEL SLEEVE

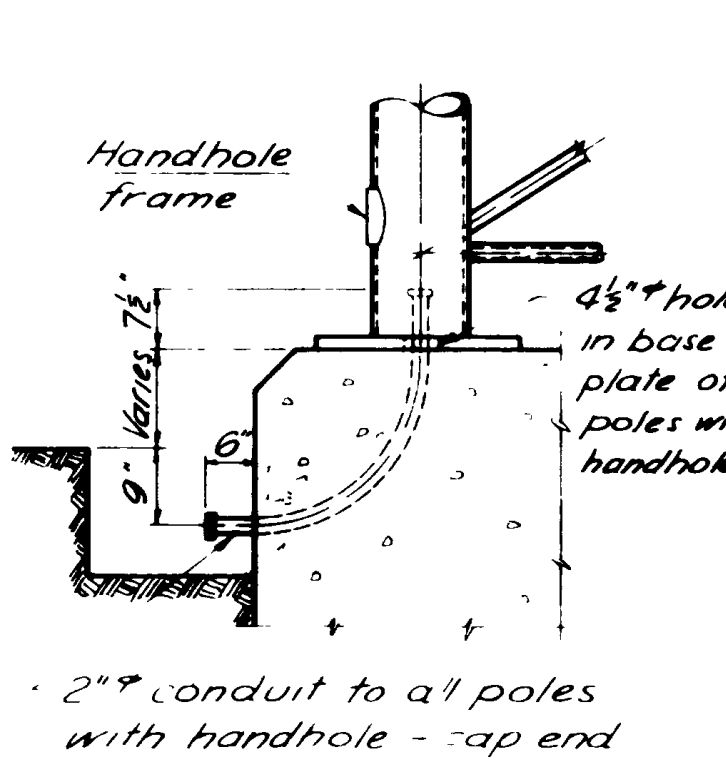


SECTION BB

BASE PLATE DETAILS



HANDHOLE DETAILS



CONDUIT IN FOOTING

Mark	Size	Length	No Bars	Sketch
F1b	6	22'-5"	12	(F1b)
F2b		22'-3"	20	(F2b)
F3b		26'-3"	28	(F3b)
F4b		7'-10"	16	(F4b)
F5b		7'-3"	16	(F5b)
F6b		13'-1"	12	(F6b)
F7b	6	29'-6"	4	(F7b)

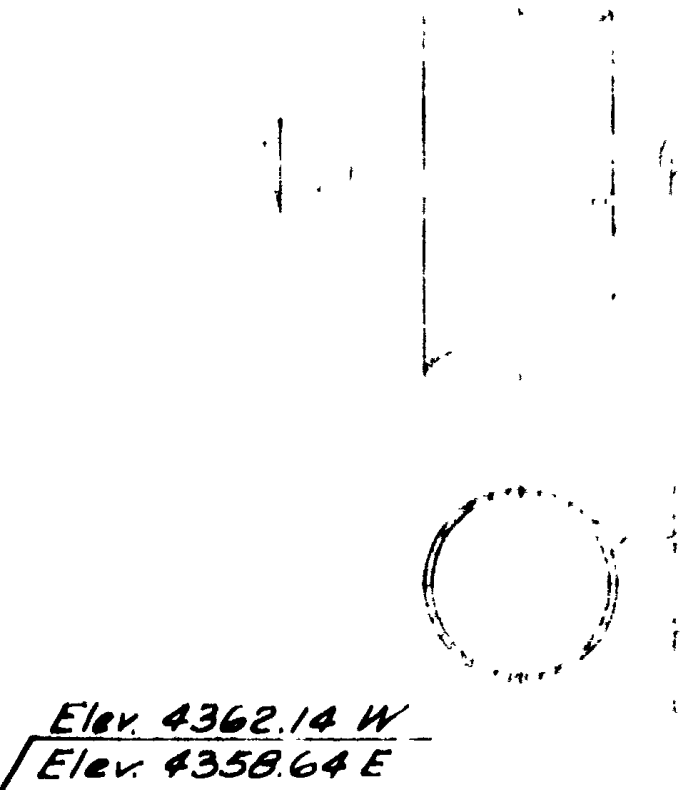
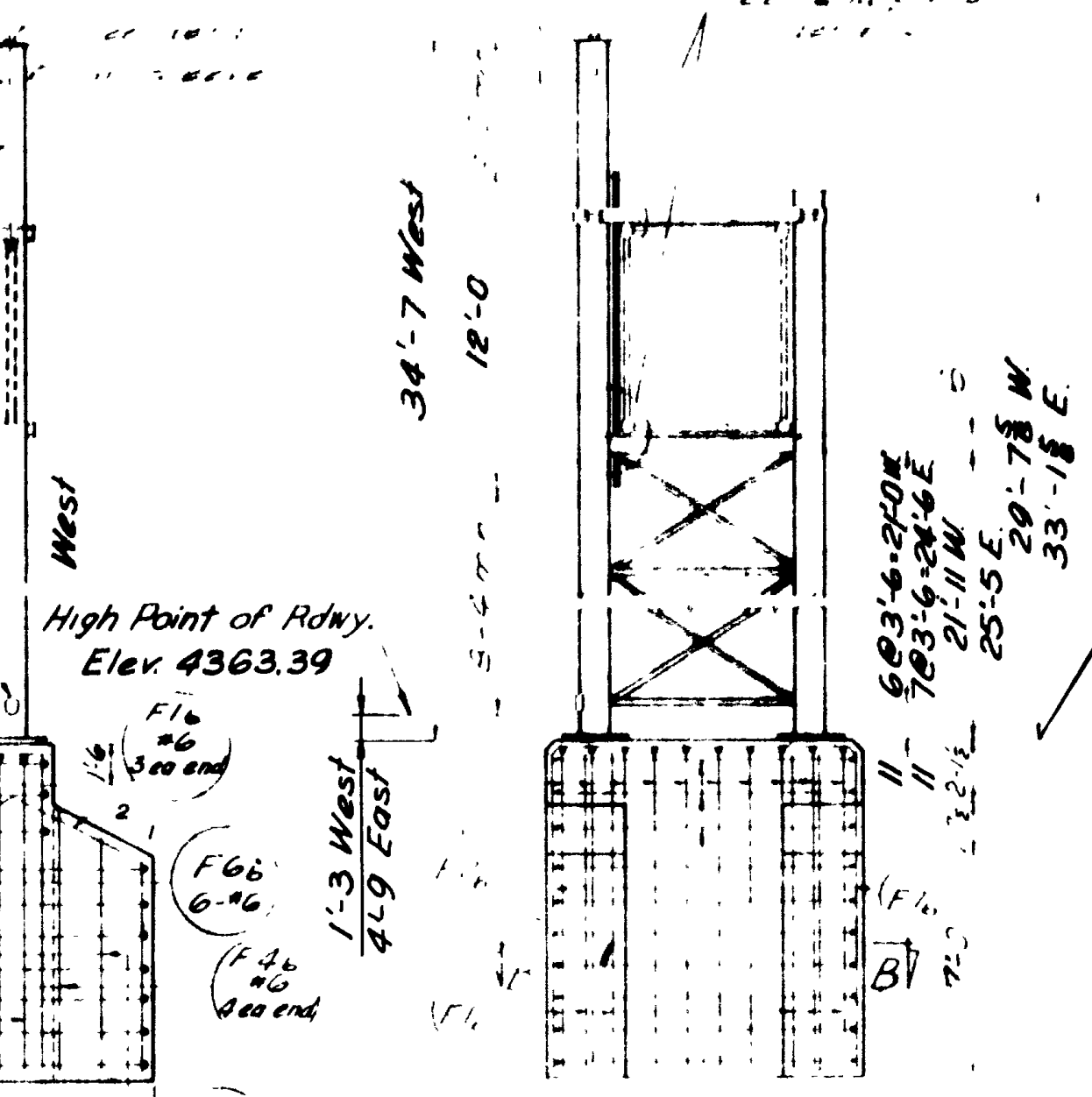
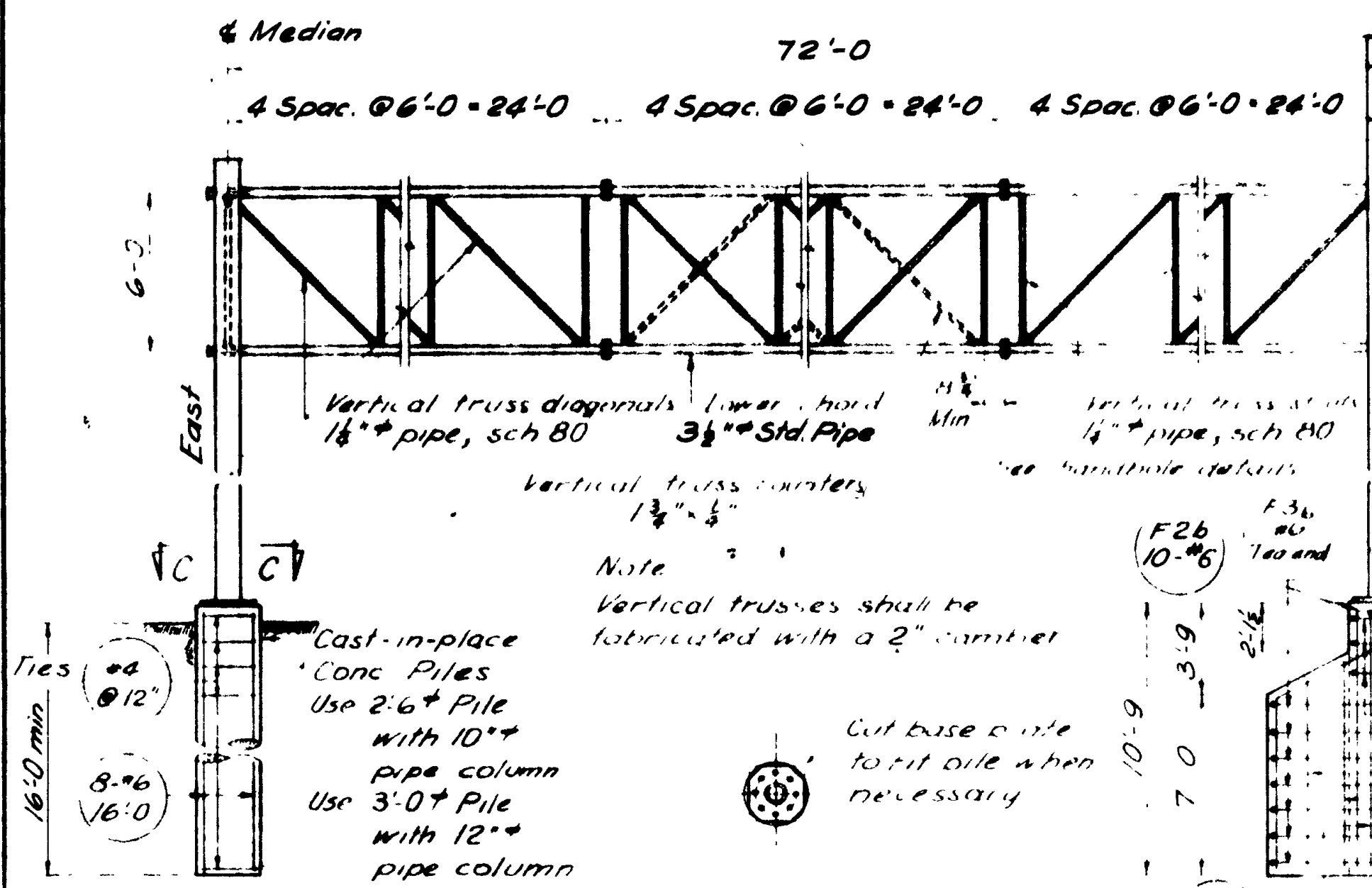
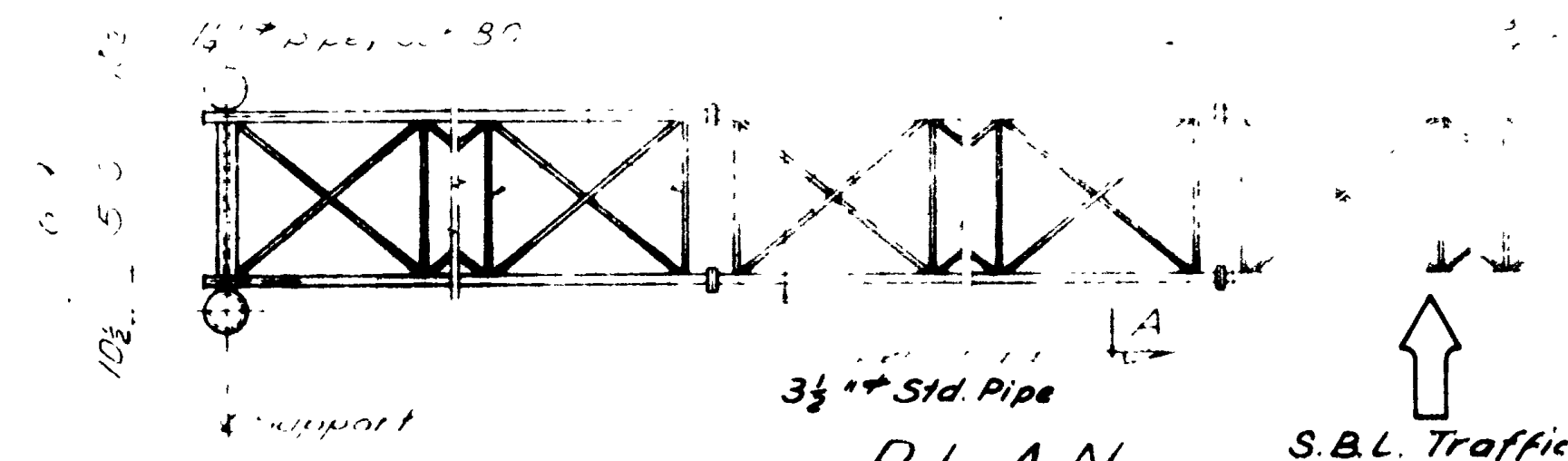
UTAH STATE DEPARTMENT OF HIGHWAY STRUCTURES DIVISION
 Davis Co Line - 31st Street
 Sta 1035+15 No Bound I-15
 OVERHEAD SIGN STRUCTURE

