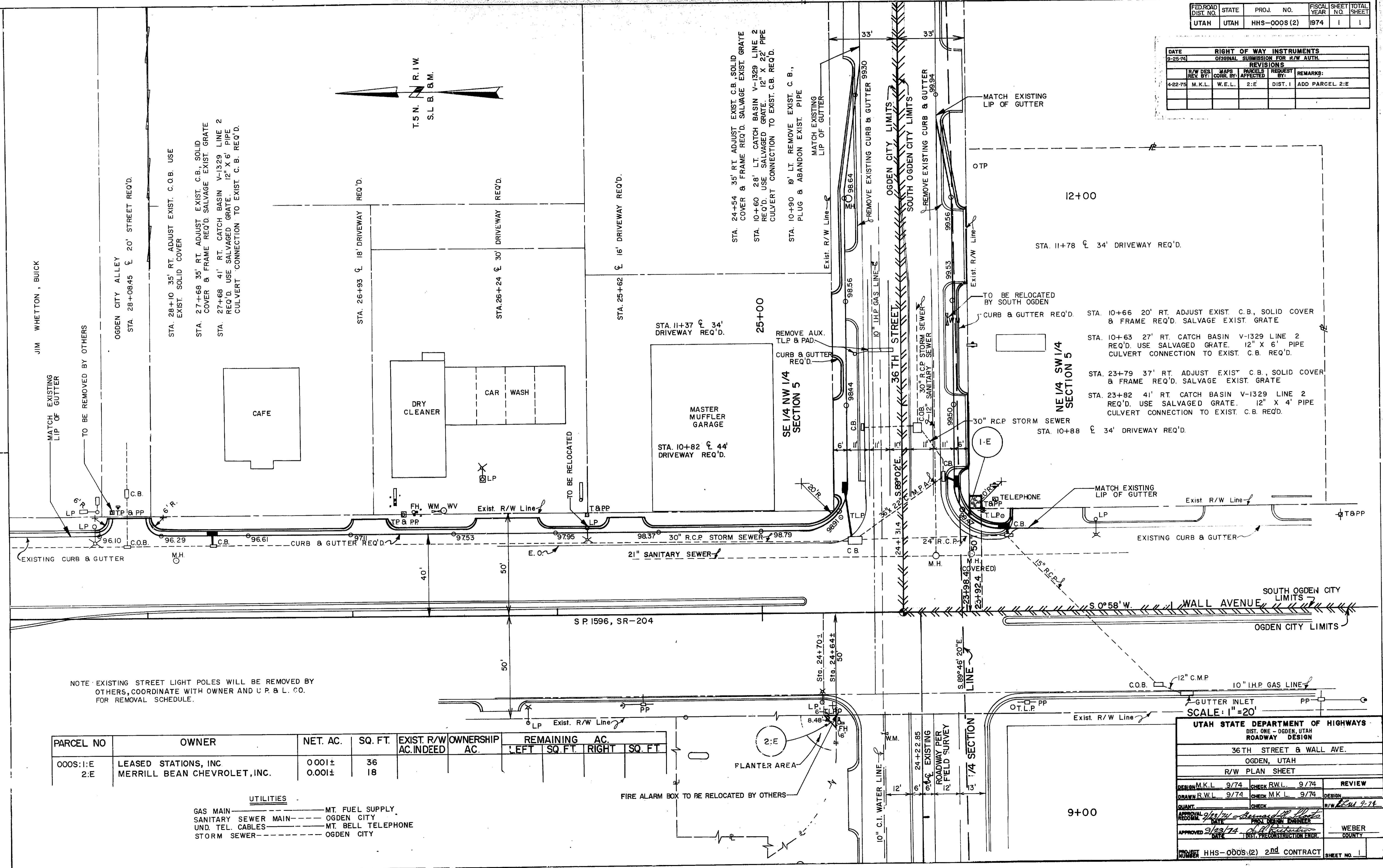
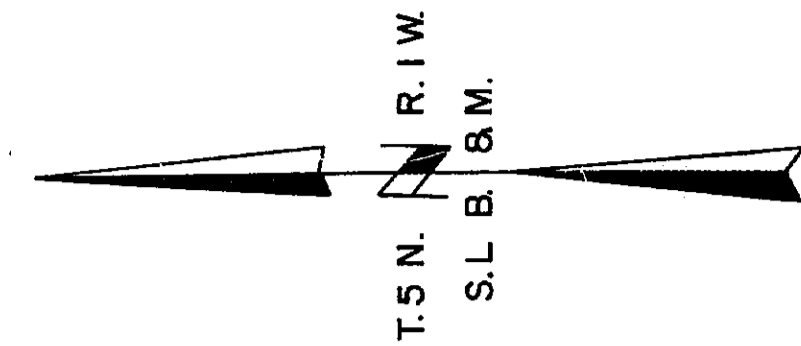


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
UTAH	UTAH	HHS-000S(2)	1974	1	1

DATE		RIGHT OF WAY INSTRUMENTS			
9-25-74		ORIGINAL SUBMISSION FOR R/W AUTH.			
REVISIONS					
R/W DES. REV. BY:	MAPS CORR. BY:	PARCELS AFFECTED	REQUEST BY:		
4-22-75	M.K.L.	W.E.L.	2:E	DIST. I	ADD PARCEL 2:E



STA. 28+10 35' RT. ADJUST EXIST. C.O.B. USE EXIST. SOLID COVER

STA. 27+68 35' RT. ADJUST EXIST. C.B., SOLID COVER & FRAME REQ'D. SALVAGE EXIST. GRATE

STA. 27+68 41' RT. CATCH BASIN V-1329 LINE 2 REQ'D. USE SALVAGED GRATE. 12" X 6' PIPE CULVERT CONNECTION TO EXIST. C.B. REQ'D.

STA. 24+54 35' RT. ADJUST EXIST. C.B., SOLID COVER & FRAME REQ'D. SALVAGE EXIST. GRATE

STA. 10+60 28' LT. CATCH BASIN V-1329 LINE 2 REQ'D. USE SALVAGED GRATE. 12" X 22' PIPE CULVERT CONNECTION TO EXIST. C.B. REQ'D.

STA. 10+90 19' LT. REMOVE EXIST. C.B., PLUG & ABANDON EXIST. PIPE

STA. 10+66 20' RT. ADJUST EXIST. C.B., SOLID COVER & FRAME REQ'D. SALVAGE EXIST. GRATE

STA. 10+63 27' RT. CATCH BASIN V-1329 LINE 2 REQ'D. USE SALVAGED GRATE. 12" X 6' PIPE CULVERT CONNECTION TO EXIST. C.B. REQ'D.

STA. 23+79 37' RT. ADJUST EXIST. C.B., SOLID COVER & FRAME REQ'D. SALVAGE EXIST. GRATE

STA. 23+82 41' RT. CATCH BASIN V-1329 LINE 2 REQ'D. USE SALVAGED GRATE. 12" X 4' PIPE CULVERT CONNECTION TO EXIST. C.B. REQ'D.

NOTE EXISTING STREET LIGHT POLES WILL BE REMOVED BY OTHERS, COORDINATE WITH OWNER AND U.P. & L.C.O. FOR REMOVAL SCHEDULE.

PARCEL NO	OWNER	NET. AC.	SQ. FT.	EXIST. R/W AC. INDEED	OWNERSHIP AC.	REMAINING AC.			
						LEFT	SQ. FT.	RIGHT	SQ. FT.
000S:1:E	LEASED STATIONS, INC	0.001±	36						
2:E	MERRILL BEAN CHEVROLET, INC.	0.001±	18						

UTILITIES

GAS MAIN ————— MT. FUEL SUPPLY

SANITARY SEWER MAIN ——— OGDEN CITY

UND. TEL. CABLES ———— MT. BELL TELEPHONE

STORM SEWER ————— OGDEN CITY

UTAH STATE DEPARTMENT OF HIGHWAYS
DIST. ONE - OGDEN, UTAH
ROADWAY DESIGN

36TH STREET & WALL AVE.
OGDEN, UTAH

R/W PLAN SHEET

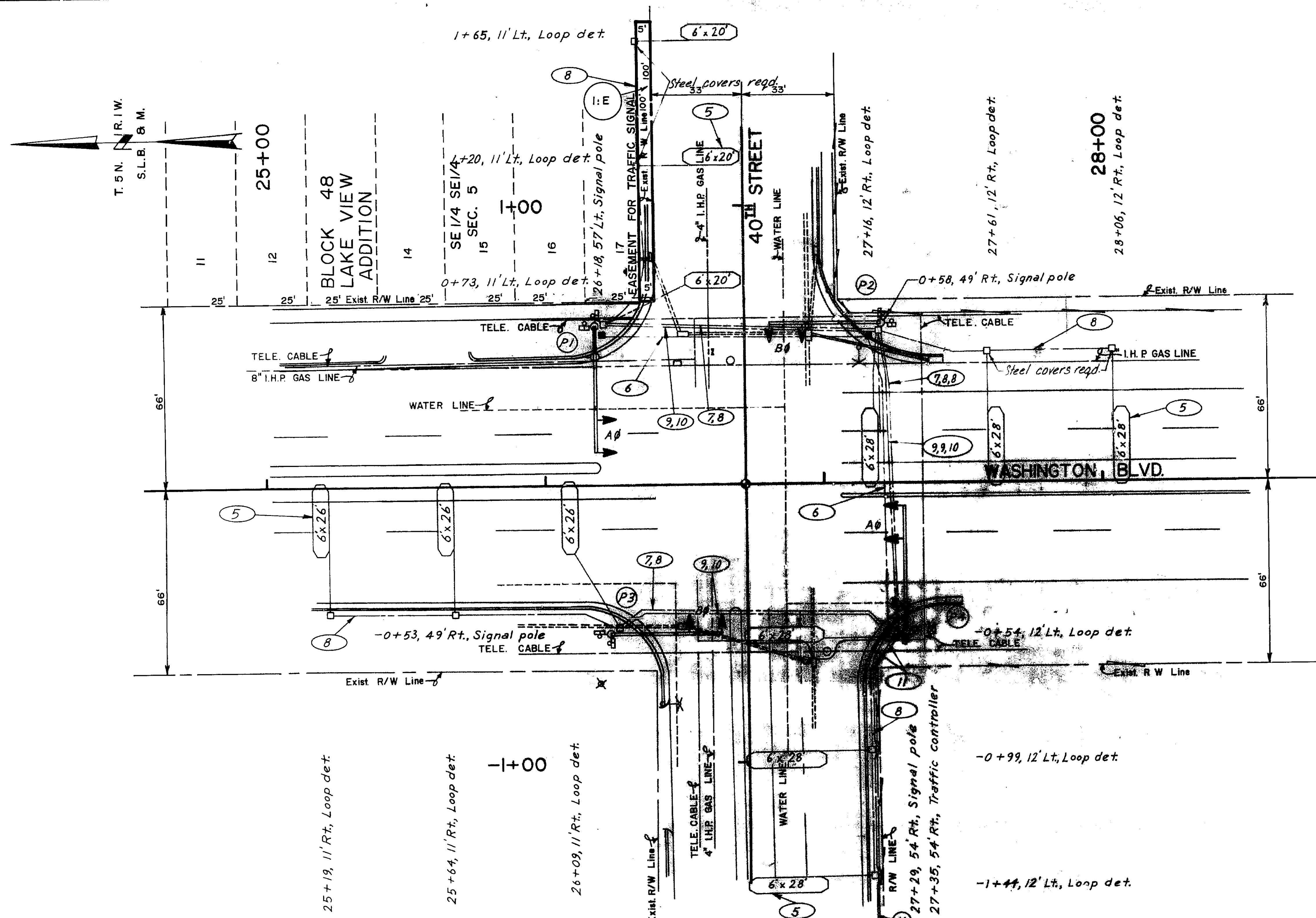
DESIGN M.K.L. 9/74	CHECK R.W.L. 9/74	REVIEW
DRAWN R.W.L. 9/74	CHECK M.K.L. 9/74	DESIGN
APPROVAL DATE 9/23/74	PROJ. DESIGN ENGINEER	R/W PLAN SHEET
APPROVAL DATE 9/23/74	DIST. PRECONSTRUCTION ENGR.	WEBER COUNTY

PROJECT NUMBER HHS-000S(2) 2nd CONTRACT SHEET NO. 1

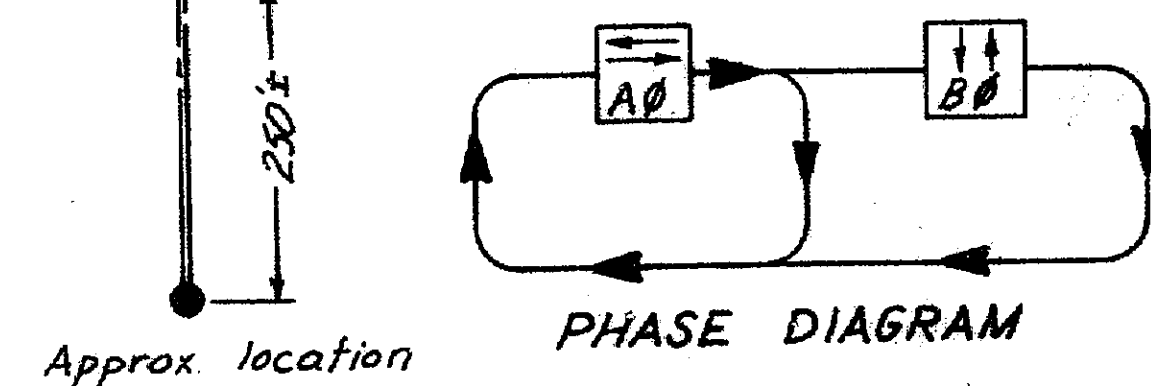
Lead Ref: 109
Sheet: 1
Sheet Type:

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
	UTAH	HHS-000S(2)	1	

DATE 11-19-74				
RIGHT OF WAY INSTRUMENTS				
ORIGINAL SUBMISSION FOR R/W AUTH.				
REVISIONS				
R/W DES. REV. BY:	MAPS CORR. BY:	PARCELS AFFECTED	REQUEST BY:	REMARKS:



PARCEL NO	OWNER	NET AC.	SQ. FT.	EXIST. R/W AC IN DEED	OWNERSHIP AC.	REMAINING AC. LEFT	REMAINING AC. RIGHT
000S:1:E	CORP. OF THE PRESIDENT OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, A UTAH CORP. SALE	0.012±					



SCALE 1" = 20'

UTAH STATE DEPARTMENT OF HIGHWAYS DIST. ONE-OGDEN, UT. ROADWAY DESIGN		
40TH ST. & WASHINGTON BLVD. OGDEN, UTAH. R/W PLANS		
DESIGN B.H.S. 11-74	CHECK L.M.B. 11-74	REVIEW
DRAWN F.S. 11-74	CHECK B.H.S. 11-74	DESIGN
QUANT.	CHECK	R/W 11-74
APPROVAL 11-74	DATE 11-74	PROJ. DESIGN ENGINEER
APPROVED 11-74	DATE 11-74	DIST. PRECONSTRUCTION ENGR.
PROJECT NUMBER HHS-000S(2)		SHEET NO. 1

Eng. Ref. Print.
 Sheet 1 of 1
 Sheet 1 of 1

STATE OF UTAH STATE ROAD COMMISSION

PLANS OF PROPOSED STATE ROAD

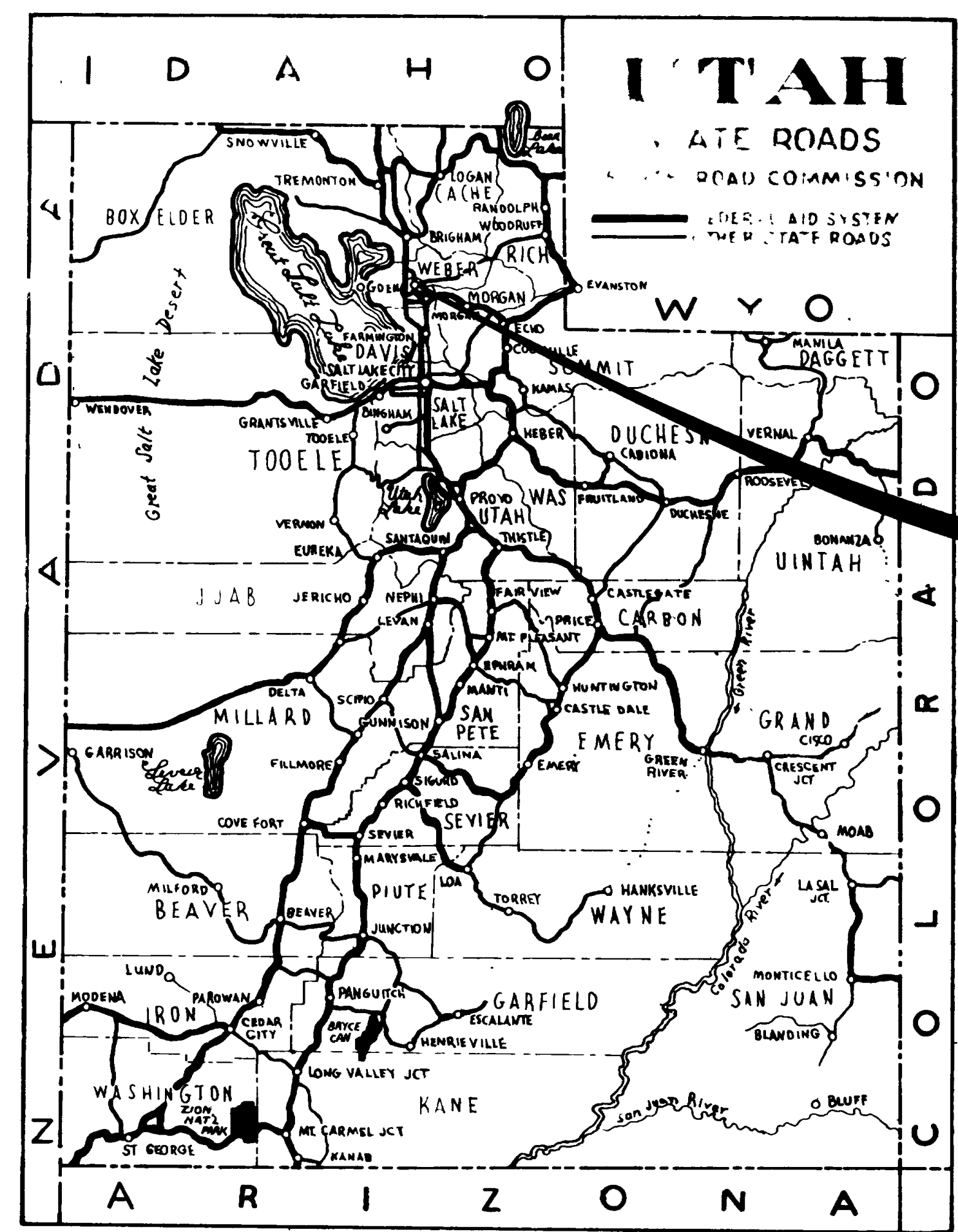
FEDERAL AID PROJECT

HHS-000S(2)

WASHINGTON BLVD. & 22nd STREET-OGDEN
 WASHINGTON BLVD.- 43rd SOUTH TO RIVERDALE RD-OGDEN
 HARRISON BLVD. - 30th STREET TO 12th STREET-OGDEN
 MONROE BLVD. & 30th STREET - OGDEN
 QUINCY AVE. & 36th STREET-OGDEN

TRAFFIC SIGNALS - CHANNELIZATION - DRAINAGE - SAFETY MODIFICATIONS

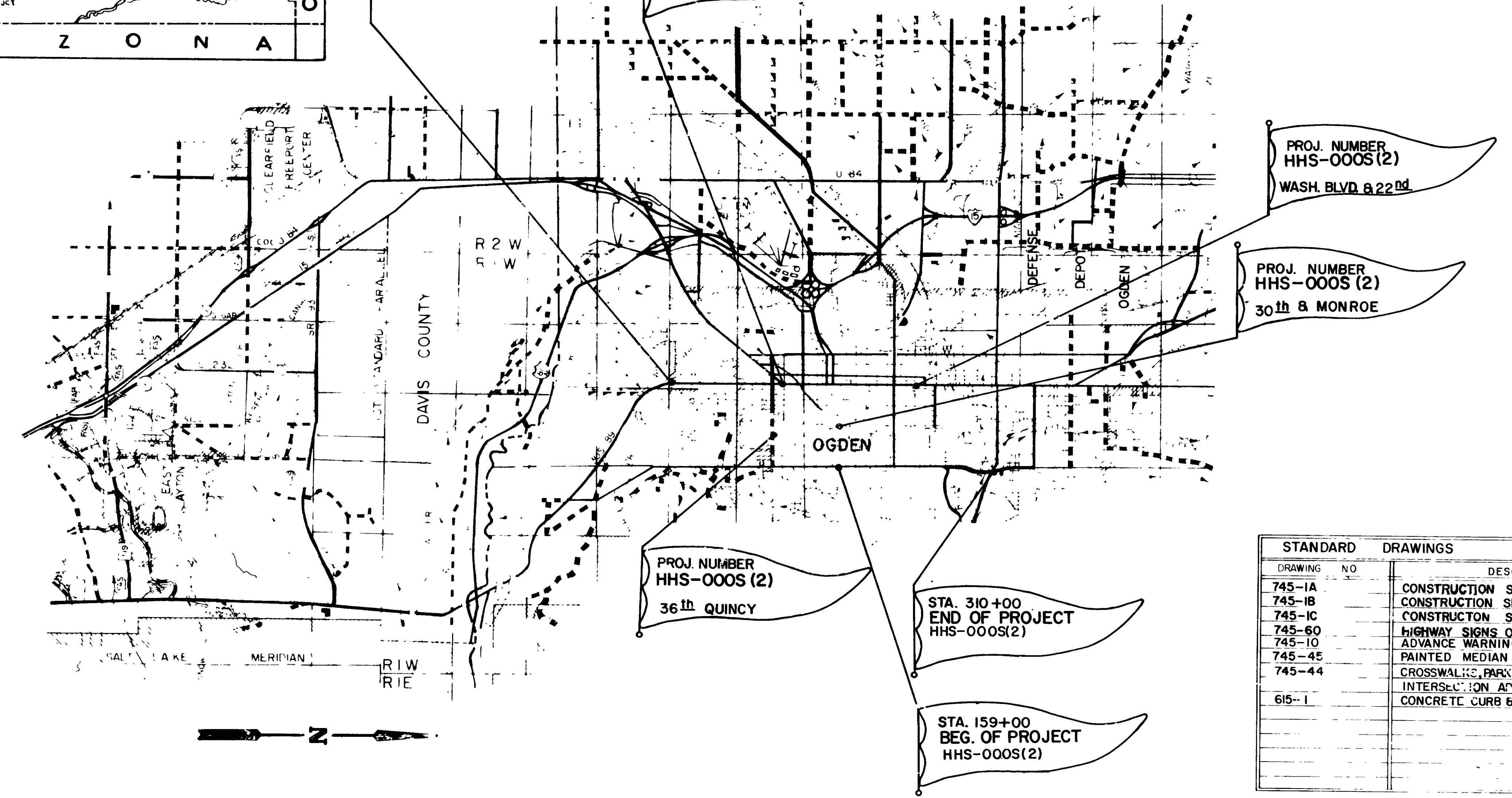
AS CONSTRUCTED



INDEX TO SHEETS

DRAWING NO.	SHEET NO.	DESCRIPTION
	1	TITLE SHEET
	2	TYPICAL CROSS SECTION SHEET
	3 & 3A	SUMMARY SHEETS
	4-8	PLAN SHEET - 22 nd STREET & WASHINGTON BLVD.
	5	PLAN SHEET - 36 th STREET & WASHINGTON BLVD.
	6	PLAN SHEET - 40 th STREET & WASHINGTON BLVD.
	7	PLAN SHEET - 43 rd STREET & WASHINGTON BLVD.
	8	PLAN SHEET - 36 th STREET & QUINCY
	9-10	CHANNELIZATION SHEETS 40 th TO 43 rd STREET TRAFFIC SIGNALS
S-61	1	SUMMARY & SCHEDULE SHEET
	2-8	SITUATION PLAN
	9-10	SUMMARY & SCHEDULE SHEET
	11-19	SITUATION PLAN
	20	MAST ARM SIGNAL POLE
	21	LIGHT POLE EXTENSION DETAIL
	22	SIGNAL HEAD DETAILS
	23	PEDESTRIAN SIGNAL ASSEMBLY DETAIL
	24	DETECTOR DETAIL
	25	JUNCTION BOX DETAIL
	26	CONTROLLER BASE JUNCTION BOX
	27	TYPE "M" CONTROL CABINET
	28	F- CONTROLLER CABINET BASE DETAIL
	29	MISC. DETAILS
	30	POWER SOURCE DETAILS
	31	POST MOUNTED SIGNAL POLE

DWG. NO.	NO. OF SHTS.	DESCRIPTION
V-988	1	STANDARD SOLID COVER & GRATING
V-1329	1	STANDARD CATCH BASIN



STA. 80+00
BEG. OF PROJECT
HHS-000S(2)

STA. 34+06.93
END OF PROJECT
HHS-000S(2)

PROJ. NUMBER
HHS-000S(2)
WASH. BLVD & 22nd

PROJ. NUMBER
HHS-000S(2)
30th & MONROE

PROJ. NUMBER
HHS-000S(2)
36th QUINCY

STA. 310+00
END OF PROJECT
HHS-000S(2)

STA. 159+00
BEG. OF PROJECT
HHS-000S(2)

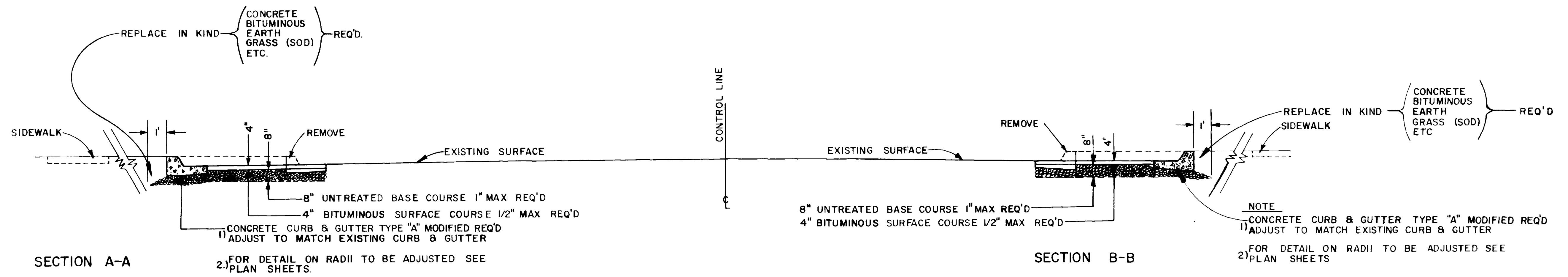
DRAWING NO.	DESCRIPTION	DATE
745-1A	CONSTRUCTION SIGNING	6-13-72
745-1B	CONSTRUCTION SIGNING	6-15-73
745-1C	CONSTRUCTION SIGNING	4-13-73
745-60	HIGHWAY SIGNS OTHER THAN FREEWAYS	6-1-71
745-10	ADVANCE WARNING DEVICES	10-5-71
745-45	PAINTED MEDIAN DETAILS	6-6-74
745-44	CROSSWALKS, PARKING AND INTERSECTION APPROACHES	6-6-74
615-1	CONCRETE CURB & GUTTER	10-15-70