BLT MW I-15-8(21)334
 BLT AOB

2 Nov 66 Bud I Taylor 1035+15
 APPR 11/19/66 J. E. Mansson Weber

NO. BY DATE REVISIONS REMARKS
 BR NO. G-101 1 1

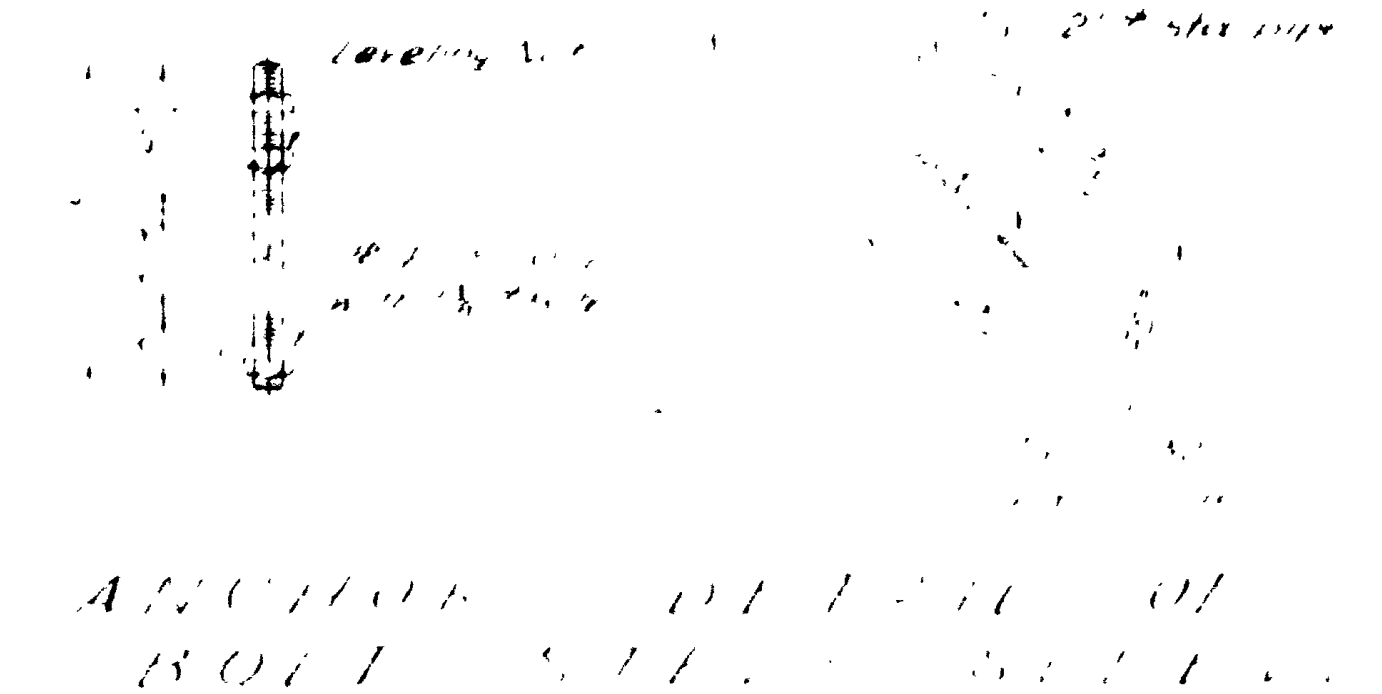
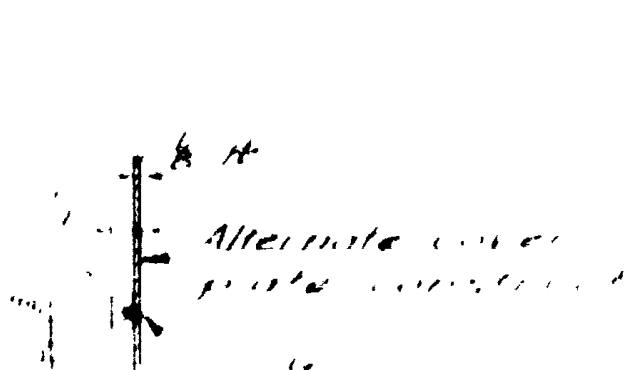
Final See 11/19/66



STANDARD FOOTING

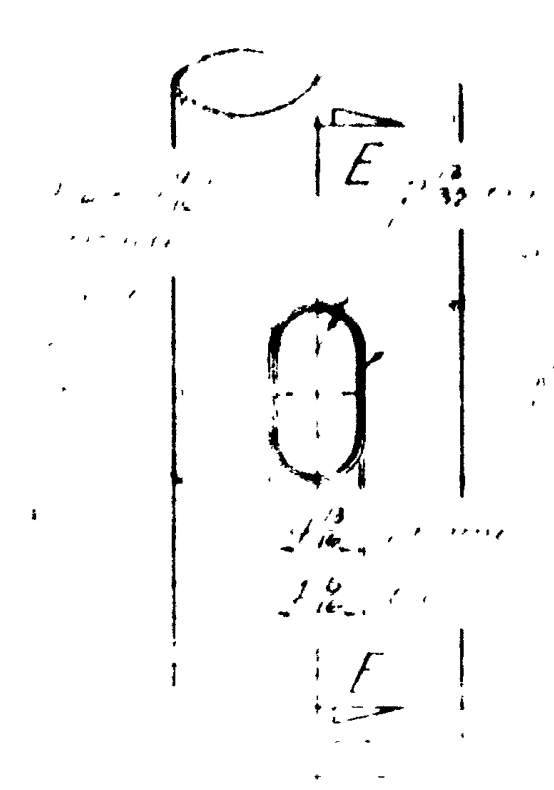
SECTION CC ELEVATION

OPTIONAL FOOTING ELEVATION



DETAIL F

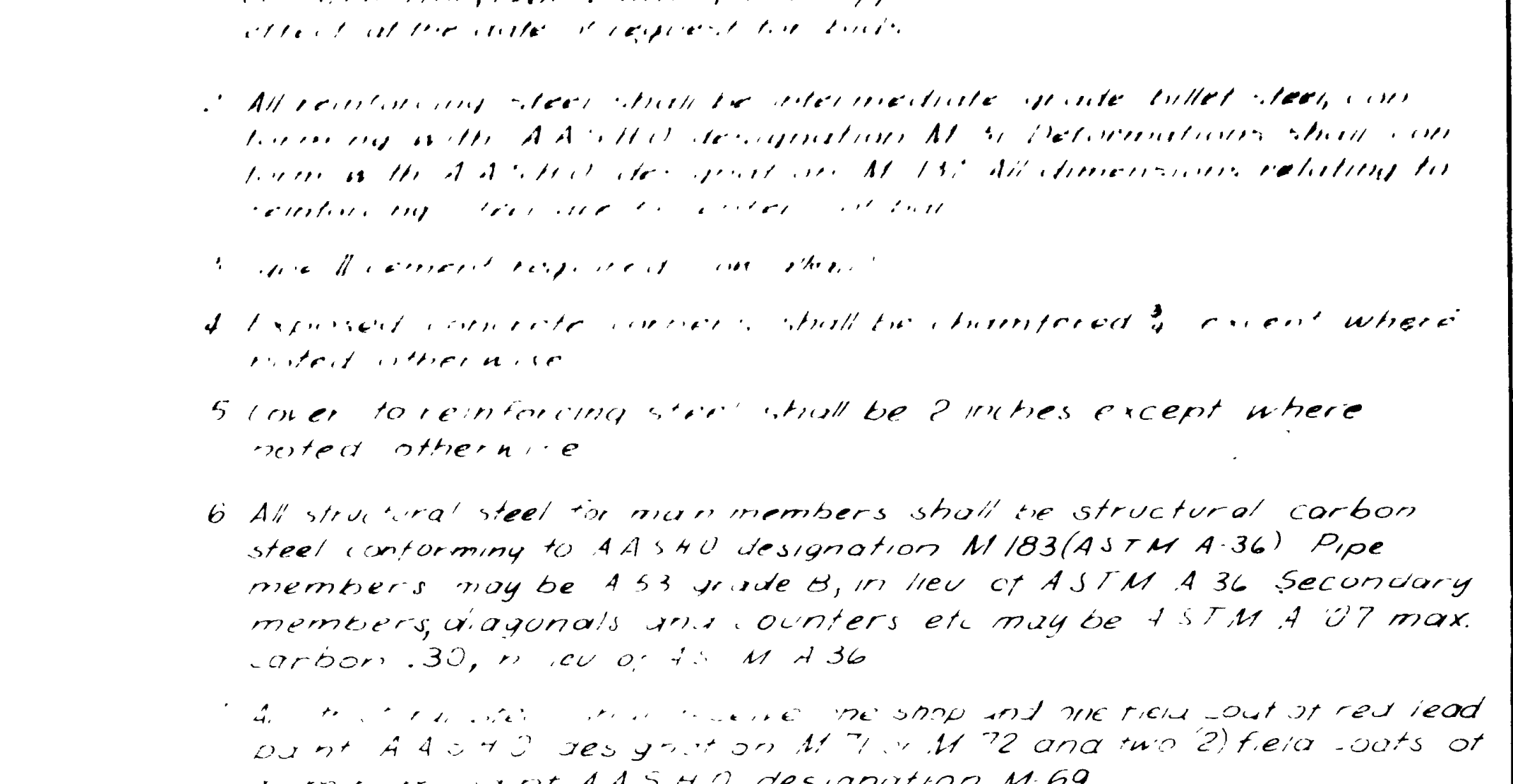
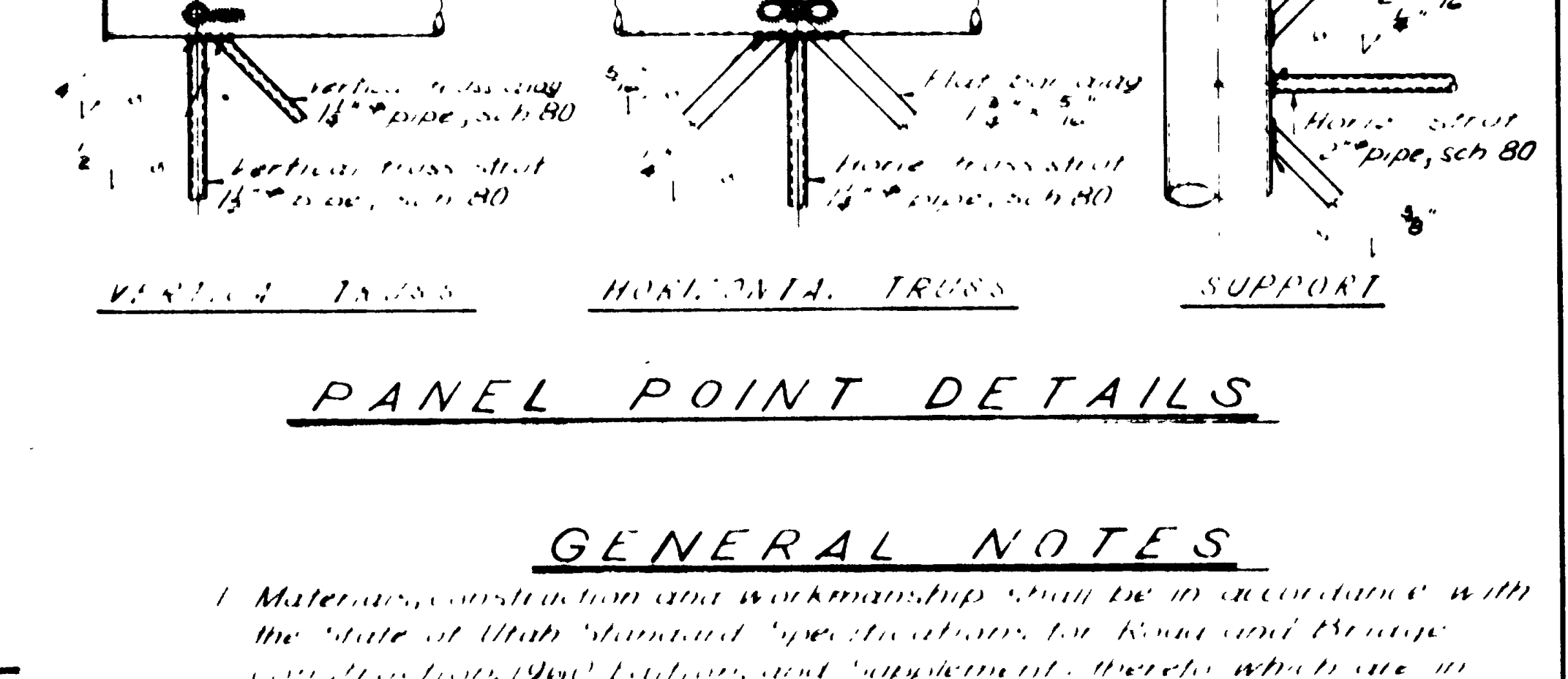
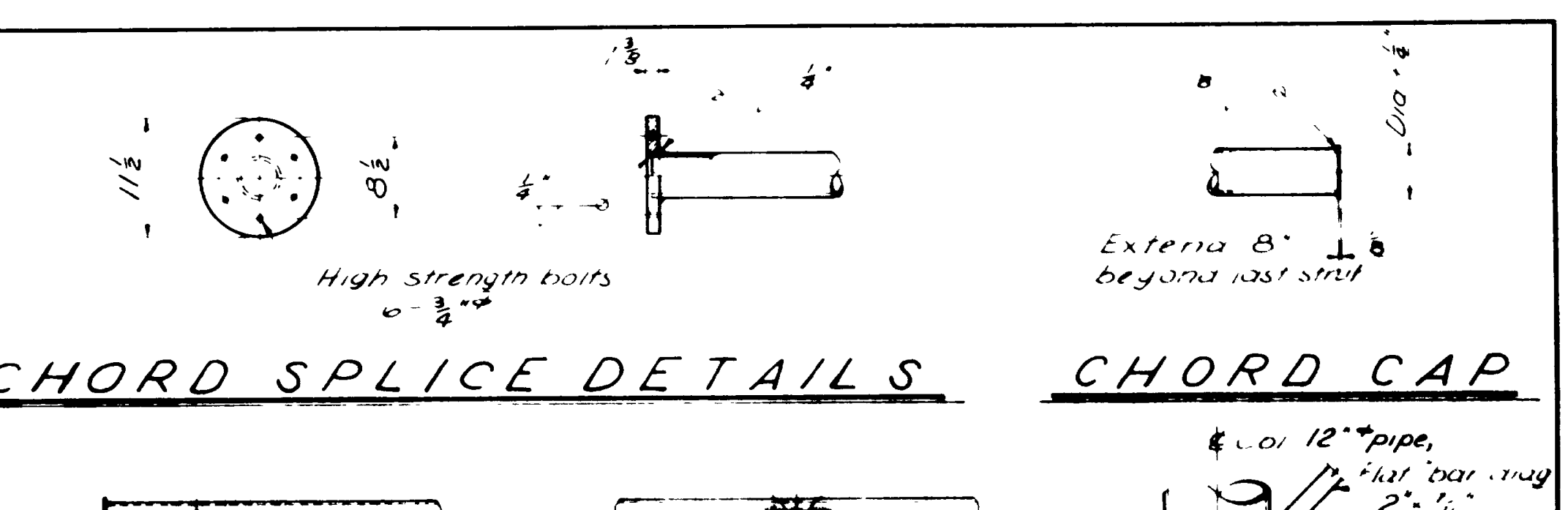
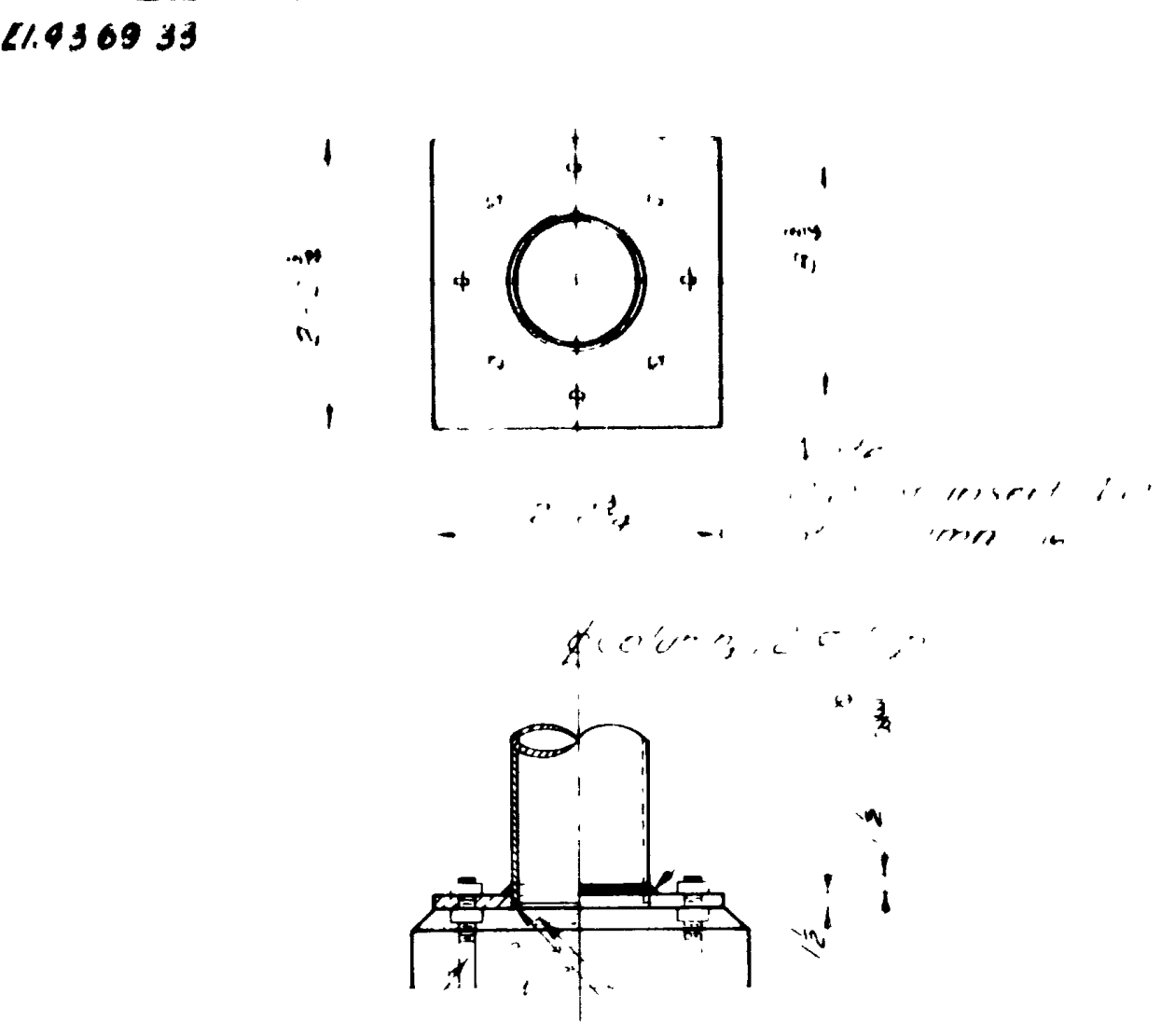
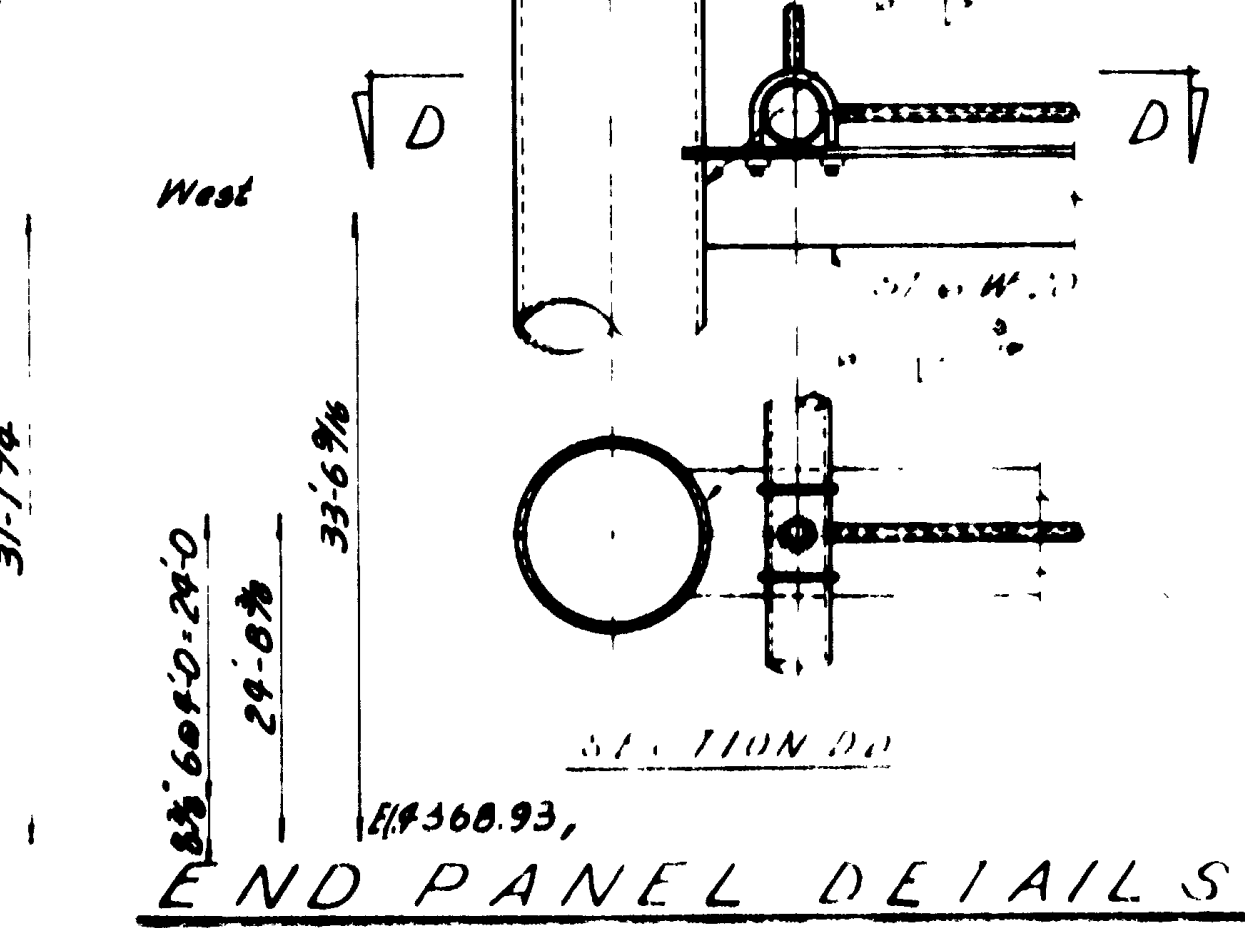