UTAH STATE DEPARTMENT OF HIGHWAYS
 RECOMMENDED FOR APPROVAL *Nov* 1974
William W. McEwen
 CHIEF, ROADWAY DESIGN DIVISION

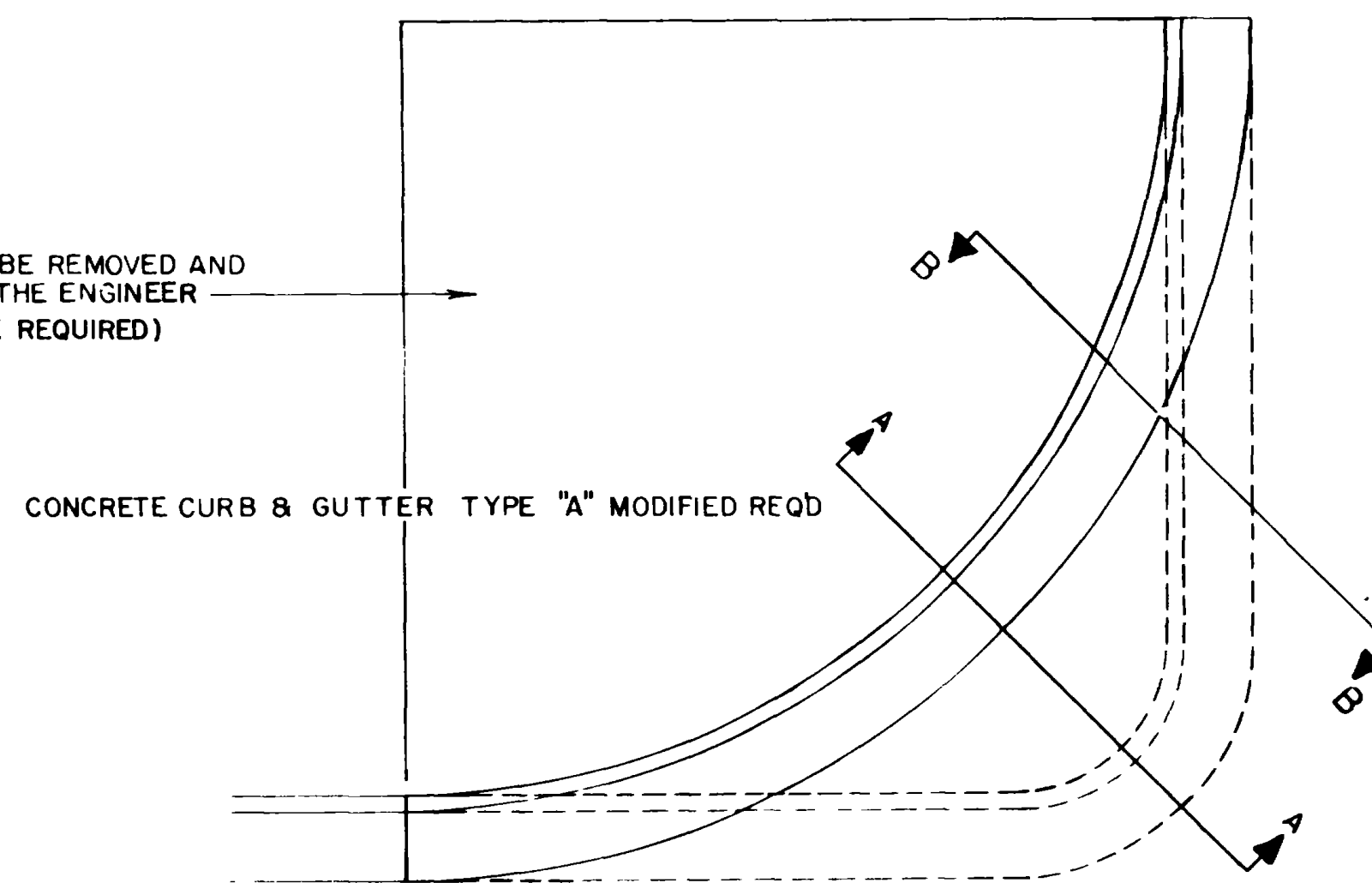
APPROVED *Nov* 1974
R. Jones
 STATE HIGHWAY ENGINEER

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 APPROVED
 DIVISION ENGINEER *JAT*

TYPICAL CROSS SECTION

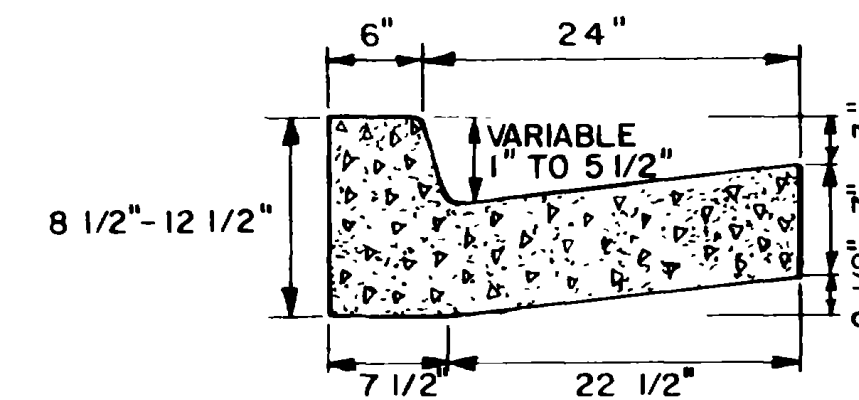


SIDEWALK IN THIS AREA TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER (CONCRETE SAWING MAY BE REQUIRED)



TYPICAL FOR ALL CORNERS

NOTE: BACK OF CURB & GUTTER VARIES FROM 8 1/2" TO 12 1/2" AS NEEDED OR AS DIRECTED BY THE PROJ ENGINEER



CONCRETE CURB & GUTTER TYPE "A" MODIFIED

REVISIONS

NO	BY	DATE	TYPE	REMARKS
REVISIONS				

UTAH STATE DEPARTMENT OF HIGHWAYS DIST. ONE - OGDEN, UTAH ROADWAY DESIGN				
VARIOUS INTERSECTIONS IN OGDEN TYPICAL SECTIONS				
DESIGN	B.H.S. 11/73	CHECK	B.P.W. 11/73	REVIEW
DRAWN	B.P.W. 11/73	CHECK	B.H.S. 11/73	DESIGN 412
QUANT		CHECK		R/W
APPROVAL	1-8-74	DATE	Bernard H. Hoops	PROJ. DESIGN ENGINEER
APPROVED	1-8-74	DATE	A. B. Johnson	DIST. PRECONSTRUCTION ENGR.
				WEBER COUNTY
PROJECT NUMBER	HHS-000S(2)			SHEET NO. 2

SUMMARY SHEET

INTERSECTION	SURFACING										CONSTRUCTION SOURCE REFERENCE	
	GRAVEL MATERIAL					BITUMINOUS MATERIAL					BOOK	PAGE
	BITUMINOUS SURFACE COURSE		UNTREATED BASE COURSE		AC-10 VISCOSITY GRADED ASPHALT		MC-70 OR MC-250		SS-1 EMULSION			
	1/2" MAX AREA	140 LBS PER CU FT DEPTH	1" MAX. AREA	135 LBS PER CU FT DEPTH	PERCENT	TON	TON	TON	TON			
WASHINGTON BLVD 36th STREET		9.2		24.6	6	5.4		0.1	0.01		WEIGH	VARIOUS
39th STREET												
40th STREET		36.7		7.05	6	2.2		0.2	0.03			
43rd STREET		212.4		2420.8	6	12.80		1.28	0.28			
22nd STREET S.E. COR.		3.1		8.2	6	0.19		0.02	0.01			
SW COR		3.1		8.2	6	0.19		0.02	0.01			
NW COR		3.1		8.2	6	0.19		0.02	0.01			
QUINCY AVE & 36th STREET SW COR		3.0		12.6	6	0.2		0.02	0.01			
TOTAL		593.94		1025.50		37.029		4.166	0.36		WEIGH	VARIOUS
USE		280		2560		17						

INTERSECTION	EARTHWORK QUANTITIES		CONSTRUCTION SOURCE REFERENCE	
	ROADWAY EXC.	CU YD.	BOOK	PAGE
40th STREET	160			
STA. 27+01 - 29+50	976		CROSS SECTION	ROLL #1
43rd STREET				
STA. 40+00 - 51+00	331.6		CROSS SECTION	ROLL #2
TOTAL	429.2			
USE	160			

SUMMARY OF ITEMS			
NAME	UNIT	QUANTITY	
MOBILIZATION	Book D1 Pg. 149	LUMP	100%
FLAGGING	Book M1 Pg. 1 to 63	HOURLY	263
ADVANCE WARNING DEVICE TYPE "A" STATIONARY	Book M1 Pg. 1 to 61	HOURLY	400
18" X 11" CORRUGATED STEEL PIPE ARCH	Book FSI Pg. 63	LIN FT	8
15" REINFORCED CONCRETE PIPE DELETED		LIN FT	0
12" PIPE CULVERT (SPECIFY R.C.P., C.S.P. or C.A.P.)	Book FSI Pg. 46 to 48	LIN FT	44
12" REINFORCED CONCRETE PIPE	Book FSI Pg. 37 to 42	LIN FT	40
18" CORRUGATED STEEL PIPE	Book FSI Pg. 63, 65-67	LIN FT	44
MOVING & RESETTING FENCE	Book FSI Pg. 37	LIN FT	14.5
REMOVAL OF CONCRETE CURB & GUTTER	Book FSI Pg. 36 to 37	LIN FT	419.7
REMOVAL OF CONCRETE SIDEWALK	Book FSI Pg. 36 to 70	SQ. YD.	108.96
CONCRETE SAWING	Book FSI Pg. 59 to 70	LIN FT	180
CONCRETE CURB & GUTTER TYPE "A" (MODIFIED)	Book FSI Pg. 36 to 76	LIN FT	510.3
CONCRETE CURB TYPE "G"	Book FSI Pg. 78	LIN FT	1500
CONCRETE SIDEWALK - 4" THICK	Book FSI Pg. 40 to 76	SQ. YD.	87.55
CONCRETE SMALL STRUCTURES CLASS A (AE)	Book FSI Pg. 41 to 72	CU YD	9.741
REINFORCING STEEL	Book FSI Pg. 41 to 72	LBS	1343.6
CLEAN OUT BOX SOLID COVER & FRAME V-988	Book FSI Pg. 52 to 53	EACH	1
CATCH BASIN GRATE & FRAME V-988	Book FSI Pg. 41 to 72	EACH	11
CONCRETE MEDIAN FILLER	Book FS2 Pg. 2 to 3	SQ YD	38.46
UNTREATED BASE COURSE 1" MAX	Book WEIGH Pg. VARIOUS	TON	1025.50
OBTERATION OF LANE MARKINGS	Book FSI Pg. 79 to 80	LIN FT.	5769.9
BITUMINOUS MATERIAL GRADE AC-10	Book WEIGH Pg. VARIOUS	TON	57.029
VISCOSITY GRADED ASPHALT	Book WEIGH Pg. VARIOUS	TON	17
BITUMINOUS SURFACE COURSE 1/2" MAX	Book WEIGH Pg. VARIOUS	TON	593.94
18" PIPE CULVERT (SPECIFY R.C.P., C.S.P. or C.A.P.)	Book FSI Pg. 46 to 53	LIN FT.	338
PAINTED PAVEMENT MESSAGE	Book FS2 Pg. 8, 9, 10	EACH	32
CONTINGENT SUM PAY ITEM		LUMP	0
HIGHWAY TRAFFIC PAINT	Book D1 Pg. 166 to 167	GAL.	31
ROADWAY EXCAVATION	Cross Section Roll #1, #2	CU YD.	429.2
REMOVAL OF CONCRETE PAVEMENT DELETED		SQ YD	20
12" CORRUGATED STEEL PIPE DELETED		LIN FT	20
RECONSTRUCTING CLEANOUT, MANHOLES & MONUMENT BOXES	Book FSI Pg. 33, 37, 72	EACH	2
MOVING STREET SIGNS	Book D1 Pg. 230	EACH	4

*NOTE: FOR INFORMATION ONLY, PAYMENT FOR THESE ITEMS INCLUDED IN OTHER ITEMS OF WORK

* MATERIAL TO BE USED FOR BACKFILL AT 43rd SOUTH & EXCESS MATERIAL TO BE DISPOSED OF BY THE CONTRACTOR.