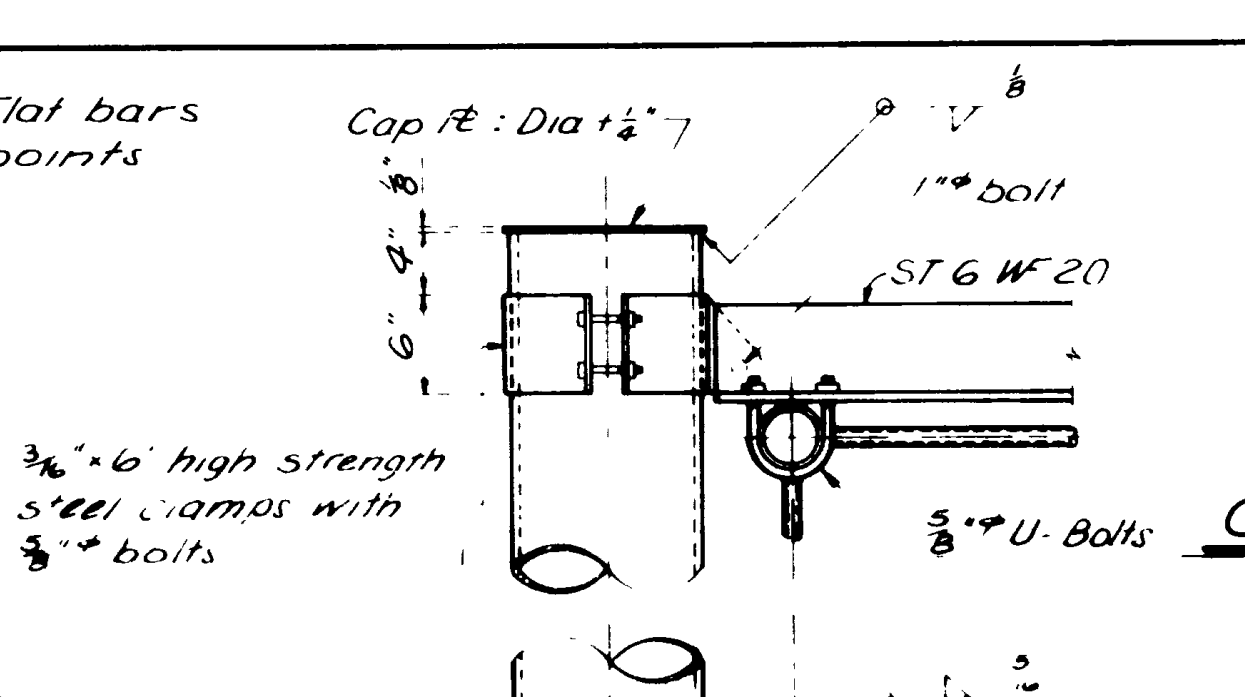
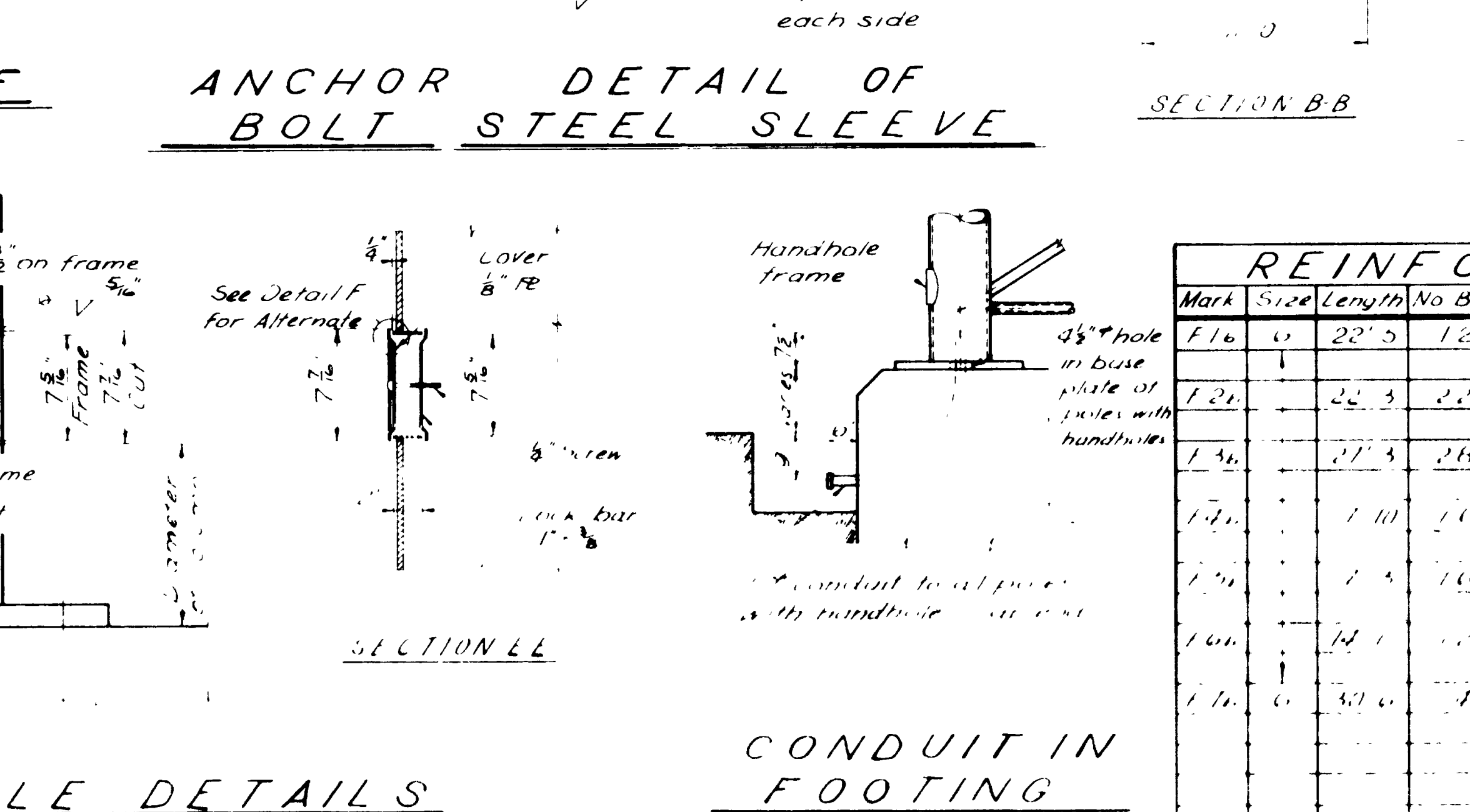
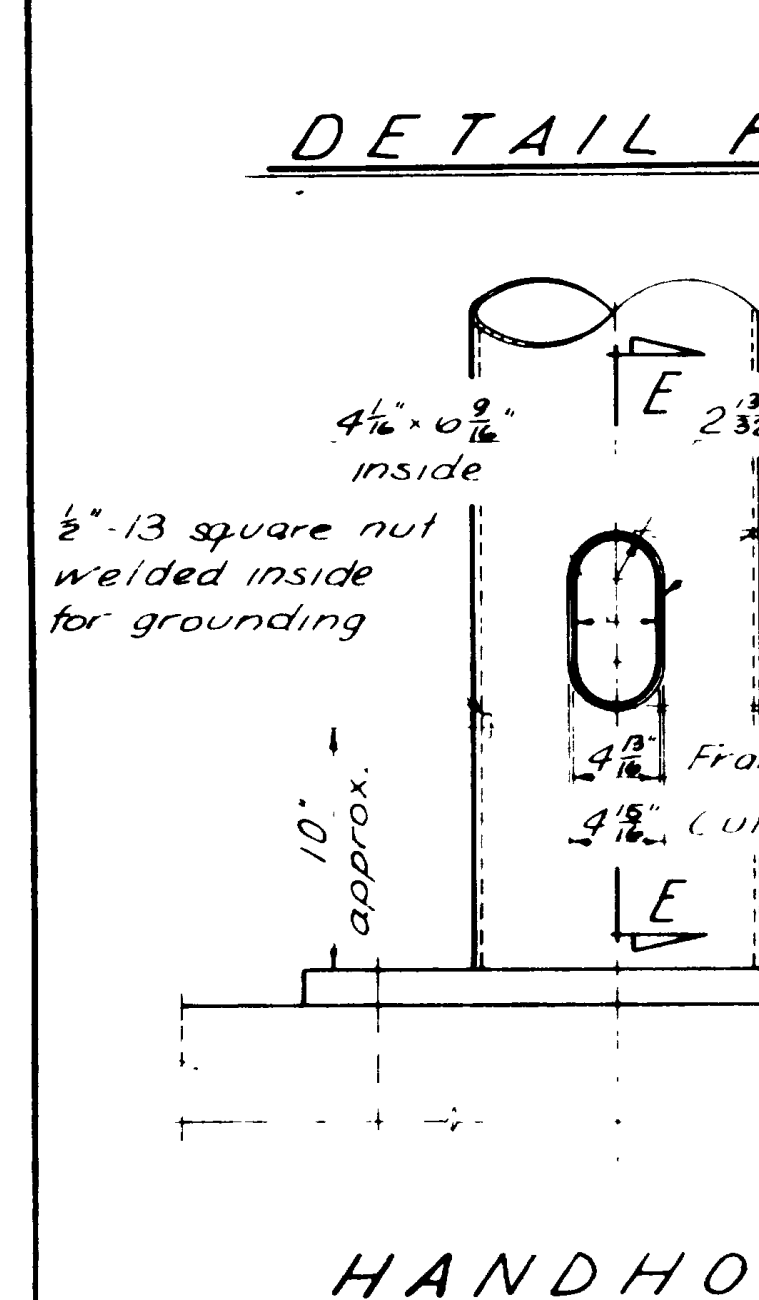
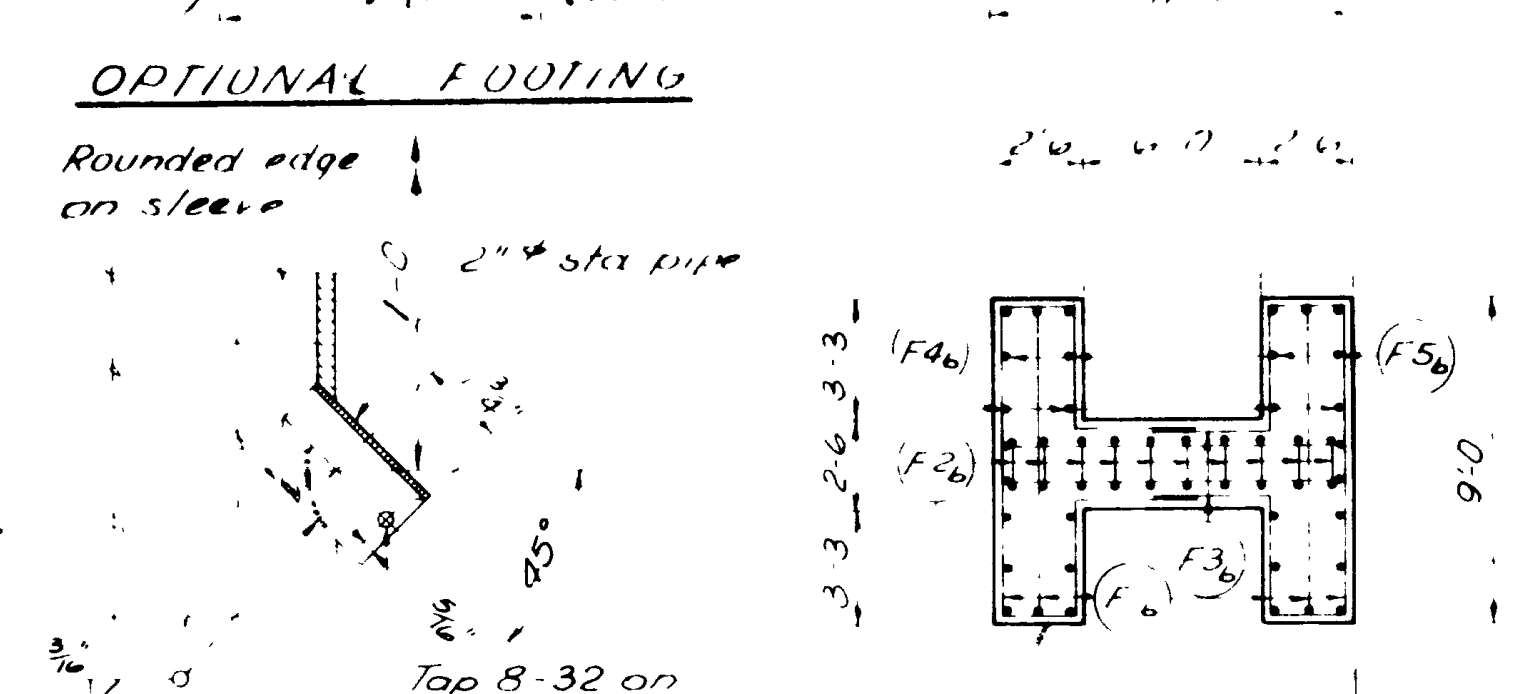
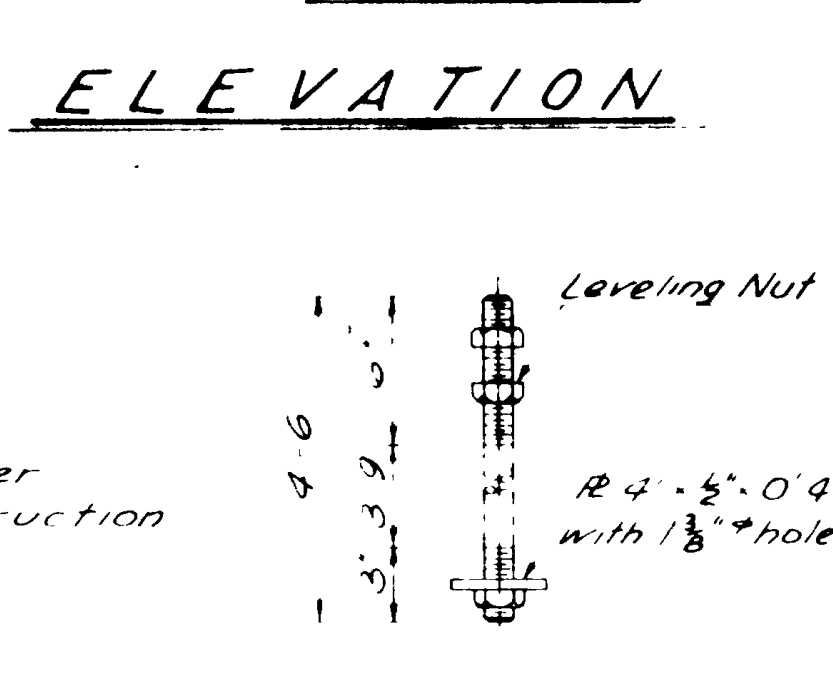
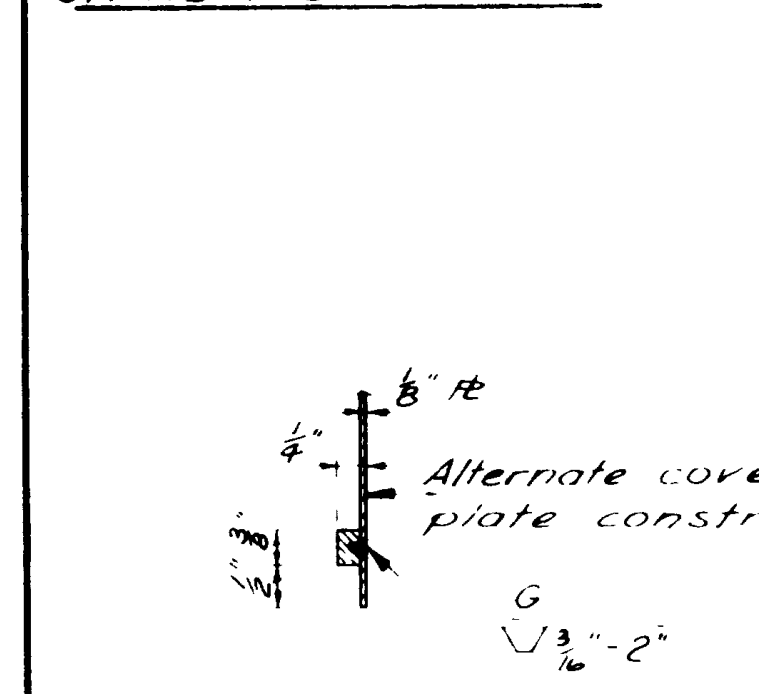
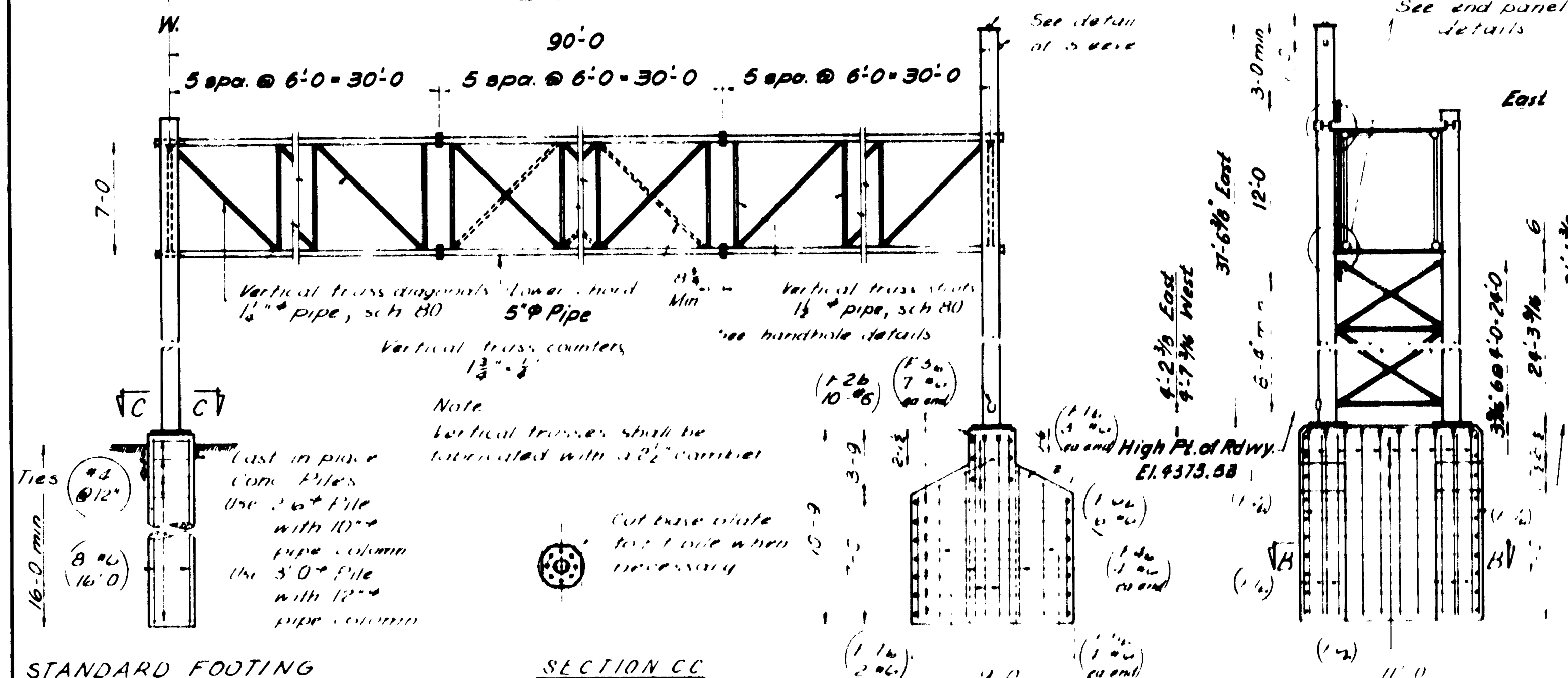
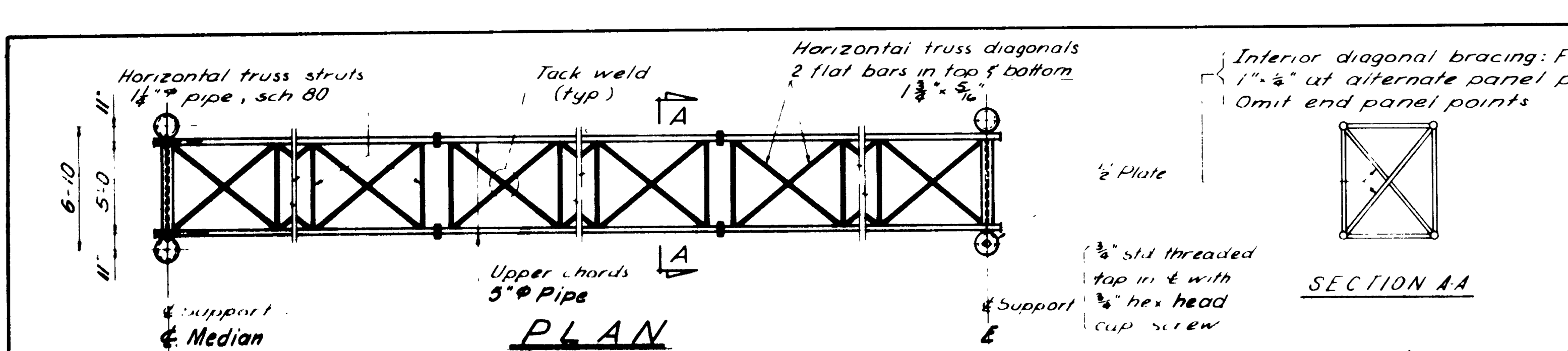
ANCHOR DETAIL OF BOLT CONNECTION



31ST STREET TO HOT SPRINGS IN OGDEN

1943-2748 1943-2748 67 Cont. 1077+00 S.B.L.
 1943-2748 1943-2748 1077+00 S.B.L.
 3/29/68 A. S. Manson WEBER

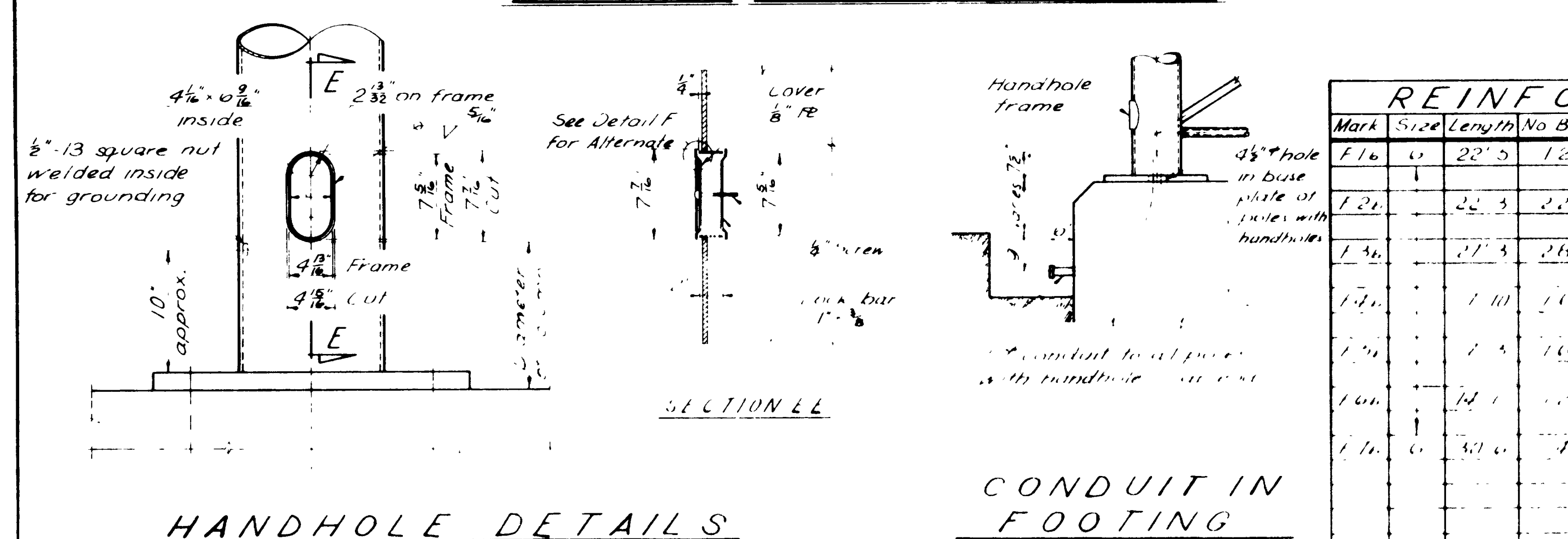
Δ 1943-2948 New Draw



- ### GENERAL NOTES
- Materials, construction and workmanship shall be in accordance with the State of Utah Standard Specifications for Road and Bridge Construction, 1961 Edition, and Supplement, thereto which are in effect at the date of request for bids.
 - All reinforcing steel shall be intermediate grade hot-rolled steel conforming with AASHTO designation M 55. Deformations shall conform with AASHTO designation M 15. All dimensions relating to reinforcing steel are to center of bar.
 - Use all cement specified on sheets.
 - Exposed concrete corners shall be chamfered 3/4" except where noted otherwise.
 - Cover to reinforcing steel shall be 2 inches except where noted otherwise.
 - All structural steel for main members shall be structural carbon steel conforming to AASHTO designation M 183 (ASTM A 36). Pipe members may be A 53 grade B, in lieu of ASTM A 36. Secondary members, diagonals and counters etc may be ASTM A 107 max. carbon 30, in lieu of A 36 M 183.
 - Hot-dip galvanized steel shall be the shop and field coat of red lead paint AASHTO designation M 71 or M 72 and two (2) field coats of zinc rich paint AASHTO designation M 69.
 - Painting shall be in accordance with the State of Utah Standard Specifications for Road and Bridge Construction.
 - The sign bridge shown is based on Highway Hardware Technical Notes 4, Vertical Signs and Sign Support, United States Steel Corp. Other commercial designs are acceptable subject to the approval of the Chief Structural Engineer.
 - Design is in accordance with AASHTO Specifications for the Design & Construction of Structural Supports for Highway Signs, 1961 Edition, 40 psf wind load.
 - Materials and workmanship shall be in accordance with AASHTO Specifications for Highway Signs, 1961 Edition, 40 psf wind load.
 - Design is in accordance with AASHTO Specifications for the Design & Construction of Structural Supports for Highway Signs, 1961 Edition, 40 psf wind load.

REINFORCING BAR SCHEDULE

Mark	Size	Length	No. Bar	Sketch
F 16	6	22' 5"	12	(1/2)
F 20	8	22' 5"	22	(1/2)
F 30	12	22' 5"	28	(1/2)
F 40	14	22' 5"	20	(1/2)
F 50	18	22' 5"	10	(1/2)
F 60	24	22' 5"	5	(1/2)
F 70	30	22' 5"	2	(1/2)

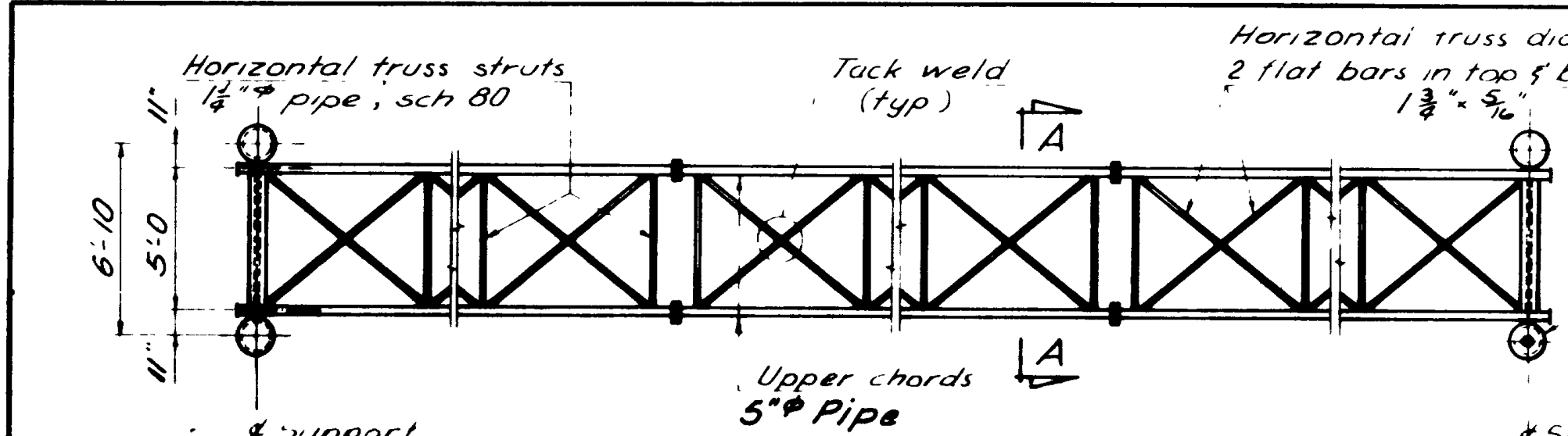


UTAH STATE DEPARTMENT OF HIGHWAYS
SALT LAKE CITY, UTAH
STRUCTURES DIVISION

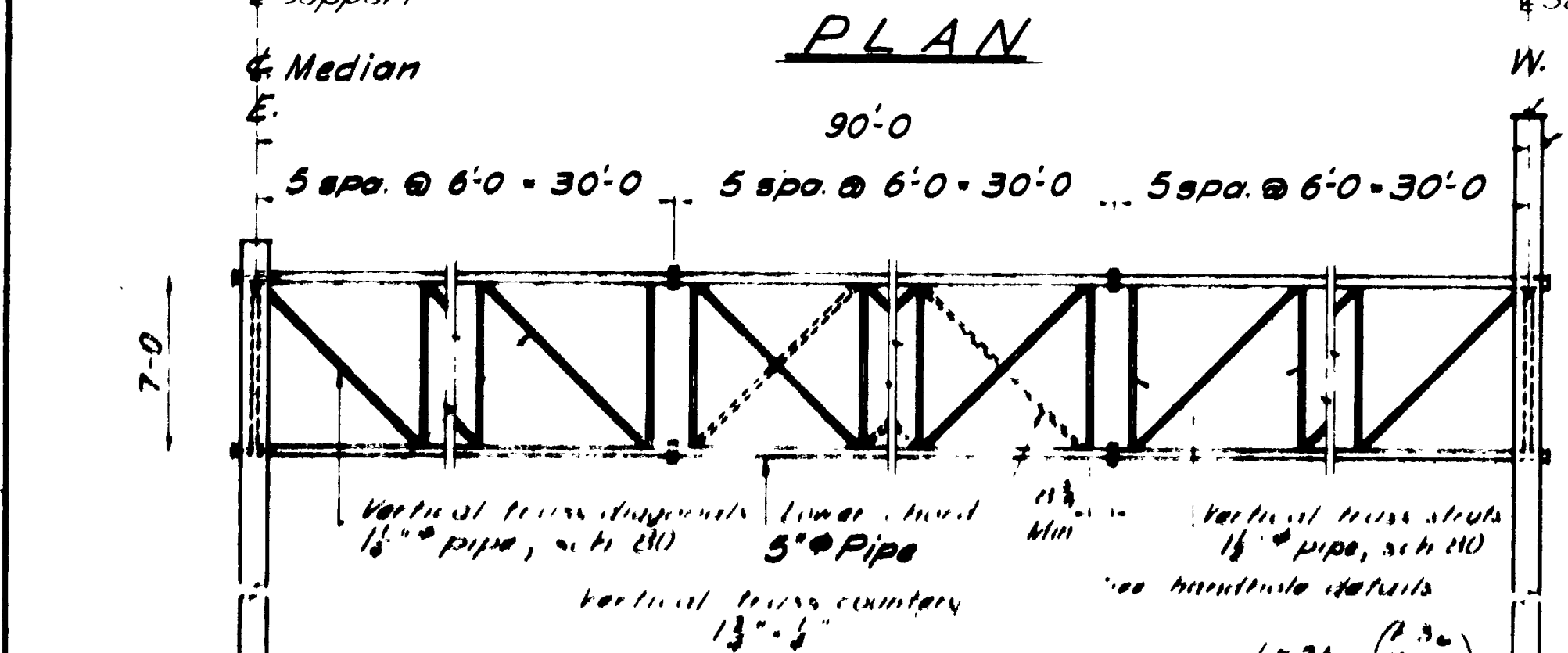
31st STREET TO HOT SPRINGS IN OGDEN

OVERHEAD SIGN STRUCTURE

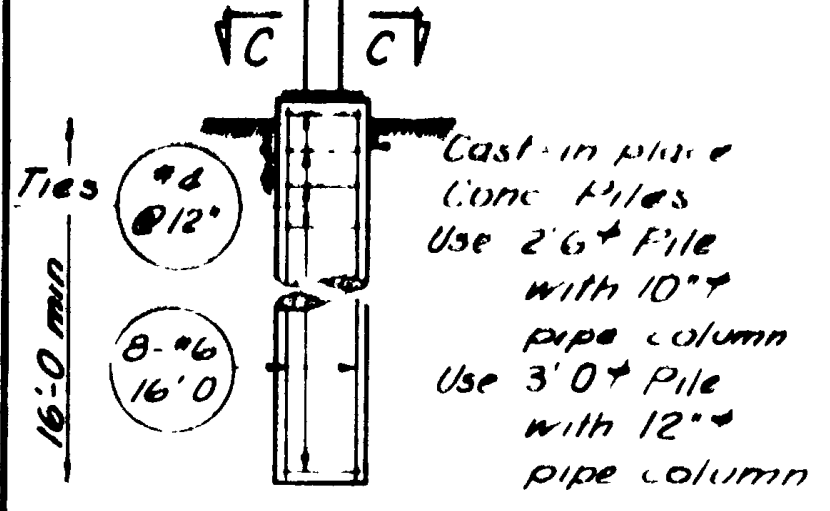
DESIGNED BY B.K.M. 2/16/68 CHECKED BY A.W.S. 2/16/68 UT-G-15-8(23)338
DRAWN BY B.K.M. 2/16/68 REVISION BY A.W.S. 2/16/68 PROJECT NUMBER
ESTIMATED BY [blank] CHECKED BY [blank] DATE
APPROVAL DATE 2/21/68 A. E. Thammara
APPROVED DATE 3/12/68 A. E. Thammara PROJECT NUMBER
1095 + 00NB
WEBER
1 OF 1