INTERSECTION	CONCRETE WORK				CONSTRUCTION SOURCE REFERENCE	
	CONC SIDEWALK 4" THICK	REMOVAL OF CONC SIDEWALK	CONC SAWING	CONC MEDIAN FILLER	BOOK	PAGE
WASHINGTON BLVD 36th STREET NW COR	6.94	10	30		FSI	62 - 63
NE COR	5.14	13.2	30		FSI	62 - 63
SE COR	11.95	5.4	30		FSI	64 - 65
40th STREET SE COR		1.81			FSI	36 - 37
NE COR		9.09			FSI	59
43rd STREET NW COR	7.22	9.27	30		FSI	55 - 56
47+28 TO 48+45				34.86	FSI	2 - 3
22nd STREET SE COR	8.69	3.40	30		FSI	71 - 72
SW COR	11.95	3.30	30		FSI	73 - 74
NW COR	26.34	16.6	30		FSI	75 - 76
QUINCY AVE & 36th STREET SW COR	4.10	5.39			FSI	40 - 42
WASHINGTON BLVD 36th STREET NW COR		9.71			FSI	61
SE COR		12.50	5.0		FSI	60
NE COR		6.0			FSI	59
22nd STREET SW COR		22.87	14.1		FSI	69
NW COR		22.70	15.6		FSI	70
SE COR		15.62	8.5		FSI	68
TOTAL	87.33	108.96	49.2	34.86		

INTERSECTION	CONCRETE CURB, CURB & GUTTER				CONSTRUCTION SOURCE REFERENCE	
	EXC FOR STR	TO BE REMOVED	TYPE "A" (MODIFIED)	CONC CURB TYPE "G"	BOOK	PAGE
WASHINGTON BLVD 36th STREET NW	9.08	34	30		FSI	61
NE	9.08	52	30		FSI	59
SE	9.08	51.7	30		FSI	60
40th STREET SE	19.5	275	48.0		FSI	36 - 37
43rd STREET SW	12.7	25.0	40		FSI	56
43rd STREET NW	12.7	50	40	1500	FSI	56
22nd STREET SE	9.0	52.6	31.42		FSI	68
SW	9.0	55.0	31.42		FSI	69
NW	9.0	53.4	31.42		FSI	70
QUINCY AVE & 36th STREET SW	16.08	12.5	8.53		FSI	40 - 42
43rd STREET WASH. BLVD STA. 44+22 - 50+22 S WASHINGTON BLVD.			135.3		FSI	57
36th STREET NE COR.			40.7		FSI	62 - 63
SE COR.			41.2		FSI	64 - 65
NW COR.			30.5		FSI	66 - 67
22nd STREET SE COR.			45.4		FSI	71 - 72
SW COR.			37.6		FSI	73 - 74
NW COR.			50.3		FSI	75 - 76
STA. 41+00 - 48+45			1505.0		FSI	78
TOTAL		419.7	510.3	1505.0		

** NOTE: EXCAVATION FOR STRUCTURES NOT A CONTRACT PAY ITEM. THESE FIGURES FOR INFORMATION ONLY

MISCELLANEOUS		
NAME	UNIT	QUANTITY
MOBILIZATION	LUMP	100%
FLAGGING	HOURS	263
ADVANCED WARNING DEVICE TYPE "A" STATIONARY	HOURS	400
MOVING & RESETTING FENCE	LIN FT	14.5
PAINTED PAVEMENT MESSAGE	EACH	32
CONTINGENT SUM PAY ITEM	LUMP	0
HIGHWAY TRAFFIC PAINT	GAL	31
RECONSTRUCTING CLEANOUT, MANHOLES & MONUMENT BOXES	EACH	2
REMOVAL OF CONCRETE PAVEMENT DELETED	SQ YD	20
MOVING STREET SIGNS	EACH	4
OBLITERATION OF LANE MARKINGS	LIN FT	5769.9

I HEREBY CERTIFY THE ABOVE QUANTITIES OF WORK DONE ARE CORRECT _____ DATE _____ PROJECT ENGINEER

UTAH STATE DEPARTMENT OF HIGHWAYS			
DIST ONE - OGDEN UTAH			
ROADWAY DESIGN			
VARIOUS INTERSECTIONS			
SUMMARY SHEET			
DESIGN BHS 11/73	CHECK BPW 11/73	REVIEW	
DRAWN B.P.W. 11/73	CHECK BHS 11/73	DATE	
QUANT L.M.B. 11/73	CHECK BHS 11/73	DATE	
APPROVAL	DATE	DIST PROJECT ENGINEER	WEBER
PROJECT NUMBER	HHS-000 S (2)		SHEET NO 3

SUMMARY SHEET

INTERSECTION	X-ING ANGLE	DRAINAGE														REMARK						
		PIPE CULVERT		CORR STEEL PIPE ARCH	CORRUGATED STEEL PIPE		R C P		GUTTER INLET	EXC. FOR STR	GRAN. BACKFILL BORROW	CONC. SMALL STRUCT CI A (AE)	REINF. STEEL	STR. STEEL	C.O.D. SOLID COVER & FRAME V-988		C.B. GRATE & FRAME V-988	LINE NO.	DWG. NO.	CONSTRUCTION SOURCE REFERENCE		
		18"	12"	18" x 11"	18"	12"	12"	-15"												LN. FT.	CU YD	TON
WASHINGTON BLVD.																						
40 th STREET																						
STA. 27+26 - 27+30 26+97 - 27+41			44				32													FSI	35-37	
STA. 26+95																				FSI	35-37	RECONSTRUCT TOP OF CATCH BASIN IN PLACE
STA. 27+26 - 27+30 27+42																				FSI	37	CATCH BASIN REQUIRED
43 rd STREET																						
STA. 44+22 - 47+52 46+40 - 47+40		330	330																	FSI	43-46	
STA. 48+69 - 48+74 48+72 - S.E. CORNER																				FSI	49-50	CATCH BASIN 49' RT.
NORTHWEST CORNER 47+56			40				36													FSI	48	REMOVE or ABANDON EXISTING PIPE
STA. 47+59 - 47+56			4				4													FSI	45-46	EXTEND EXISTING
STA. 47+52 - 47+56																				FSI	45-46	CATCH BASIN BOX 48' RT GUTTER INLET IN PLACE 72'
STA. 47+83 (225 RT. 47+55.5)																				FSI	47-48	CATCH BASIN REQUIRED 75' RT
36 th STREET																						
STA. 24+71 - N.E. CORNER							5													FSI	63	CATCH BASIN 41' RT.
STA. 24+71 - N.E. CORNER																						DELETED
STA. 0+75 - S.E. CORNER							8															DELETED
STA. 0+75 - S.E. CORNER																						CATCH BASIN 41' LT.
22 nd STREET & WASHINGTON BLVD																						
STA. 130+10 LT. - SW CORNER							25															DELETED
STA. 130+03 RT. - S.E. CORNER							20															RECONSTRUCT TOP OF CATCH BASIN IN PLACE 54' RT.
STA. 130+29 RT. - S.E. CORNER																						80' RT.
QUINCY & 36 th STREET																						
SOUTHWEST CORNER							8															CATCH BASIN REQUIRED
SOUTHWEST CORNER WASHINGTON BLVD & 36 th STREET																						
STA. 0+11 N.E. COR.							8															69' LT.
STA. 0+51 S.E. COR.							14															66' LT.
45 th STREET																						
STA. 44+17 - 44+22																						CATCH BASIN REQUIRED H=5.6
STA. 50+10 - 50+15		8																				CATCH BASIN REQUIRED H=5.0
STA. 50+10 - 50+15																						
TRANSFERRED FROM SHEET # 3																						
TOTAL		338	44	8	44	20	40	8			9,741.0	1,349.6										
USE		330	44	4	20	20	40	8			8	980										

* NOTE: Excavation for structures not a contract pay item, these figures for information only

** NOTE: Catch Basin adjusted to meet existing surface. Payment for items, with exception of solid cover & Frame V-988 is on a Lump sum basis.

INTERSECTION	FIRE HYDRANTS						CONSTRUCTION SOURCE REFERENCE	
	6" GATE VALVES & BOX	BENDS	SALVAGE & RESET	NEW HYDRANTS REQ'D.	SALVAGE & RETURN CITY		FIELD BOOK	PAGE
	EACH	EACH	EACH	EACH	EACH			
WASHINGTON BLVD.								
36 th STREET								
NORTHEAST CORNER			1				D1	62
40 th STREET S.E. COR			+					

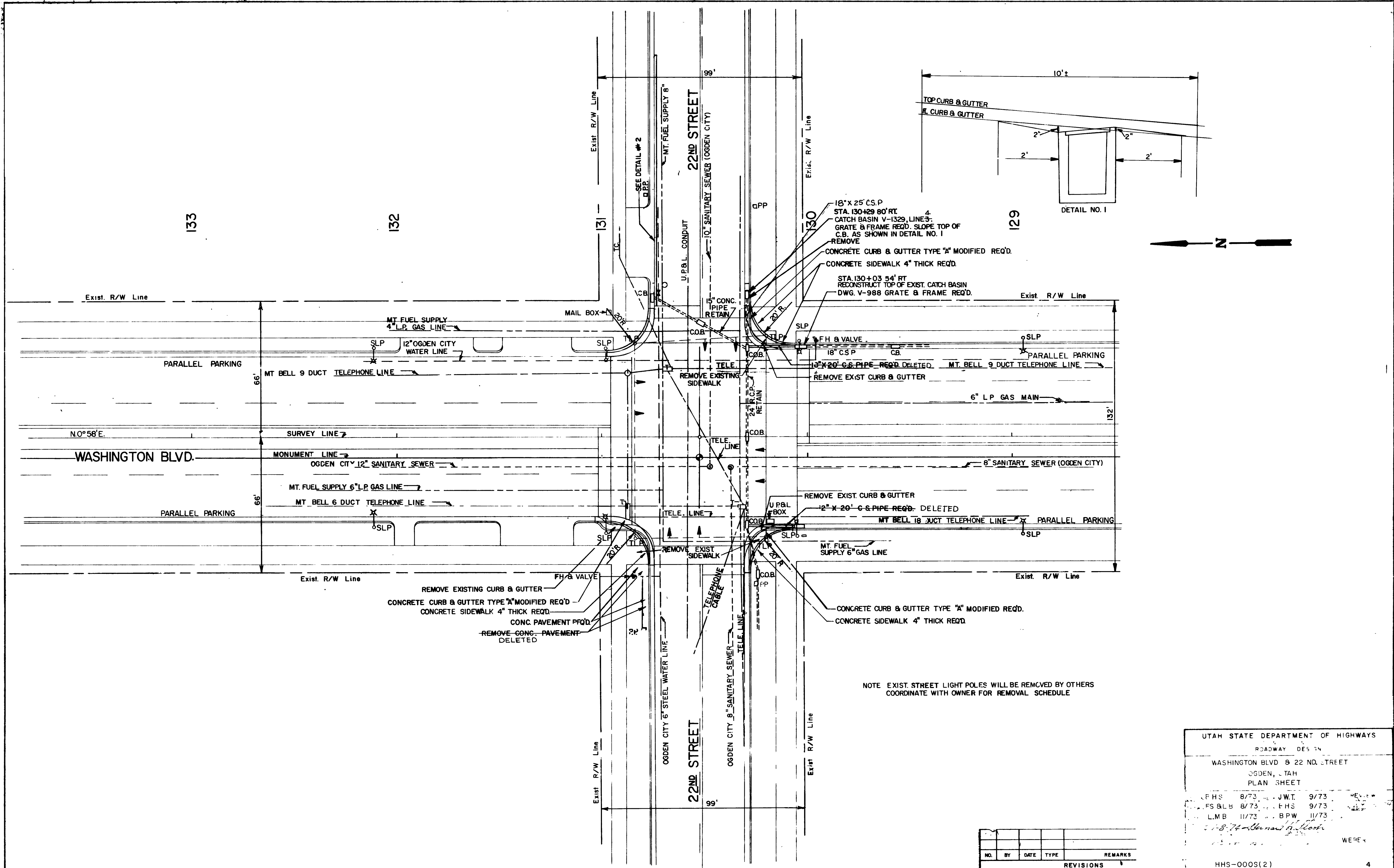
SUMMARY OF ITEMS (CON'T)				
NAME	UNIT	QUANTITY	BK	Pg.
SA #1 REPAIR AND RELOCATE DAMAGED UTILITY LINES	FORCE ACCOUNT	\$ 359.58	D-1	59
SA #2 ITEM NO. 1 IMPORTED BORROW	TON	416.65	#1	166
ITEM NO. 2 CONCRETE CURB & GUTTER, TYPE A	LN. FT.	414.50	FS-1	57-58
ITEM NO. 3 MODIFY CATCH BASIN, STATION 50+10	LUMP SUM	100%	FS-1	52-55
ITEM NO. 4 MODIFY CATCH BASIN, STATION 44+18	LUMP SUM	100%	FS-1	46
ITEM NO. 5 METAL COVERS FOR TYPE IV JUNCTION BOXES	EACH	6	FS-1	46
SA #3 EXTRA WORK NECESSARY DUE TO CLOUD BURST	FORCE ACCOUNT	\$ 411.64	D-1	221
SA #4 INSTALLATION OF TWO ADDITIONAL LUMINAIRES	LUMP SUM	100%	D-1	158
SA #5 INSTALLATION OF PEDESTRIAN POLE	LUMP SUM	100%	D-1	174
SA #6 RAISE AND REALIGN GATE AND INSTALLATION OF 8" CSP	LUMP SUM	100%	D-1	180
SA #7 (REFER TO CONTRACT BID ITEM #53, MINUS \$636.00)	LUMP SUM	100%	D-1	171
SA #8 ELIMINATION OF 5 DETECTOR LOOPS	LUMP SUM	100%	D-1	171
SA #9 CLEAN OUT BOX SOLID COVER AND FRAME	LUMP SUM	100%	D-1	198

I HEREBY CERTIFY THE ABOVE QUANTITIES OF WORK DONE ARE CORRECT
PROJECT ENGINEER DATE _____

UTAH STATE DEPARTMENT OF HIGHWAYS			
DIST ONE - OGDEN UTAH ROADWAY DESIGN			
VARIOUS INTERSECTIONS			
SUMMARY SHEET			
DESIGN	B.H.S. 11/73	CHECK	B.P.W. 11/73
DRAWN	B.P.W. 11/73	CHECK	B.H.S. 11/73
QUANT	L.M.B. 11/73	CHECK	B.H.S. 11/73
APPROVAL	1-8-74	DATE	1-8-74
APPROVED	1-8-74	DATE	1-8-74
REVISIONS			WEBER COUNTY
PROJECT NUMBER			HHS-000 S (2)
SHEET NO			3A

①	BHS	12/1/74	Added Catch Basin
NO	BY	DATE	TYPE
REVISIONS			

DATE: 11/73
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]



NO.	BY	DATE	TYPE	REMARKS
REVISIONS				

UTAH STATE DEPARTMENT OF HIGHWAYS
 ROADWAY DESIGN
 WASHINGTON BLVD & 22ND STREET
 OGDEN, UTAH
 PLAN SHEET

FHS 8/73 J.W.T. 9/73
 FS&LB 8/73 FHS 9/73
 LMB 11/73 BPW 11/73

B. H. ...

HHS-000S(2) 4

27

CITY

OGDEN

OGDEN CITY

SOUTH

TEL. & P.P.