PLAN

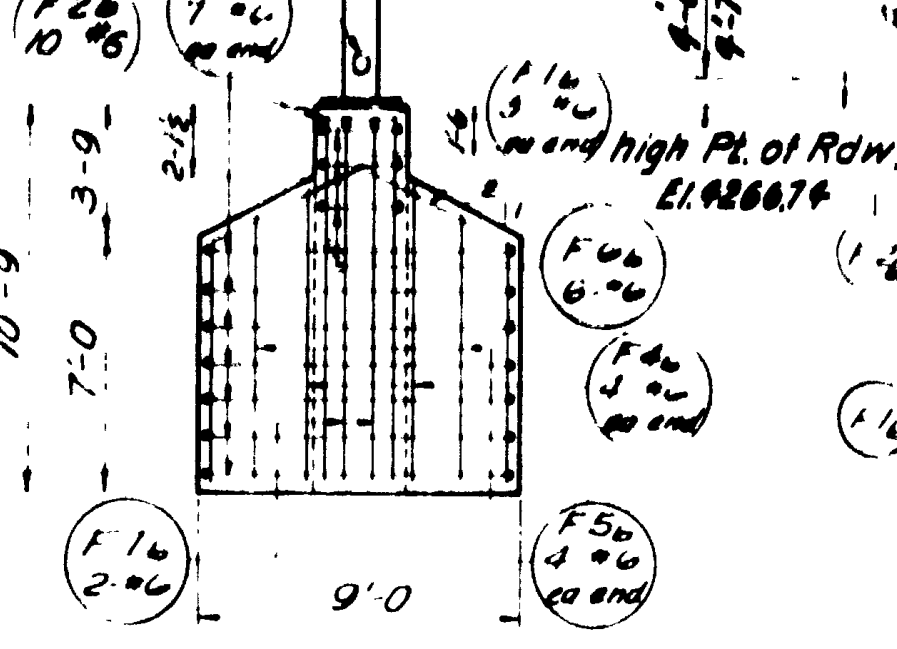


ELEVATION

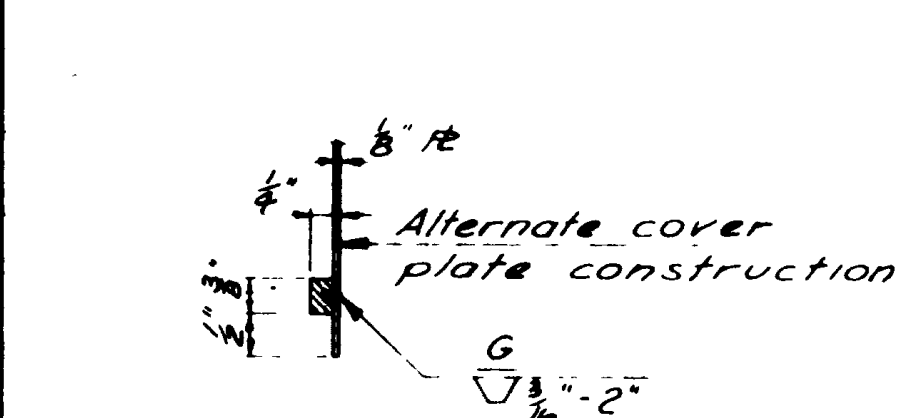


STANDARD FOOTING

SECTION CC

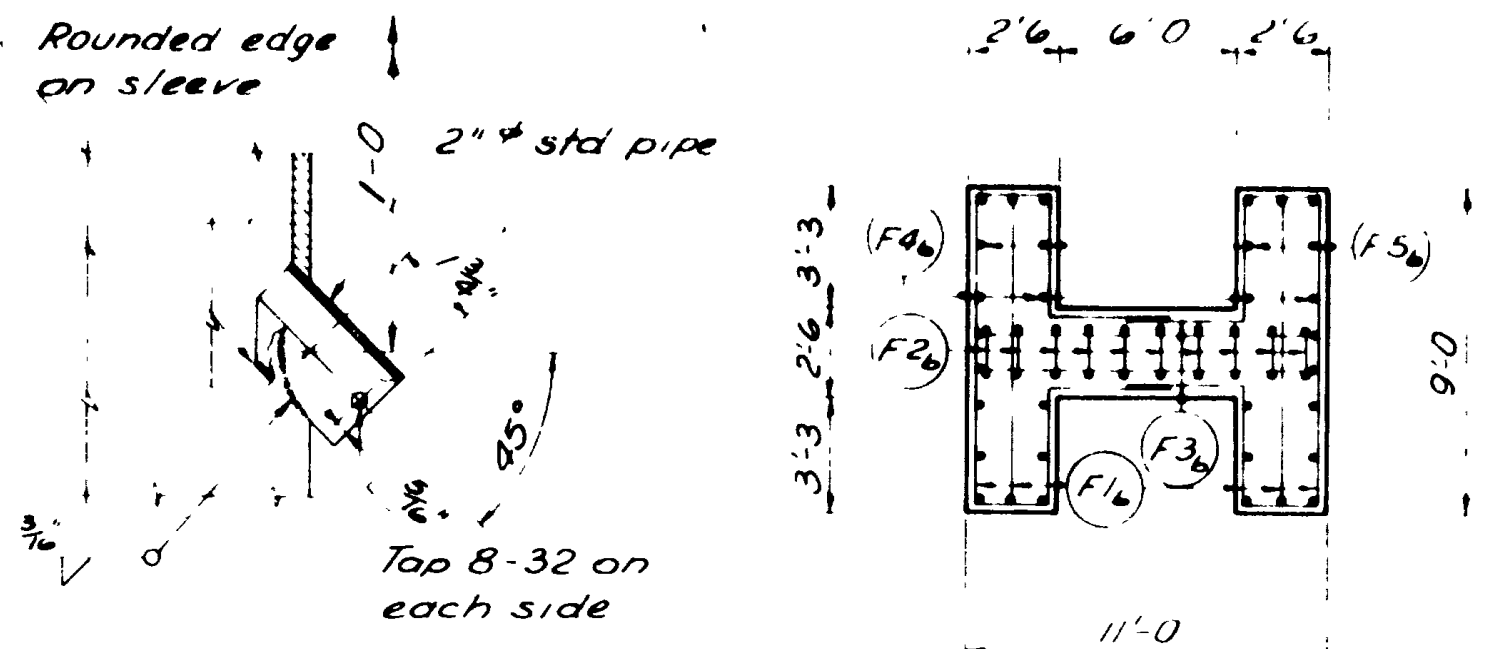


OPTIONAL FOOTING



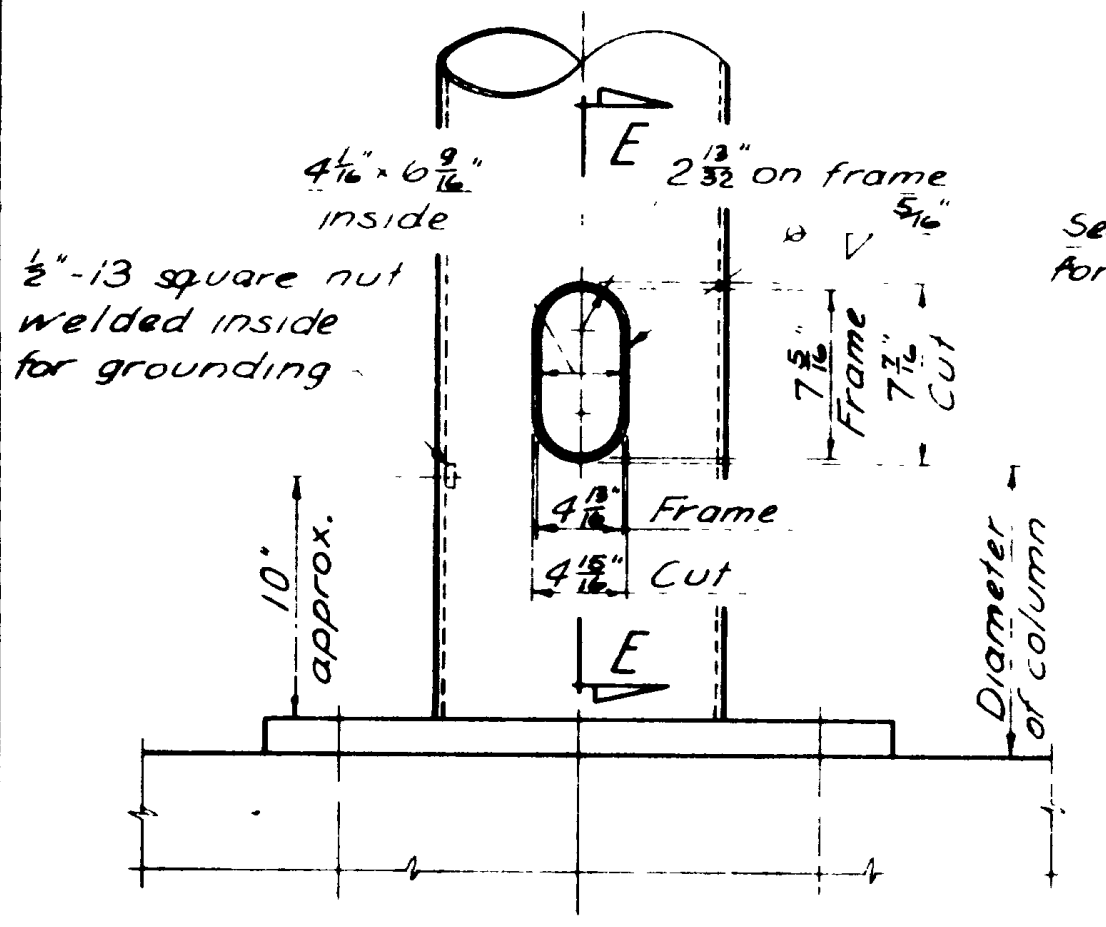
DETAIL F

ANCHOR BOLT DETAIL OF STEEL SLEEVE

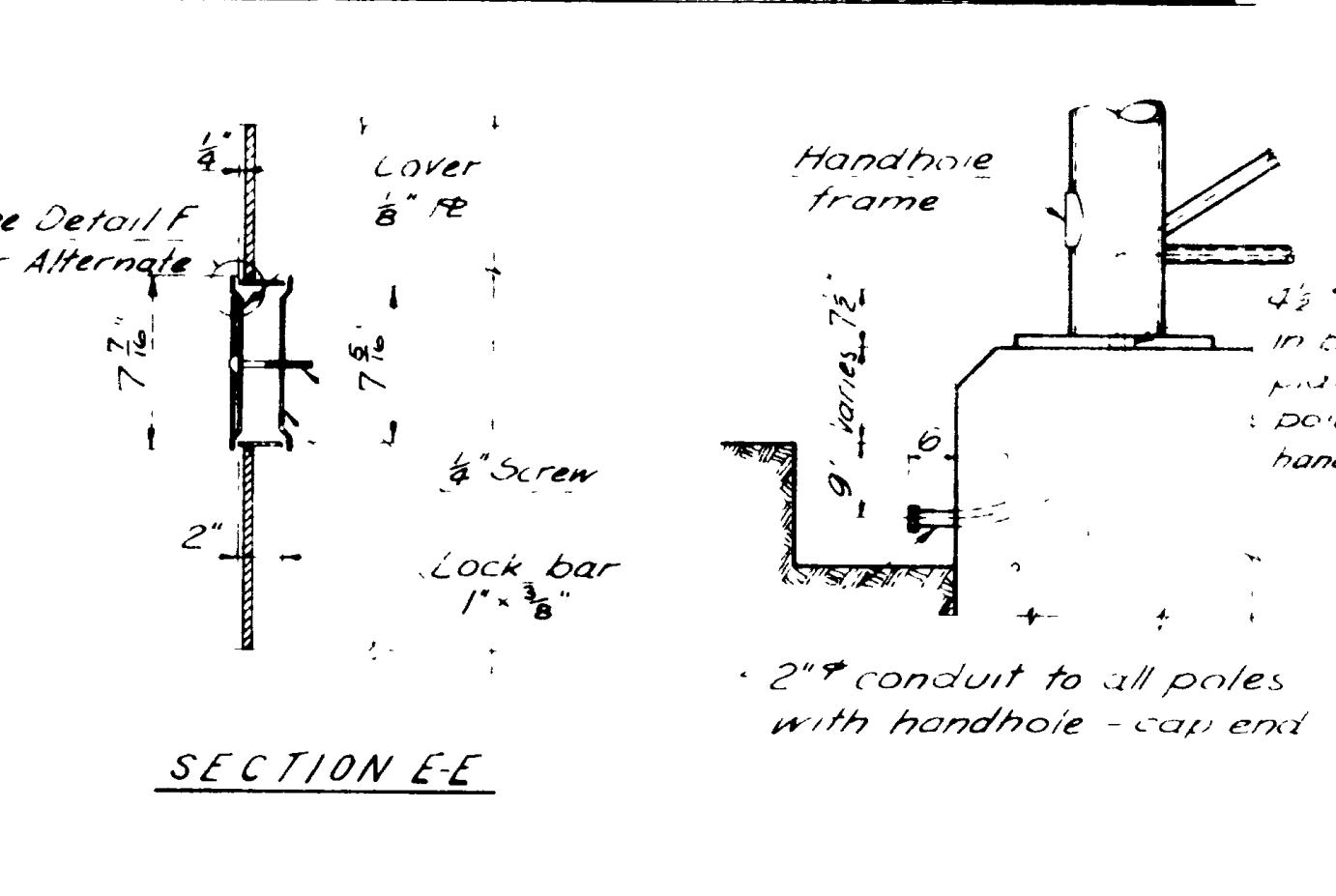


SECTION B-B

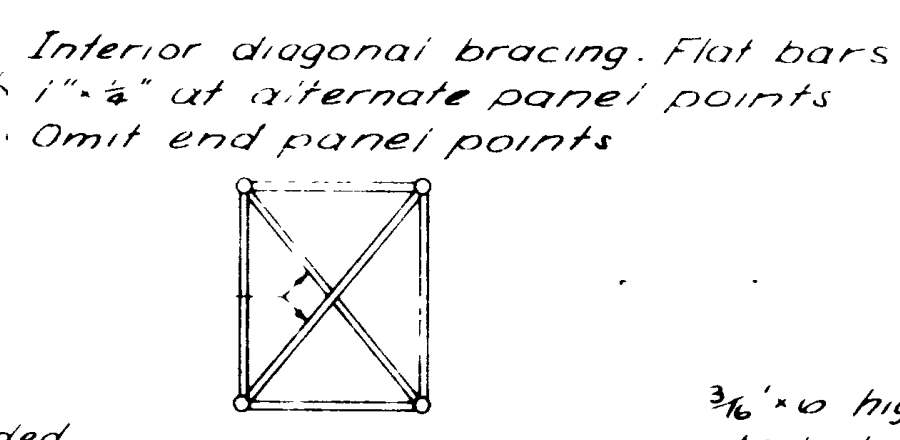
BASE PLATE DETAILS



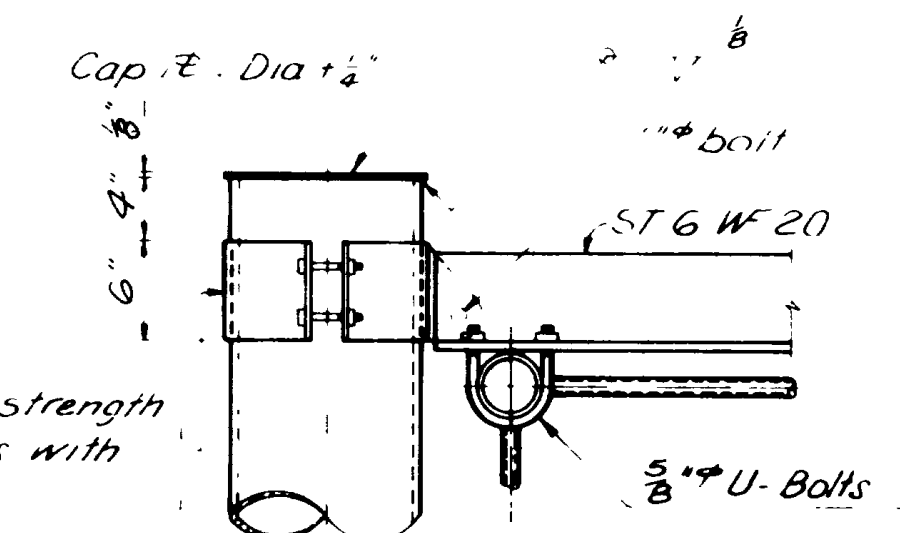
HANDHOLE DETAILS



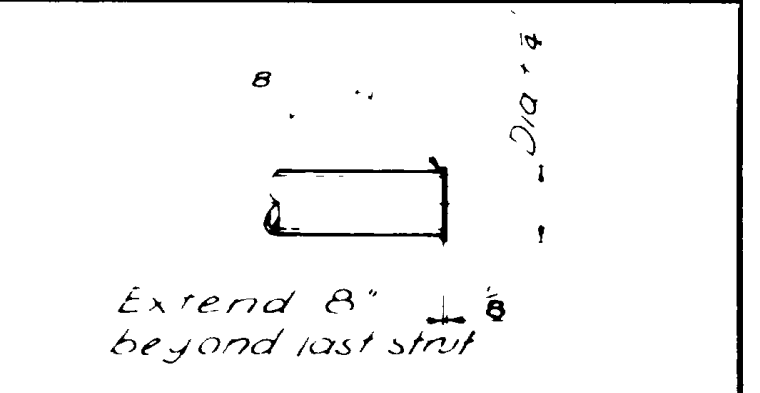
CONDUIT IN FOOTING



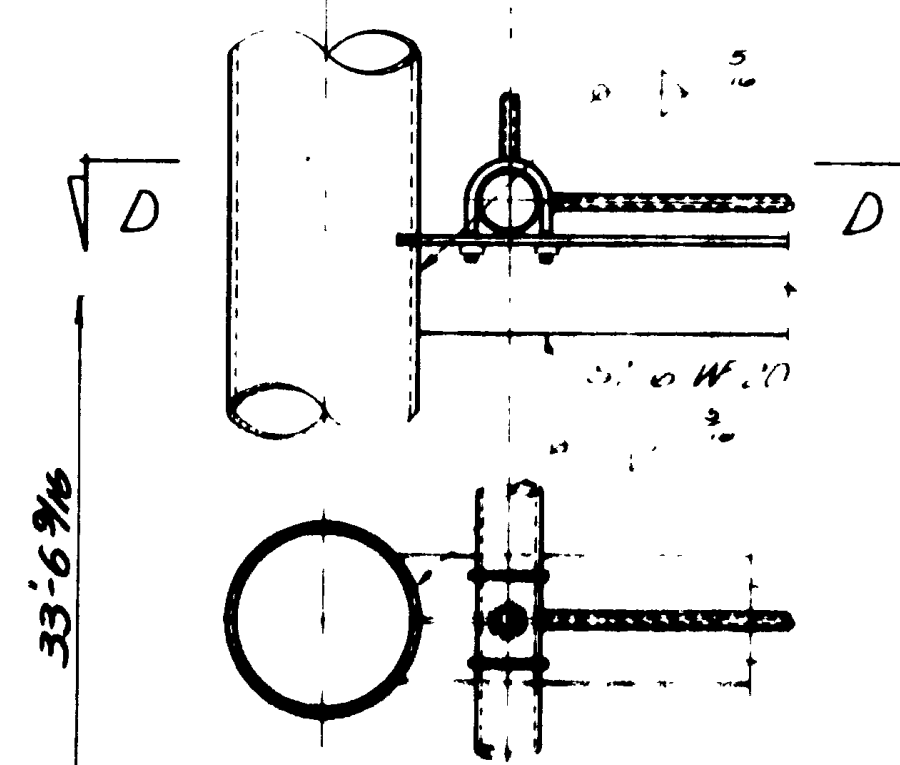
SECTION AA



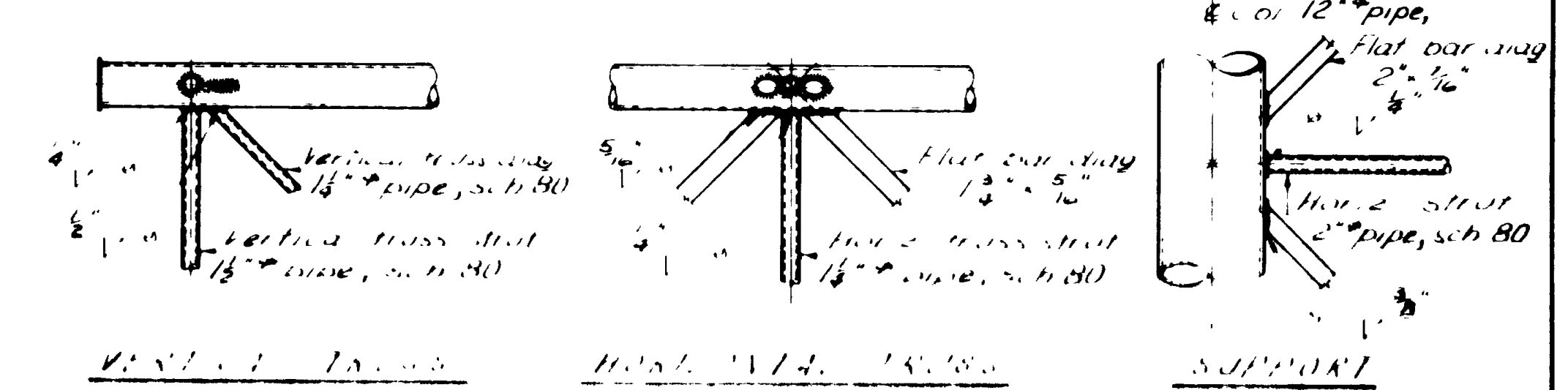
CHORD SPLICE DETAILS



CHORD CAP



END PANEL DETAILS



PANEL POINT DETAILS

GENERAL NOTES

1. Materials, construction and workmanship shall be in accordance with the State of Utah Standard Specifications for Road and Bridge Construction, 1961 Edition, and Supplements thereto which are in effect at the date of request for bids.
2. All reinforcing steel shall be intermediate grade billet steel, conforming with AASHTO designation M 31. Deformations shall conform with AASHTO designation M 137. All dimensions relating to reinforcing steel are to centers of bars.
3. Type II cement required (low alkali).
4. Exposed concrete corners shall be chamfered 3/4" except where noted otherwise.
5. Cover to reinforcing steel shall be 2 inches except where noted otherwise.
6. All structural steel for main members shall be structural carbon steel conforming to AASHTO designation M 183 (ASTM A 36). Pipe members may be A 53 grade B, in lieu of ASTM A 36. Secondary members, diagonals and counters etc. may be ASTM A-107 max. carbon .30, in lieu of ASTM A 36.