PP

STA 0+00 BK
EQUATION
STA. 24+64.85 AH

25

STA 0+11 69' LT
REMOVE EXIST GUTTER INLET,
CATCH BASIN BOX V-1329 LINE 2,
GRATE & FRAME REQ'D.

EXISTING 12" CONC PIPE
CONC. SIDEWALK 4" THICK REQ'D.
CONC. CURB & GUTTER TYPE "A" MODIFIED REQ'D

18"x5' CSP

MT BELL TELE CABLE

36 TH STREET

PP

15" CONC STORM SEWER (SO OGDEN)

MT BELL 6" DUCT TELE. LINE

STA 0+51 66' LT
REMOVE EXIST GUTTER INLET
CATCH BASIN BOX V-1329 LINE 2,
GRATE & FRAME REQ'D.

CONC. CURB & GUTTER TYPE "A" MODIFIED REQ'D
CONC. SIDEWALK 4" THICK REQ'D

6" DRAIN TILE PIPE

MT FUEL SUPPLY 2" IHP GAS LINE

REMOVE EXIST SIDEWALK

STA 0+75 41' LT REMOVE EXIST. GUTTER INLET,
CATCH BASIN V-1329 LINE 2, GRATE & FRAME REQ'D.
15'x8' R.C.P. EXTENSION TO EXIST PIPE REQ'D.
8" EXISTING

Exist R/W Line

Exist R/W Line

MT BELL 4" DUCT TELE. LINE

MT FUEL SUPPLY 8" IHP GAS LINE

RELOCATE FIRE HYDRANT (BY OTHERS)

8" SANITARY SEWER (OGDEN CITY)

OGDEN CITY 10" C.I. WATER LINE

4" LP GAS

STA 24+71 41' RT. REMOVE EXIST. GUTTER OUTLET,
CATCH BASIN V-1329 LINE 2, GRATE & FRAME REQ'D.
18"x11"x4" S.P.A. FROM CATCH BASIN TO EXIST.
COVERED DRIVEWAY REQ'D. (BELOW FALSE CURB)

66'

REMOVE EXIST CURB & GUTTER
REMOVE EXIST SIDEWALK

8" SANITARY SEWER (OGDEN CITY)

2" IHP GAS

REMOVE LIGHT POLE

CONC. SIDEWALK 4" THICK REQ'D.
CONC. CURB & GUTTER TYPE "A" MODIFIED REQ'D

Exist R/W Line

OGDEN CITY 10" C.I. WATER LINE

MT FUEL SUPPLY 10" IHP GAS LINE

OGDEN CITY SANITARY SEWER

66'

MT BELL TELE LINE

OGDEN CITY 8" IHP GAS MAIN

47'

MT BELL TELE LINE

OGDEN CITY 10" IHP GAS MAIN

OGDEN CITY SANITARY SEWER

OGDEN CITY 10" C.I. WATER LINE

OGDEN CITY 10" C.I. WATER LINE

OGDEN CITY 10" C.I. WATER LINE

OGDEN CITY 10" C.I. WATER LINE

OGDEN CITY 10" C.I. WATER LINE

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OGDEN CITY 10" C.I. WATER LINE

OGDEN CITY 10" C.I. WATER LINE

OGDEN CITY 10" C.I. WATER LINE

OGDEN CITY 10" C.I. WATER LINE

OGDEN CITY 10" C.I. WATER LINE

WASHINGTON BLVD.

2

83'

132'

MT FUEL SUPPLY 4" LP GAS LINE

PP

Exist R/W Line

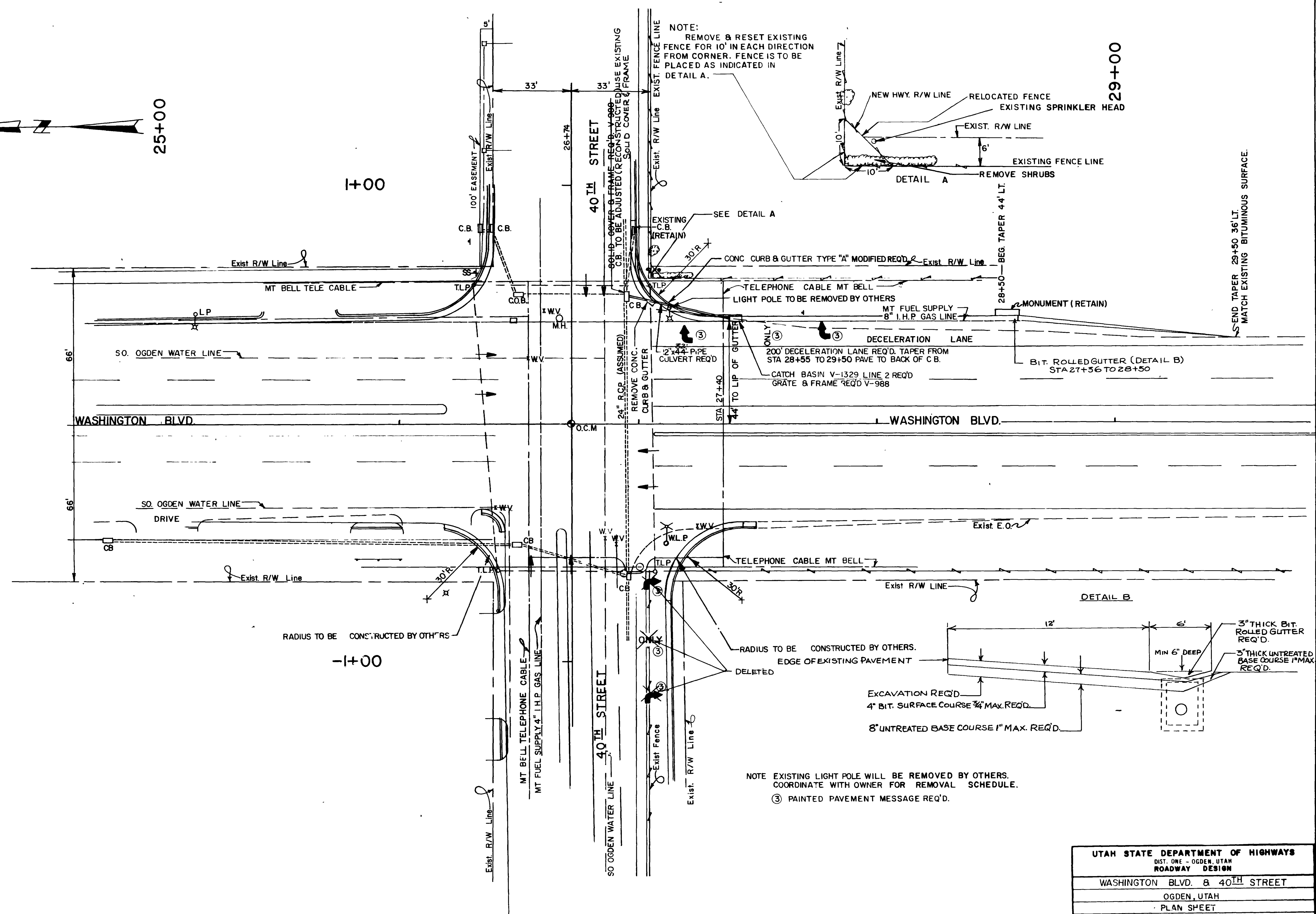
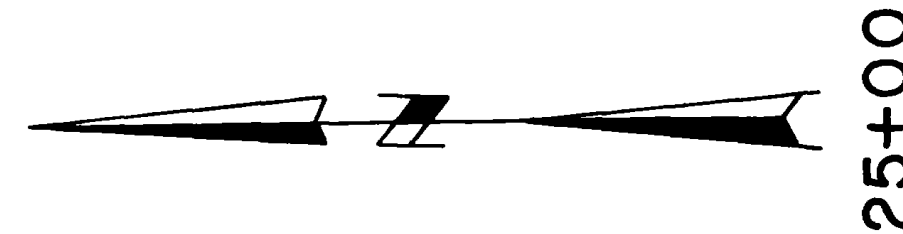
NOTE: EXISTING LIGHT POLES WILL BE REMOVED BY OTHERS
COORDINATE WITH OWNER FOR REMOVAL SCHEDULE.

PP

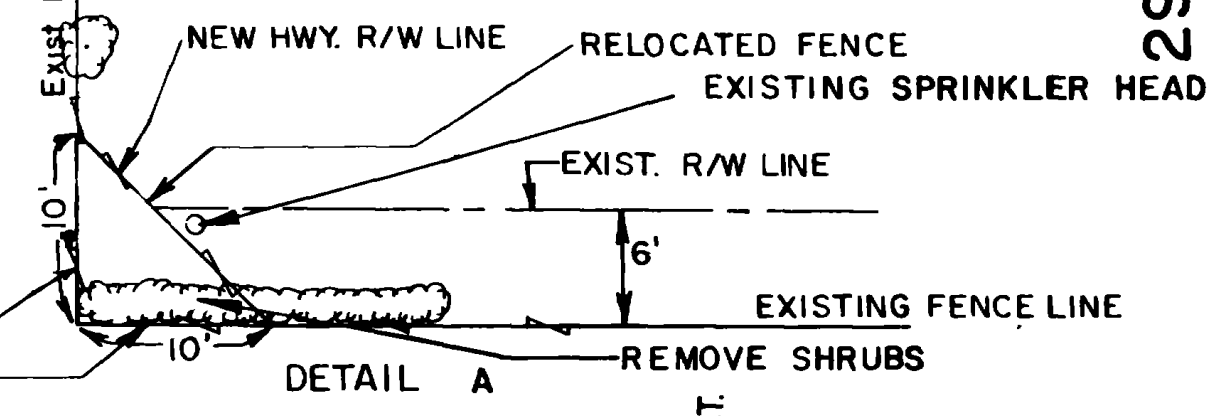
PP C

UTAH STATE DEPARTMENT OF HIGHWAYS			
DIST. ONE - OGDEN, UTAH			
ROADWAY DESIGN			
36 TH ST & WASHINGTON BLVD.			
OGDEN, UTAH			
PLAN SHEET			
DESIGN	B.H.S. 11/73	CHECK	L.M.B. 11/73
REVIEW			
DRAWN	L.M.B. 11/73	CHECK	B.H.S. 11/73
DESIGN			
QUANT	L.M.B. 12/73	CHECK	B.P.W. 12/73
R/W			
APPROVAL	DATE: 1-8-74		
RECOMM.	PROJ. DESIGN ENGINEER		
APPROVED	DATE: 1-8-74		
DATE	DIST. PRECONSTRUCTION ENGR.		
PROJECT NUMBER	HHS-000S(2)		
SHEET NO.	5		

NO	BY	DATE	TYPE	REMARKS



NOTE:
REMOVE & RESET EXISTING FENCE FOR 10' IN EACH DIRECTION FROM CORNER. FENCE IS TO BE PLACED AS INDICATED IN DETAIL A.



DETAIL A

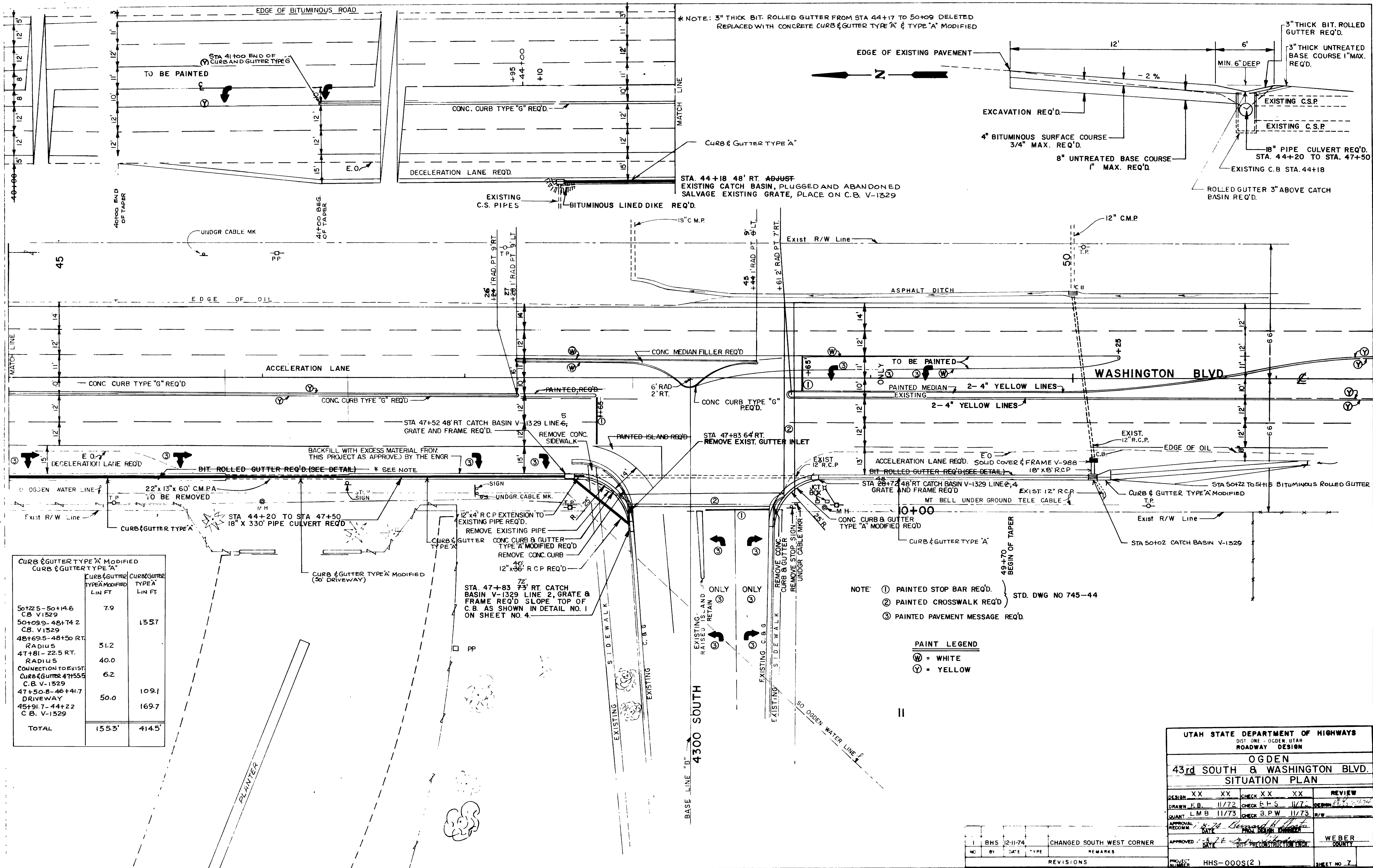


DETAIL B

NOTE EXISTING LIGHT POLE WILL BE REMOVED BY OTHERS. COORDINATE WITH OWNER FOR REMOVAL SCHEDULE.
③ PAINTED PAVEMENT MESSAGE REQ'D.

UTAH STATE DEPARTMENT OF HIGHWAYS			
DIST. ONE - OGDEN, UTAH			
ROADWAY DESIGN			
WASHINGTON BLVD. & 40 TH STREET			
OGDEN, UTAH			
PLAN SHEET			
DESIGN	BHS 8/73	CHECK	L.M.B. 11/73
DRAWN	FS & LB 8/73	CHECK	R.H.S. 11/73
QUANT.	L.M.B. 12/73	CHECK	B.P.W. 12/73
APPROVAL	DATE		DATE
RECOMM.	DATE		DATE
APPROVED	DATE		DATE
NO.	BY	DATE	REMARKS
1	RDE	12-74	Changed Radius on S.E. Corner
REVISIONS			
PROJECT NUMBER: HHS-0005 (2)			
SHEET NO. 6			

PP □



* NOTE: 3" THICK BIT. ROLLED GUTTER FROM STA 44+17 TO 50+09 DELETED
REPLACED WITH CONCRETE CURB & GUTTER TYPE 'A' & TYPE 'A' MODIFIED

EDGE OF EXISTING PAVEMENT

EDGE OF BITUMINOUS ROAD

EDGE OF OIL

EDGE OF BITUMINOUS LINED DIKE

EDGE OF OIL

EDGE OF OIL

EDGE OF OIL

EDGE OF OIL

EDGE OF OIL

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CURB & GUTTER TYPE 'A' MODIFIED		
CURB & GUTTER TYPE 'A'		
	CURB & GUTTER TYPE 'A' MODIFIED LIN FT.	CURB & GUTTER TYPE 'A' LIN FT.
50+25-50+14.6 C.B. V-1529	7.9	
50+09-48+74.2 C.B. V-1529		135.7
48+69.5-48+50 RT. RADIUS	51.2	
47+81-22.5 RT. RADIUS	40.0	
CONNECTION TO EXIST. CURB & GUTTER 47+55.5 C.B. V-1529	6.2	
47+50.8-46+41.7 DRIVEWAY	50.0	109.1
45+91.7-44+22 C.B. V-1529		169.7
TOTAL	155.3'	414.5'

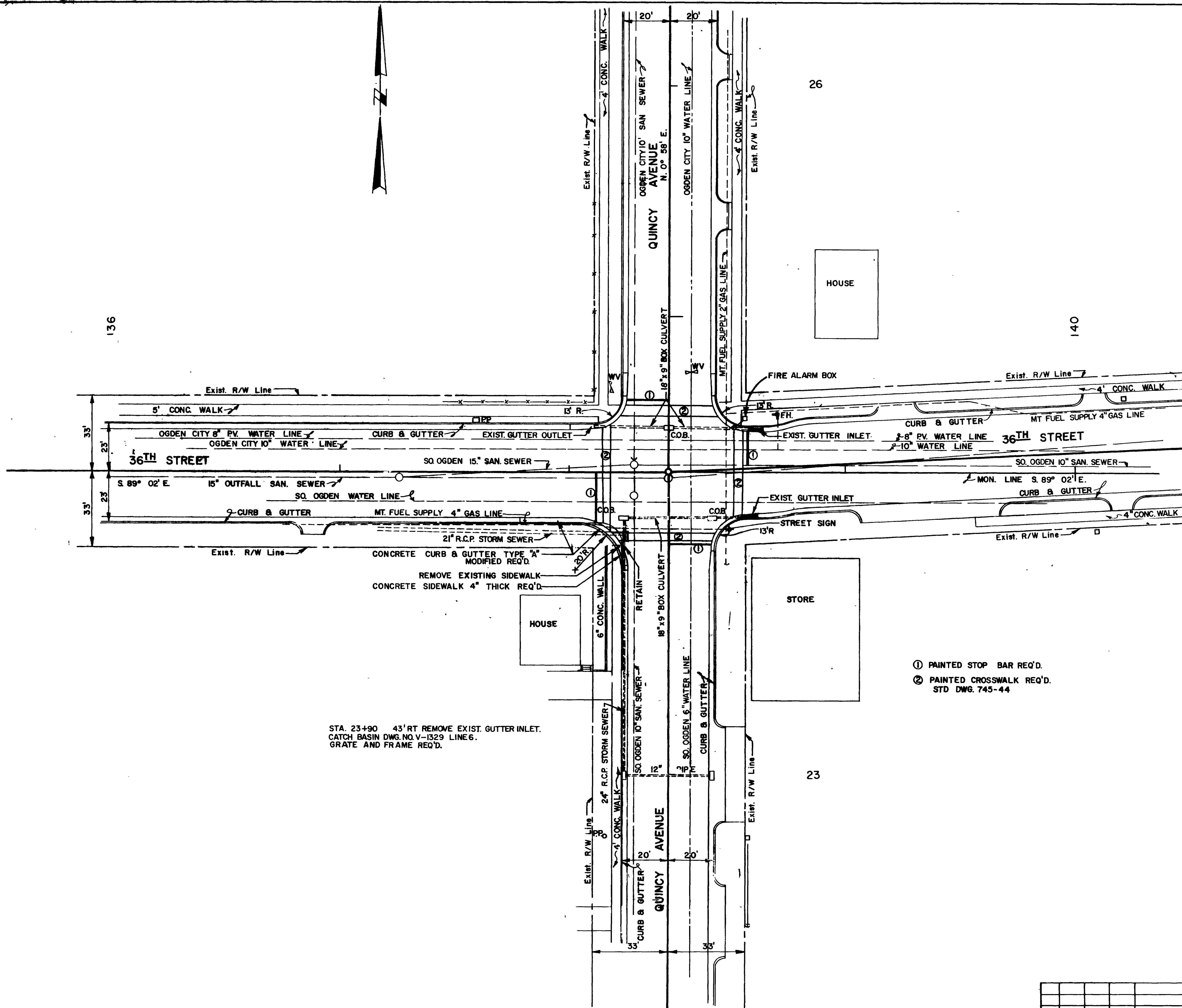
- NOTE: ① PAINTED STOP BAR REQ'D. ② PAINTED CROSSWALK REQ'D. ③ PAINTED PAVEMENT MESSAGE REQ'D.

PAINT LEGEND
 (W) = WHITE
 (Y) = YELLOW

UTAH STATE DEPARTMENT OF HIGHWAYS			
DIST ONE - OGDEN, UTAH			
ROADWAY DESIGN			
OGDEN			
43rd SOUTH & WASHINGTON BLVD.			
SITUATION PLAN			
DESIGN	XX	CHECK	XX
DRAWN	F.B.	11/72	CHECK
QUANT	L.M.B.	11/73	CHECK
APPROVAL	DATE		PROJECT
RECOMM.	DATE		NUMBER
APPROVED	DATE		PROJECT
NO.	BY	DATE	REVISIONS
REVISIONS			
HHS-000S(2)			

1	BHS	12-11-74	CHANGED SOUTH WEST CORNER
NO.	BY	DATE	REVISIONS

WEBER COUNTY

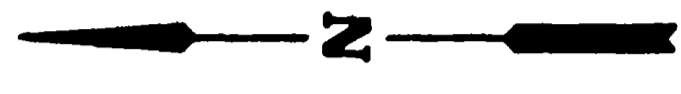


STA. 23+90 43' RT REMOVE EXIST. GUTTER INLET.
 CATCH BASIN DWG. NO. V-1529 LINE 6.
 GRATE AND FRAME REQ'D.

- ① PAINTED STOP BAR REQ'D.
- ② PAINTED CROSSWALK REQ'D.
 STD DWG. 745-44

UTAH STATE DEPARTMENT OF HIGHWAYS			
DIST. ONE - OGDEN, UTAH			
ROADWAY DESIGN			
36TH & QUINCY			
OGDEN, UTAH			
PLAN SHEET			
DESIGN O.C.	8/73	CHECK D.S.	8/73
DRAWN B.P.W.	8/73	CHECK B.H.S.	8/73
GRANT L.M.B.	11/73	CHECK B.P.W.	11/73
APPROVAL	DATE	DATE	DATE
RECOMM.	1-8-74	1-8-74	1-8-74
APPROVED	DATE	DATE	DATE
1-8-74	1-8-74	1-8-74	1-8-74
			WEBER COUNTY
PROJECT NUMBER HHS-0005(2)			SHEET NO. 6

NO.	BY	DATE	TYPE	REMARKS
REVISIONS				



25

40 TH. STREET

30

35

40

Exist Hwy R/W Line

Exist Hwy R/W Line

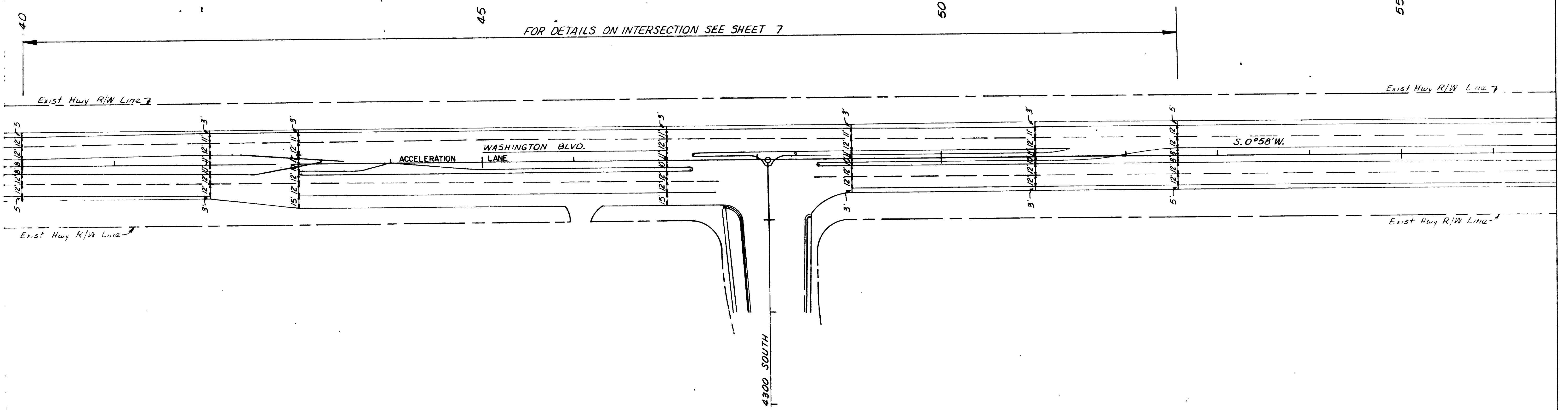
WASHINGTON BLVD.