7. All structural steel shall receive one shop and one field coat of red lead paint AASHTO designation M 71 or M 72 and two (2) field coats of aluminum paint AASHTO designation M-69. All painting shall be in accordance with the State of Utah Standard Specifications for Road and Bridge Construction.
8. The sign bridge shall be used in conformity with Hardware Technical Manual, 1961 Edition, published by the State of Utah, and the approval of the State of Utah shall be obtained.
9. Design shall conform with AASHTO specifications for the design of concrete and steel structures for highway signs. See also Utah Standard Specifications for Road and Bridge Construction, 1961 Edition, and Supplements thereto.
10. For sign installation details see Draw. No. 16-15-8(23)338.
11. 14 Corn Bolts shall conform to ASTM Specification A-325.

REINFORCING BAR SCHEDULE			
Mark	Size	Length	Qty
F1a	2-#6	9'-0"	2
F2a	2-#6	9'-0"	2
F3a	27-#3	28"	
F4a	7-#10	16"	
F5a	7-#3	16"	
F6a	14-#1	12"	
F7a	6	30'-6"	4

UTAH STATE DEPARTMENT OF HIGHWAYS
SALT LAKE CITY, UTAH
STRUCTURES DIVISION

3154 STREET TO HOT SPRINGS IN OGDEN

OVERHEAD SIGN STRUCTURE

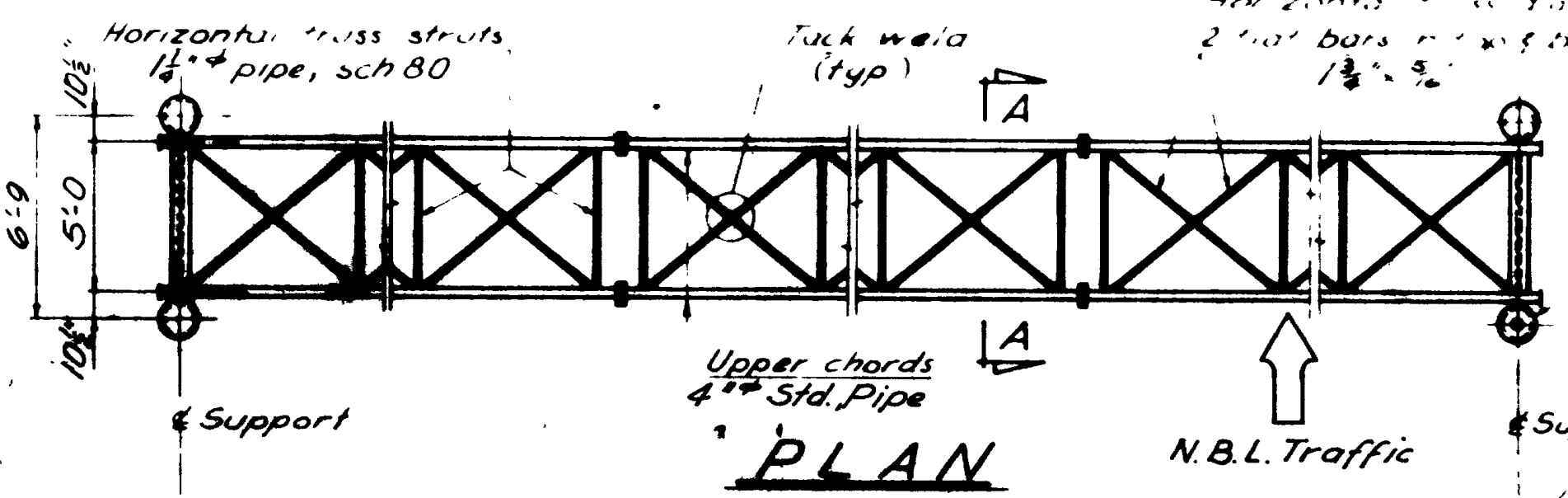
DESIGNED BY B.K.M.2/16/68 CHECKED BY A.M.S.2/14/68
DRAWN BY B.K.M.2/16/68 CHECKED BY A.M.S.2/14/68 PROJECT NUMBER 1176+00 S.B.

APPROVAL 2/21/68 DATE R.P. Olschowski
APPROVED 3/12/68 DATE D.E. Mansour STATION WEBER COUNTY