Exist Hwy R/W Line

Exist Hwy R/W Line

FOR DETAILS ON INTERSECTION SEE SHEET 6

UTAH STATE DEPARTMENT OF HIGHWAYS			
ROADWAY DESIGN			
VARIOUS INTERSECTIONS			
WASHINGTON BLVD., OGDEN			
PLAN SHEET			
DESIGNED BY	XX	XX	REVIEW
DRAWN BY	L.M.B. 11/74	B.H.S. 11/74	DESIGN
CHECKED BY	L.M.B. 11/74	B.H.S. 11/74	DATE
APPROVED	Bernard H. Hoats		WEBER COUNTY
DATE	11/74		PROJ. DESIGN ENGINEER
REVISIONS			
HHS-0005 (2)			
SHEET NO. 9			



UTAH STATE DEPARTMENT OF HIGHWAYS			
ROADWAY DESIGN			
VARIOUS INTERSECTIONS			
WASHINGTON BLVD.			
PLAN SHEET			
DESIGN	XX XX	CHECK	XX XX
DRAWN	LMB 11/74	CHECK	BHS 11/74
QUANT	LMB 11/74	CHECK	BHS 11/74
APPROVAL	DATE	DATE	DATE
RECOMM	11/74	11/74	11/74
APPROVED	DATE	DIST PRECONSTRUCTION ENGR	WEBER COUNTY
REVISIONS			PROJECT NUMBER
			HHS-0005 (2)
			SHEET NO 10

LOCATION	SIGNAL CONTROLLER (STATE FURNISHED)					SIGNAL STRUCTURAL SUPPORT SYSTEM				VEHICULAR and PEDESTRIAN SIGNAL HEADS												SIGNAL DETECTION DEVICE						SIGNAL POWER SOURCE				
	CABINET	CONTROLLER			JUNCTION BOX	AMP	STRUCTURAL STEEL				SIGNAL HEADS			PED. SIG.	STREET LIGHTS	CABLES			CONDUIT			JUNCTION BOX		SENSING UNITS		CABLES		CONDUIT		SIGNALS		STREET LIGHTS
OGDEN SIGNALS	TYPE F (35")	TYPE M	2 PHASE ELECTRO-MECHANICAL		Flasher inside fire station	LOOP DETECTOR	5/16" Guy Wire (galvanized) MAST ARM SIGNAL POLE (STATE FURNISHED) MAST ARM SIGNAL POLE WITH LIGHT POLE EXTENSION (STATE FURNISHED) HIGH STRENGTH SIGNAL POLE (State-Furnished) POLE MOUNT FOR SIGNAL HEADS CLASS A CONCRETE (A/E) INCLUDES CONTROLLER FOUND.				12" 1 WAY, 3 SECTION OPTICALLY PROGRAMMED (125-150W) LAMPS 12" 1 WAY, 3 SECTION WITH (125V - 150W) LAMPS 12" 1 WAY, 3 SECTION WITH LEFT OR RIGHT TURN ARROW 12" 1 Way, 2 Section with (125V-150W) Lamps "WALK-DONT WALK" MOD. OR STATE APPROVED GRID TYPE INDICATIONS 400 W. 240 V. TYPE III LUMINAIR AH FRONT SOCKET POSITION, HIGH PRESSURE SODIUM 400 W. 240 V. TYPE III LUMINAIR AH REAR/1 SOCKET POSITION MERCURY VAPOR 4 CDR. NO. 14 PVC SIGNAL CIRCUIT 7 CDR. NO. 14 PVC SIGNAL CIRCUIT (PED) 5 CDR. NO. 14 PVC With 1/4" Signal Circuit 1 CDR. NO. 12 PVC INTERLOCK CIRCUIT 4 CDR. NO. 14 PVC MAST ARM SIGNAL POLE 1 CDR. NO. 6 PVC STREET LIGHTING 1" RIGID STEEL CONDUIT (GALV.) INTERLOCK CIRCUITS 1" RIGID STEEL CONDUIT (GALV.) FIRE ALARM CIRCUIT 1" RIGID STEEL CONDUIT (GALV.) STREET LIGHTING CIRCUIT 2" RIGID STEEL CONDUIT (GALV.) SIGNAL CIRCUITS TYPE III JUNCTION BOX TYPE IV JUNCTION BOX			IMSA SPECS. 19-1 OR 20-1 1 CDR. NO. 14 LOOP DETECTOR * MAGNETIC DETECTOR MULTI-LANE PUSH BUTTONS AND SIGNS Push Buttons inside fire station (State-Furnished) 2 CDR. NO. 14 SHIELDED DETECTOR CIRCUIT * 3 CDR. NO. 14 PVC PUSH BUTTON C.I.R. CDR. NO. PVC CDR. NO. PVC 1" RIGID STEEL CONDUIT (GALV.) DETECTOR CIRCUITS 1/2" RIGID STEEL CONDUIT (GALV.) DETECTOR CIRCUITS 1/2" PVC Conduit						1 CDR. NO. 8 PVC SIGNAL CIRCUIT 1" RIGID STEEL CONDUIT (GALV.) SIGNAL CIRCUIT 1 CDR. NO. 6 PVC LIGHTING CIRCUIT 1" RIGID STEEL CONDUIT (GALV.) LIGHTING CIRCUIT												
AND																																
30th & MONROE BLVD.	1	1	1	1	1	4	3	1	11	8	8	1	330	330	300	120	250	1	10	2060	8	715	325	480	80	150	250	120	250	120		
36th & QUINCY AVE.	1	1	1	1	1	4	3	1	11	8	8	1	325	300	275	250	65	200	2	11	1575	8	700	310	500	80	120	160	80	160	80	
22nd & WASHINGTON	1						2	2	11	8	8	2	425	385	330	300	610	310	480	200	300	3	7				130	60	130	60		
36th & WASHINGTON	1						2	2	11	8	8	2	375	350	190	310	610	160	255	255	3	5						120	55	120	55	
39th & WASHINGTON					1		375	4	8		8	2		450	1150																	
40th & WASHINGTON	1	1	1	1	1	4	2	2	11	8	8	2	450	465	330	690	220	325	3	11	2100	8	825	385	720	75	90	40	90	40		
43rd & WASHINGTON	1	1	1	1	1	2	1	1	4 1/2	2	4	1	200		110	125	100	1	1	1250		100		90	85	100	15	100	45	100	45	
UNITS	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	
TOTAL	2	4	3	1	1	4	14	375	12	9	4	1	47 1/2	2	44	8	40	2	9	2105	4850	450	1150	520	1625	2405	470	480	740	1430	13	45
	FT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	
	6985	24	1	2340	1020		1790	160	430	850	400	850	400																			

NOTES:
STATE FURNISHED CONTROLLER EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE BY STATE FORCES FOR DELIVERY CALL 328-5204 (SIGNAL LAB.) 5 WORKING DAYS PRIOR TO DESIRED DELIVERY DATE

SIGNAL POWER SOURCE:
SIGNALS - FROM POWER SOURCE TO CONTROLLER CABINET.
STREET LIGHTS - FROM POWER SOURCE TO LIGHTING JUNCTION BOX.

* STRANDED POLYETHYLENE INSULATED CABLE.
** 8" BRACKET ARMS REQUIRED FOR STREET LIGHTING. LUMINAIRES REQUIRED TO HAVE PHOTO CELLS.

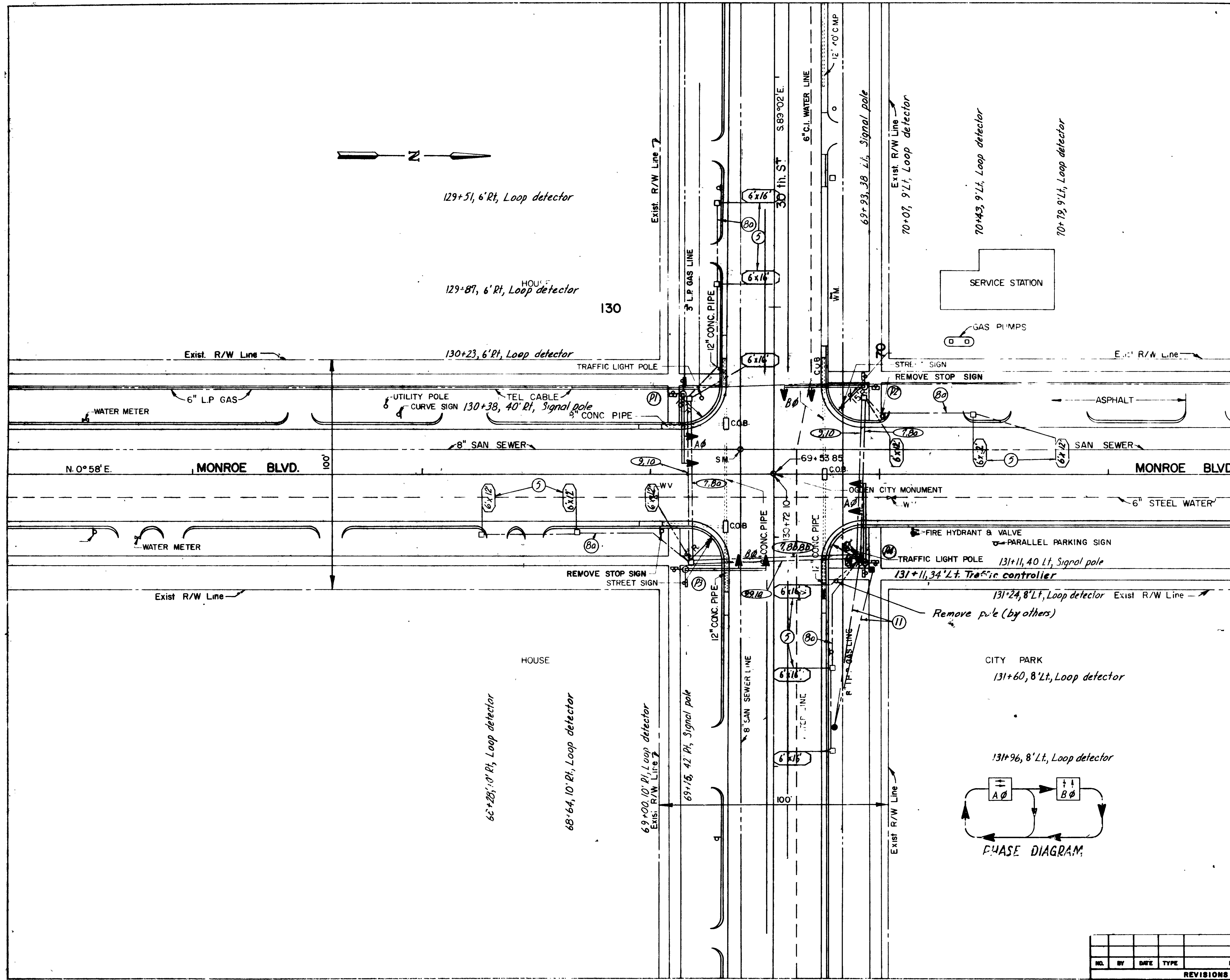
PAY QUANTITIES

LOCATION	SIGNAL CONTROLLER	SIGNAL STRUCTURAL SUPPORT SYSTEM	VEHICULAR and PEDESTRIAN SIGNAL HEADS	SIGNAL DETECTION DEVICE	SIGNAL POWER SOURCE
30th & MONROE BLVD.	FOR INFORMATION ONLY	Lump	Lump	Lump	Lump
36th & QUINCY AVE.	FOR INFORMATION ONLY	Lump	Lump	Lump	Lump
22nd & WASHINGTON	FOR INFORMATION ONLY	Lump	Lump	Lump	Lump
36th & WASHINGTON	FOR INFORMATION ONLY	Lump	Lump	Lump	Lump
39th & WASHINGTON	FOR INFORMATION ONLY	Lump	Lump	Lump	Lump
40th & WASHINGTON	FOR INFORMATION ONLY	Lump	Lump	Lump	Lump
43rd & WASHINGTON	FOR INFORMATION ONLY	Lump	Lump	Lump	Lump

STATE DEPARTMENT OF HIGHWAYS
TRAFFIC SIGNALS
OGDEN SIGNALS - Cont # 1
SUMMARY & SCHEDULE SHEET

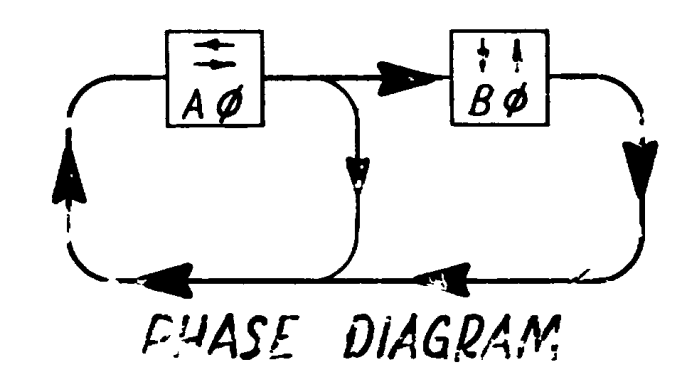
KF Herzog CHECK PH 10 74 REVIEW
K F Herzog CHECK PH 10 74 DESIGN
K F Herzog CHECK PH 10 74
10 74
10 74
WEBER COUNTY