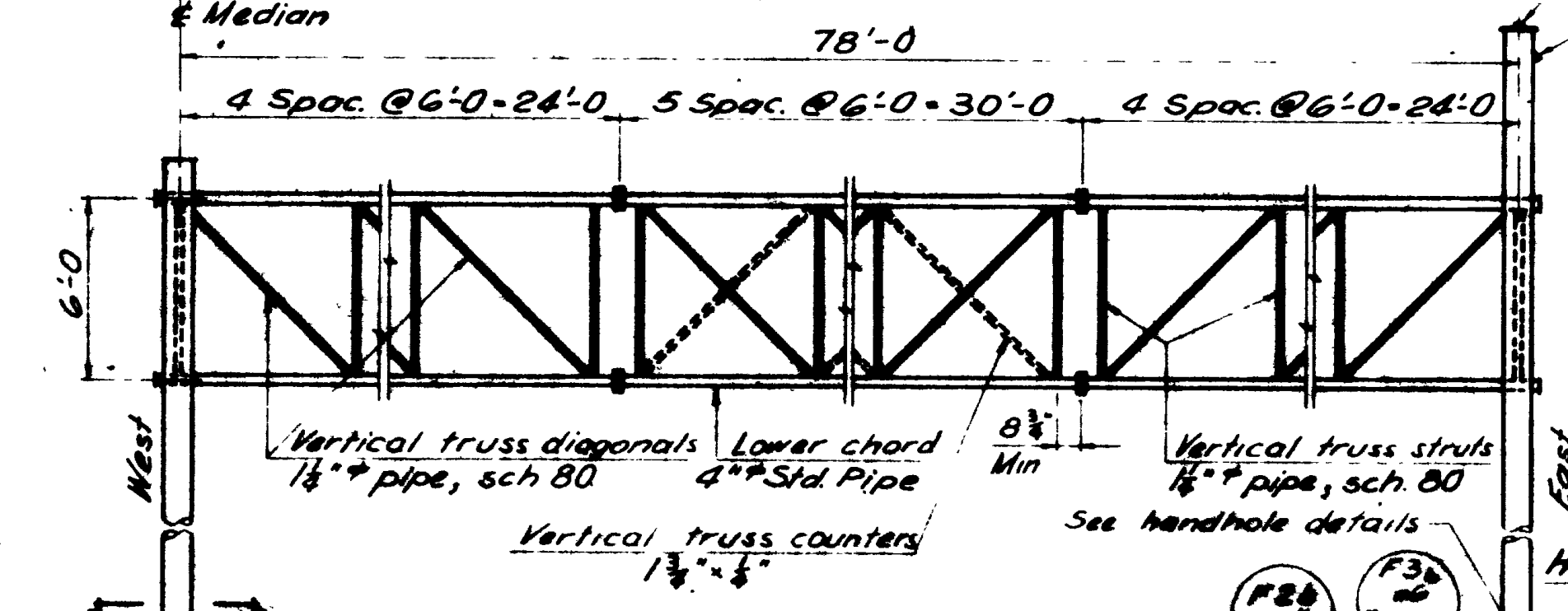
#17-3-29-68 Drwg Ng

REVISIONS

DRG G-136 1 of 1

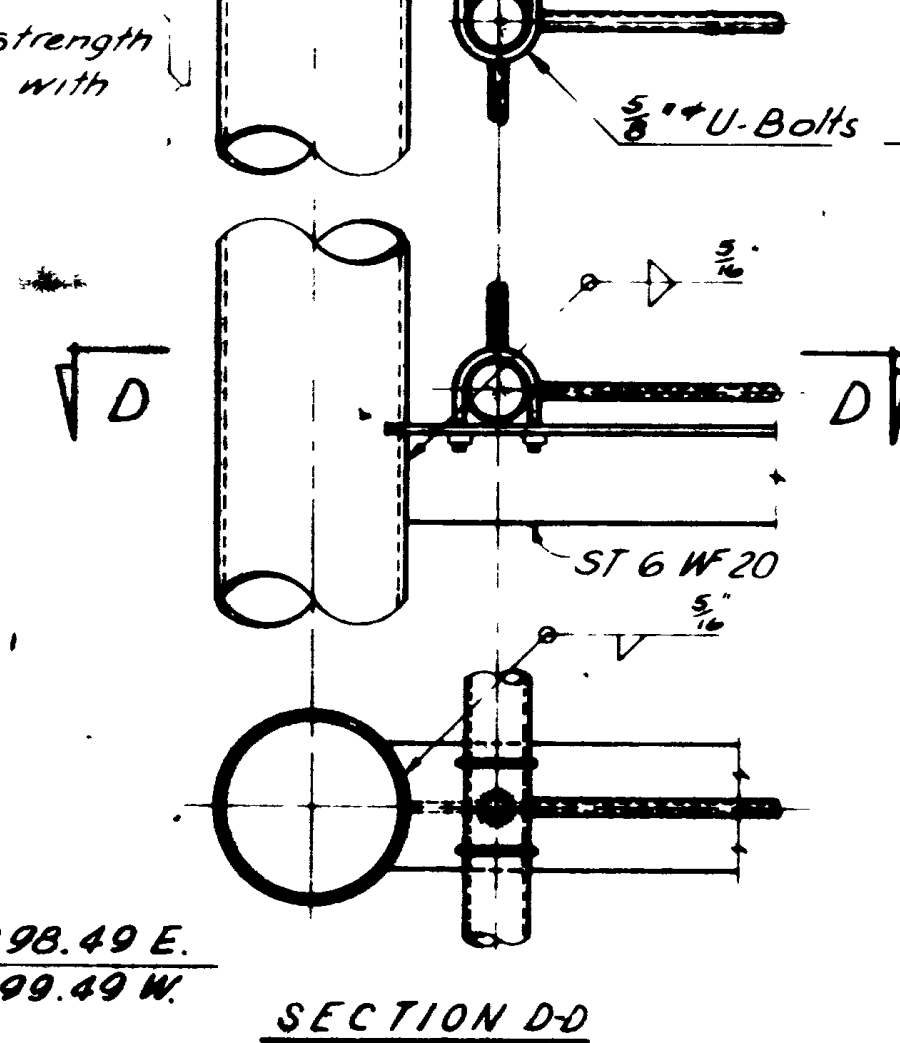


PLAN



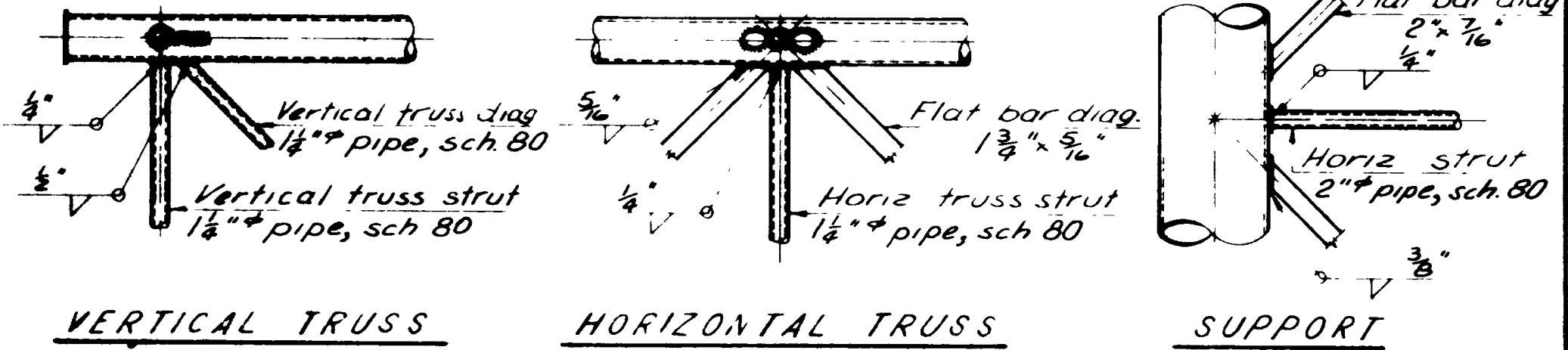
ELEVATION

SECTION A-A



CHORD SPLICE DETAILS

CHORD CAP

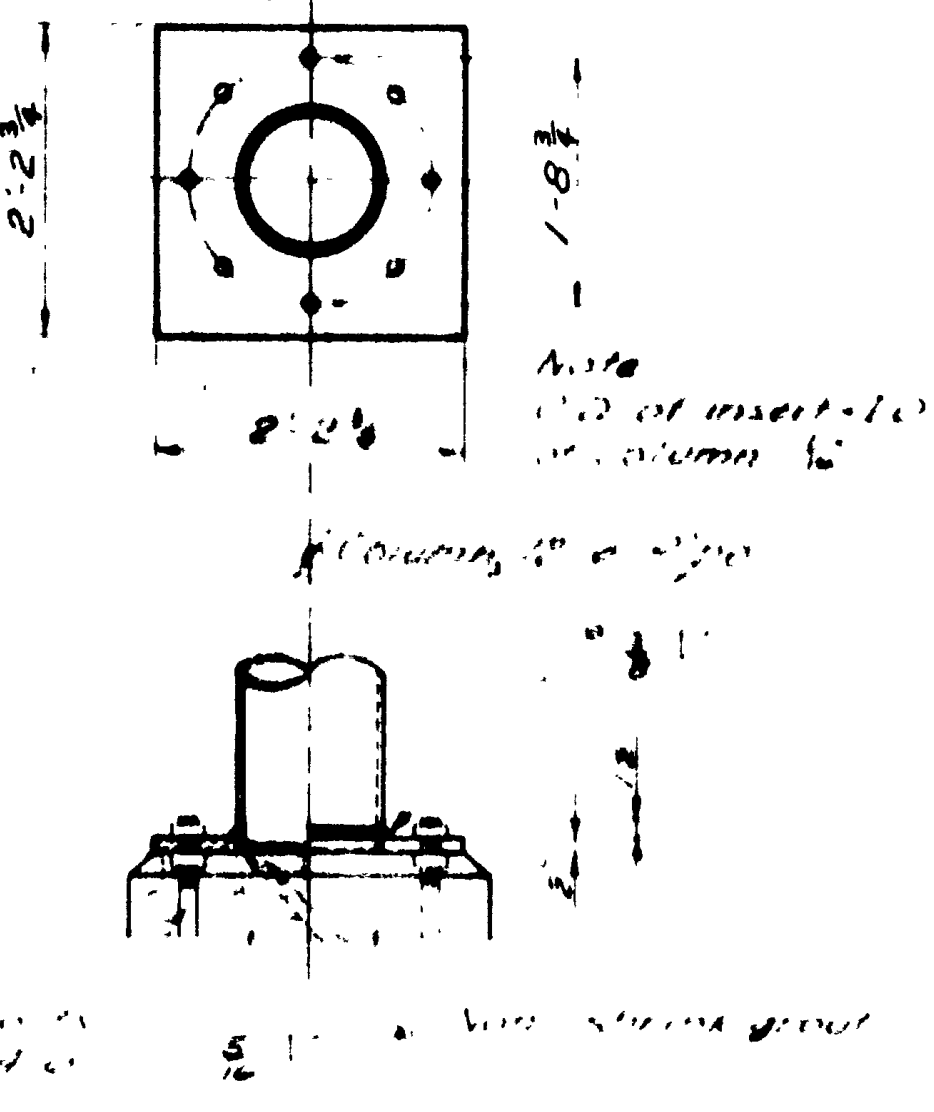


PANEL POINT DETAILS

GENERAL NOTES

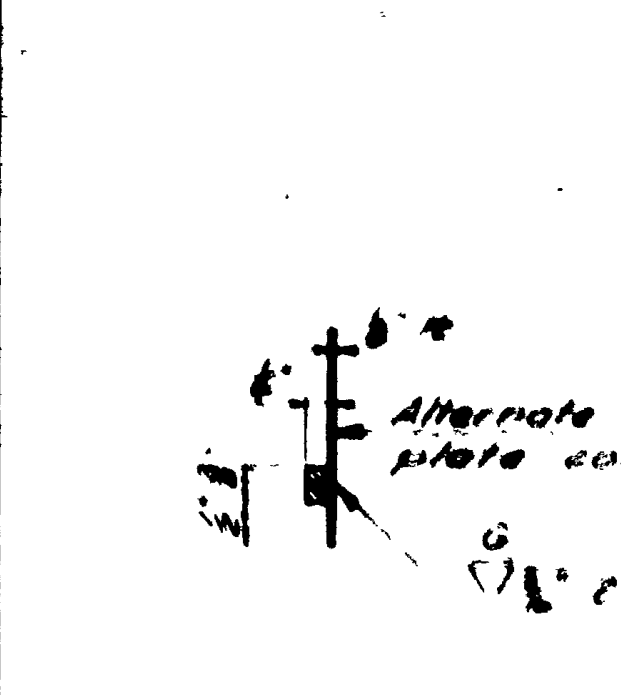
1. Materials, construction and workmanship shall be in accordance with the State of Utah Standard Specifications for Road and Bridge Construction, 1960 Edition, and Supplements thereto which are in effect at the date of request for bids.
2. All reinforcing steel shall be intermediate grade billet steel, conforming with AASHTO designation M-31. Deformations shall conform with AASHTO designation M-137. All dimensions relating to reinforcing steel are to centers of bars.
3. Type II cement required. (low alkali)
4. Exposed concrete corners shall be chamfered 1/4" except where noted otherwise.
5. Cover to reinforcing steel shall be 2 inches except where noted otherwise.
6. All structural steel for main members shall be structural carbon steel conforming to AASHTO designation M-183 (ASTM A-36). Pipe members may be A 53 grade B, in lieu of ASTM A-36. Secondary members, diagonals and counters etc. may be ASTM A-107 max. carbon steel, in lieu of ASTM A-36.
7. All steel shall be in accordance with the State of Utah Standard Specifications for Road and Bridge Construction.
8. The design of this structure is based on highway bridge design as per the Utah Standard Specifications for Road and Bridge Construction. Other conditions of design are indicated on the drawings or the sheet title block.
9. Design is in accordance with AASHTO specifications for the Design & Construction of Structural Supports for Highway Signs, 1961 Edition, slight wind loads.
10. The design of this structure is based on the Utah Standard Specifications for Road and Bridge Construction.
11. All connections shall be in accordance with the State of Utah Standard Specifications for Road and Bridge Construction.
12. All connections shall be in accordance with the State of Utah Standard Specifications for Road and Bridge Construction.
13. All connections shall be in accordance with the State of Utah Standard Specifications for Road and Bridge Construction.
14. Conn. Bolts shall conform to ASTM Specification A 325.

END PANEL DETAILS



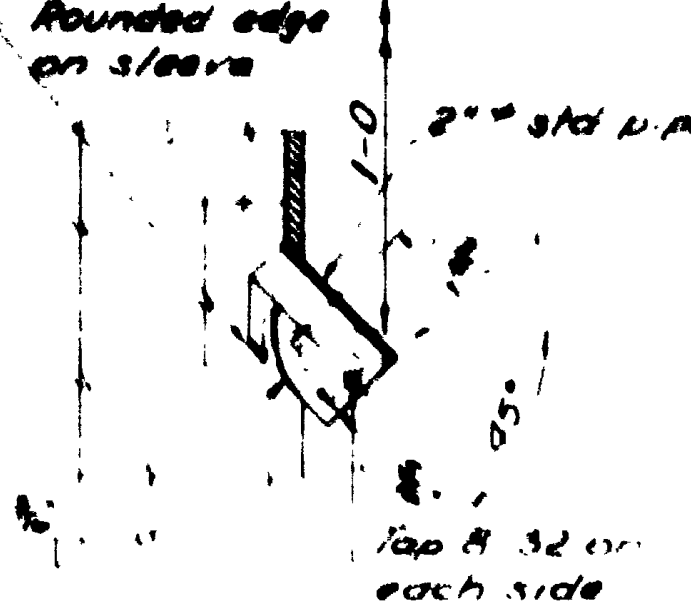
BASE PLATE DETAILS

STANDARD FOOTING

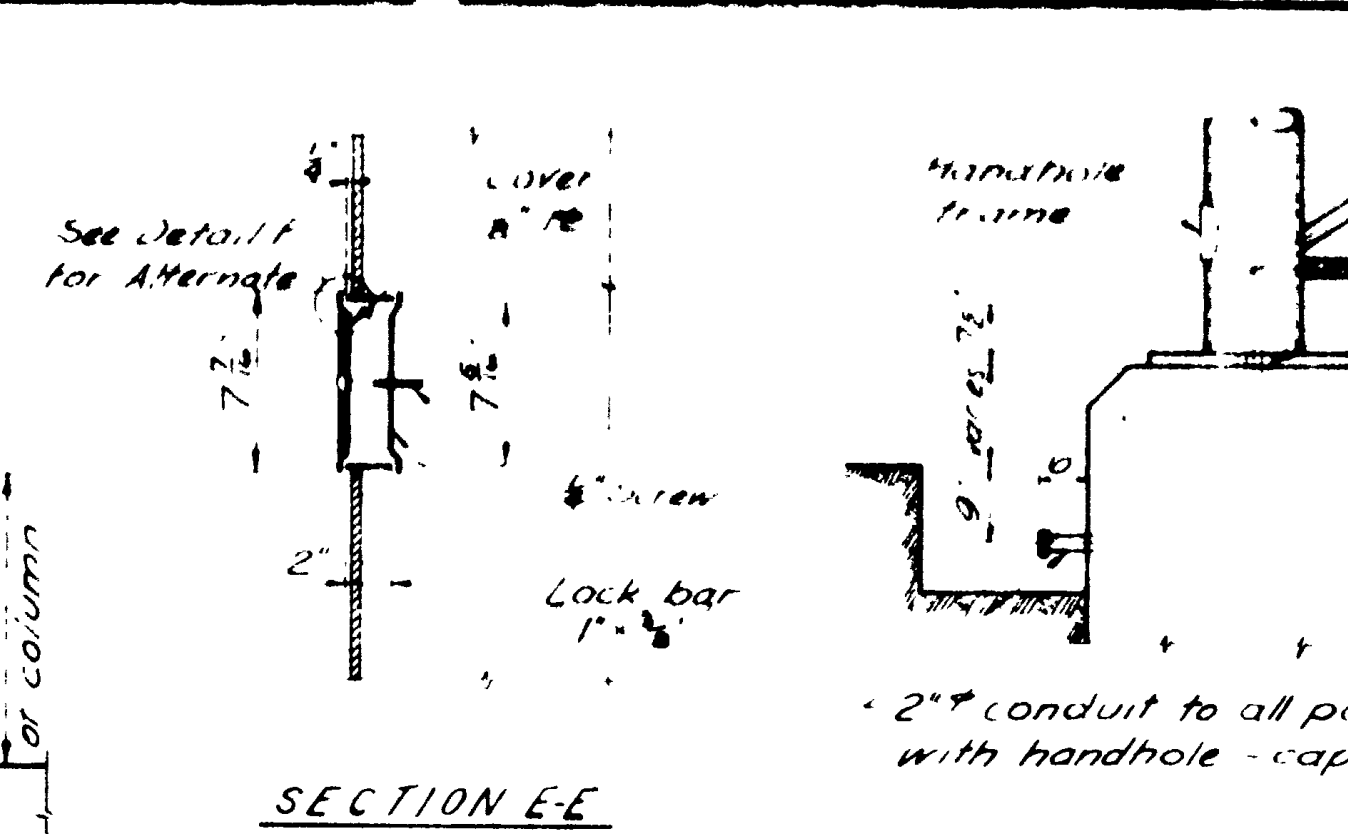


SECTION CC

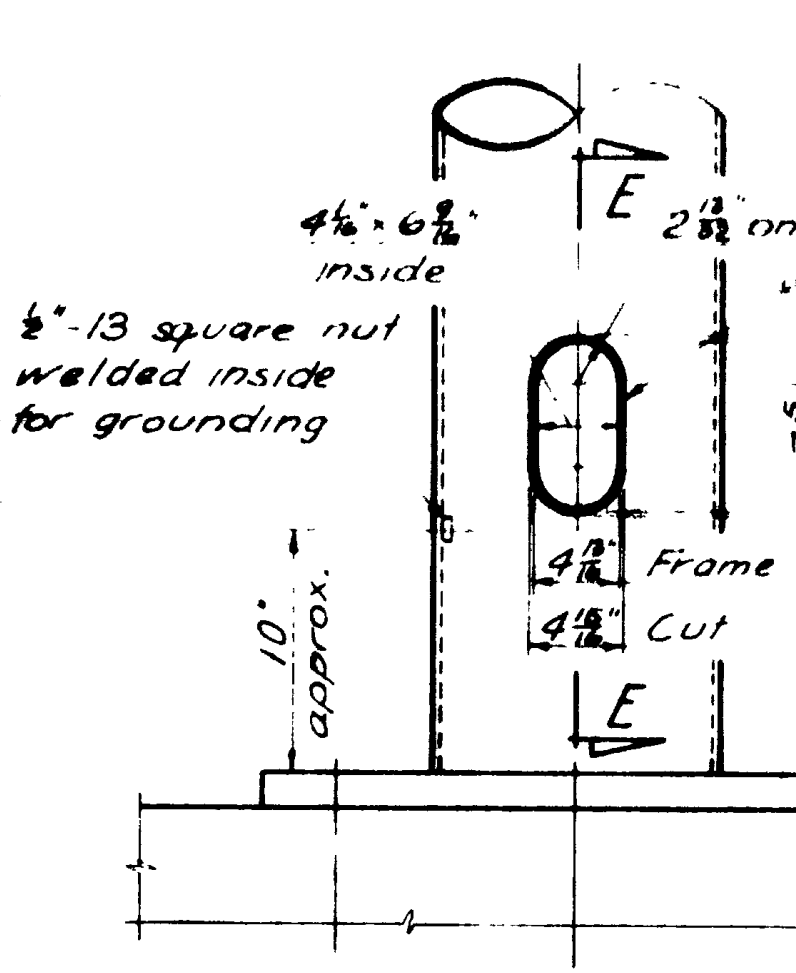
OPTIONAL FOOTING



ANCHOR BOLT STEEL SLEEVE



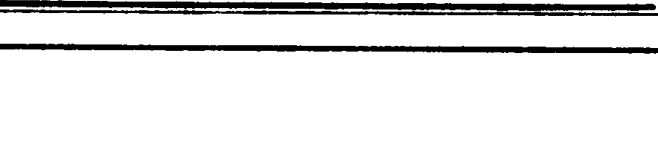
DETAIL F



HANDHOLE DETAILS



CONDUIT IN FOOTING



Mark	Size	Length	No. Bars
F1a	10	20	4
F2a	10	20	4
F3a	10	20	4
F4a	10	20	4
F5a	10	20	4
F6a	10	20	4
F7a	10	20	4

UTAH STATE DEPARTMENT OF HIGHWAYS
STRUCTURES DIVISION
31st STREET TO HOT SPRINGS IN OGDEN

OVERHEAD SIGN STRUCTURE

DESIGNED BY: A. O. ALLEN
CHECKED BY: R. E. MANSAM
DATE: 3/29/68

1138+00 N.B.L.
WEBER

G-137