PROJECT NUMBER: HHS-0005 (2) S-61 1 of 1

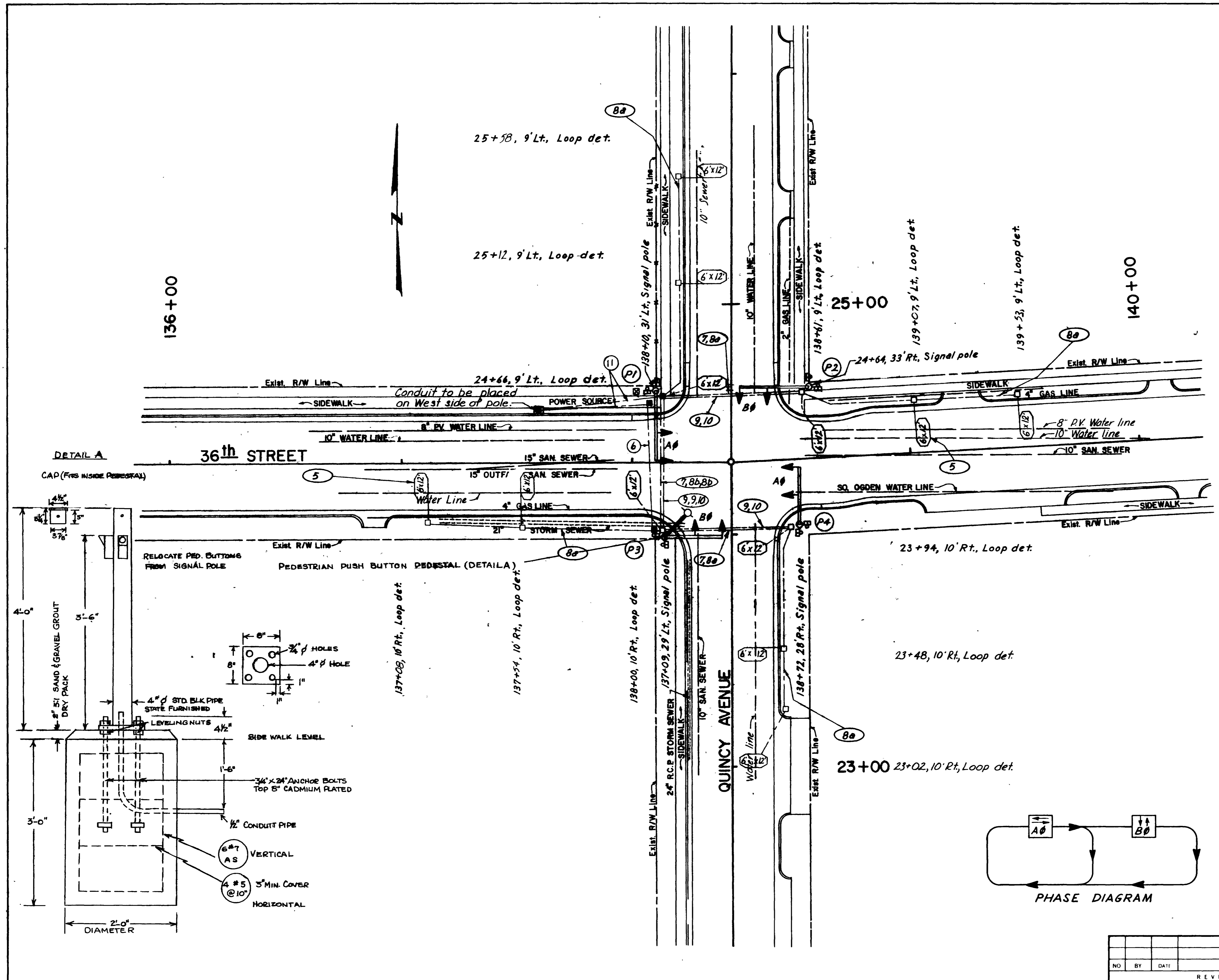


- Notes:**
- 1 Power Co. shall locate meter on power pole 7' above ground.
 - 2 All circuits shall be placed in same trench where possible but in separate conduit.
 - 3 All pedestrian head assemblies shall be type II as shown on "Pedestrian Signal Assembly Detail" sheet.
 - 4 All signal head assemblies shall be type I as shown on "Signal Mounting Detail" sheet.
 - 5 Detector loops—use 1 conductor No. 14 cable. 6'x12' loops use 3 turns, all others use 2 turns.
 - 6 Multiple street lighting circuits—use single conductor No. 6 wire in 1" galvanized rigid steel conduit.
 - 7 Push button circuit—use 3 conductor No. 14 cable in same conduit as detector circuit.
 - 8 Detector circuit—use 2 conductor No. 14 shielded cable in a 1" b.1 1/2" galvanized rigid steel conduit. When more than one circuit is called for install circuits in same conduit.
 - 9 Signal circuit—use 4 conductor No. 14 cable in 2" galvanized rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
 - 10 Pedestrian circuit—use 7 conductor No. 14 cable in same conduit as signal circuit.
 - 11 Power sources—use single conductor No. 6 & 8 wire in 1" galvanized rigid steel conduit. See Summary & Schedule sheet.

- Legend:**
- (P1) Pole identifier.
 - ⊕ Mast arm signal pole
 - ⊕ Mast arm signal pole with light pole extension
 - ➔ 12"-1 way-3 section signal head
 - ☒ Traffic signal control cabinet
 - Type III junction box
 - Type IV junction box
 - ⊕ Pedestrian signal with push button
 - Power source
 - Conduit run
 - ⊕ Type V junction box
 - PVC Loop lead-in

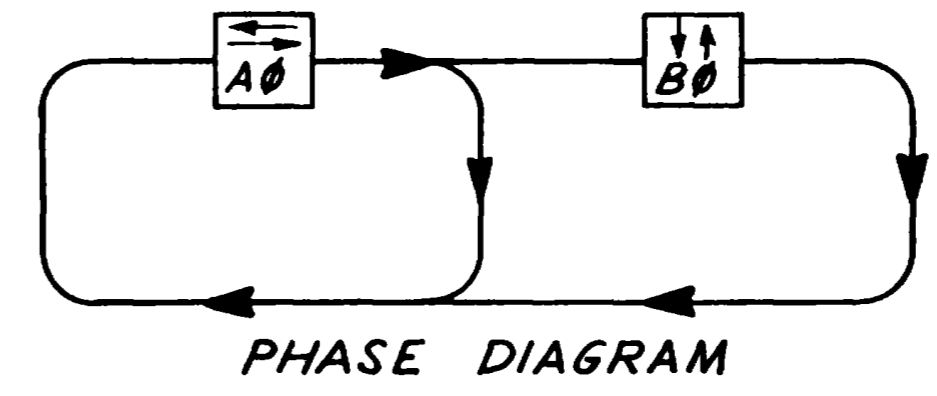


Pole Schedule		UTAH STATE DEPARTMENT OF HIGHWAYS DIST. ONE - OGDEN, UTAH ROADWAY DESIGN			
Ident.	P in length	Traffic Signals 30th St & Monroe Blvd Situation Plan			
P1	30	DESIGN	CHK	DATE	REVIEW
P2	35	DESIGN	CHK	DATE	REVIEW
P3	35	DESIGN	CHK	DATE	REVIEW
P4	35	DESIGN	CHK	DATE	REVIEW
APPROVAL		DATE	DATE	DATE	DATE
RECOMM.		DATE	DATE	DATE	DATE
APPROVED		DATE	DATE	DATE	DATE
PROJECT NUMBER		HHS-0005(2)		S-61	WEBER COUNTY
REVISIONS		SHEET NO. 2			

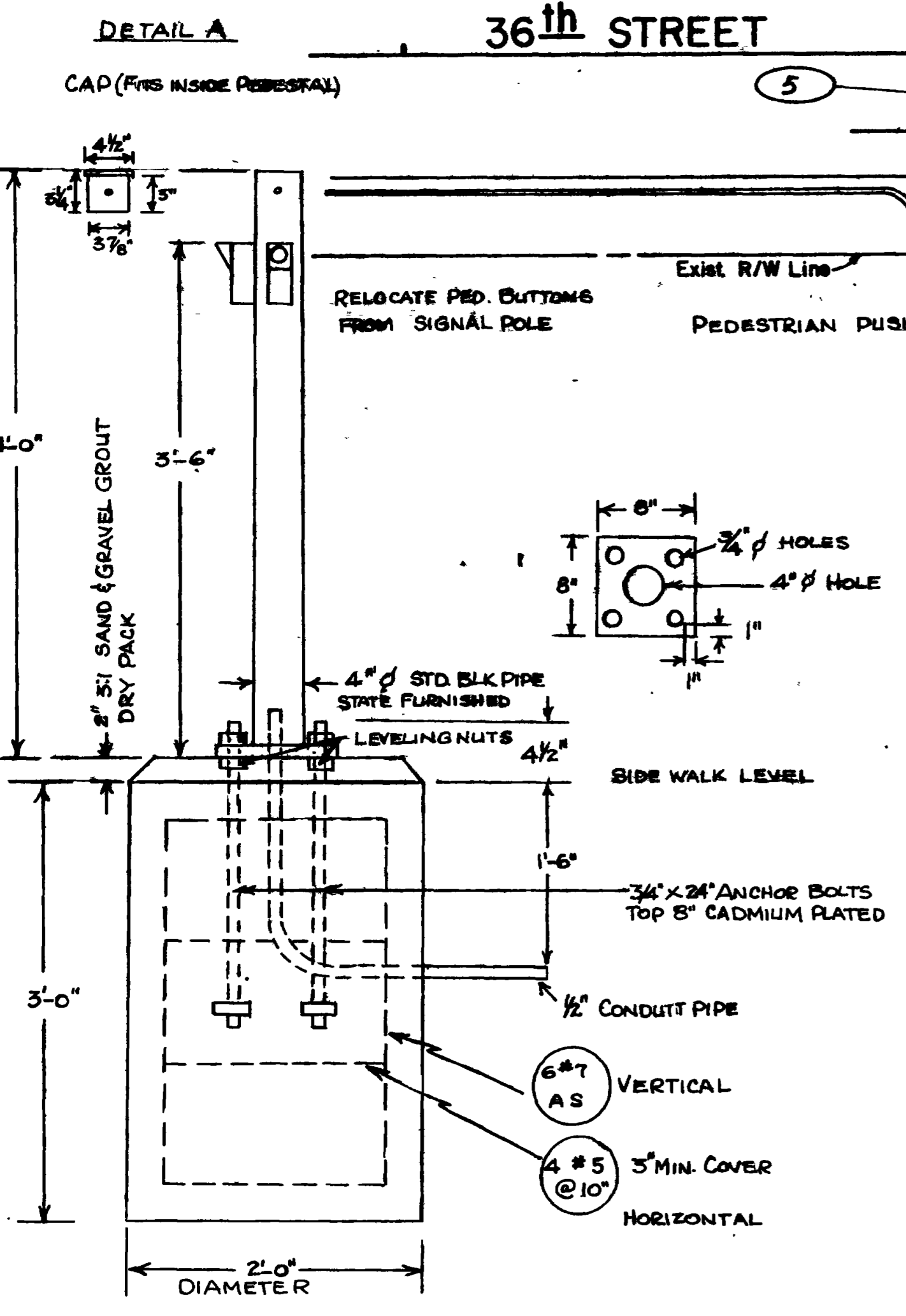


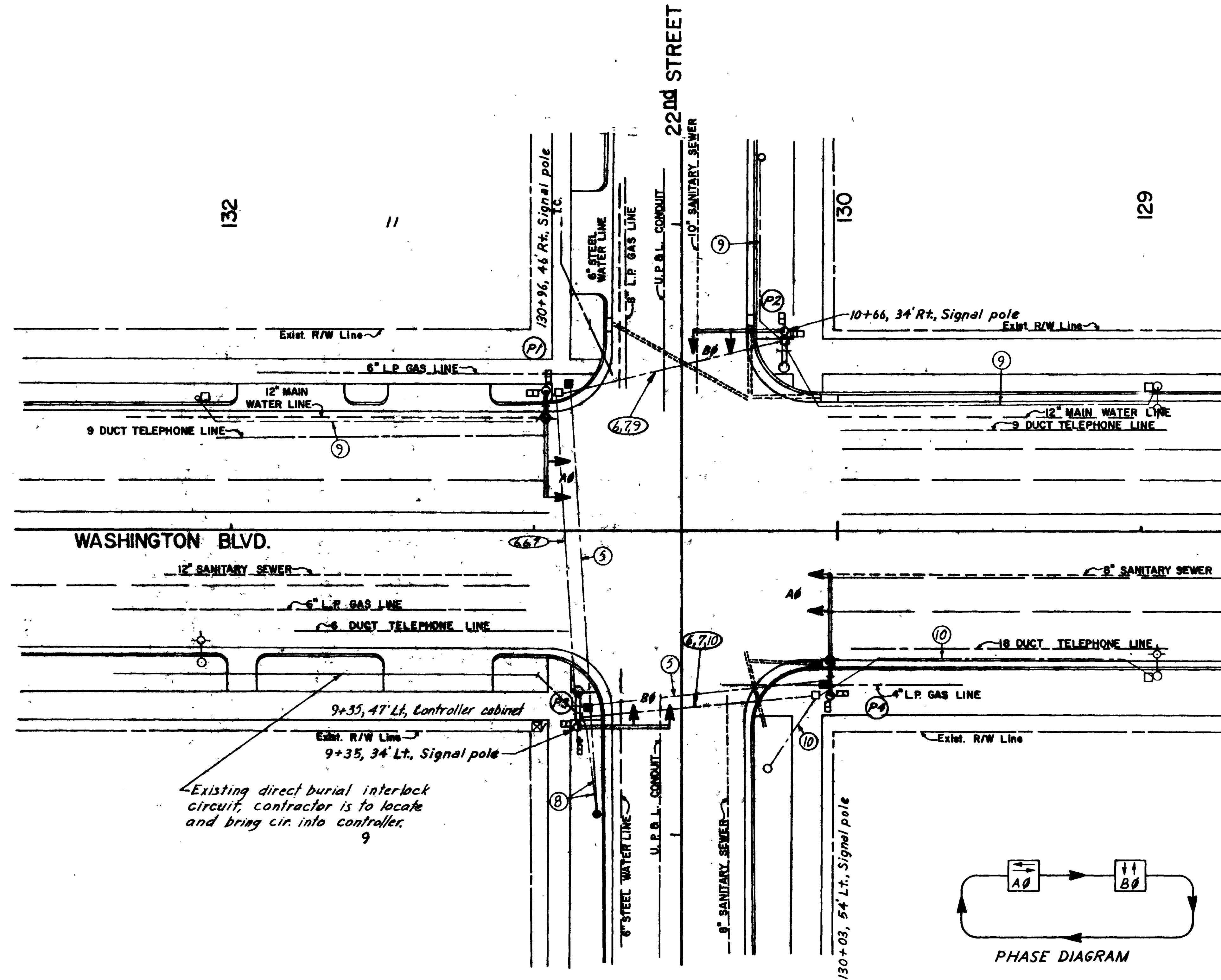
- NOTES:**
- Power Co. meter shall be located on power pole 7' above ground.
 - All circuits shall be placed in same trench where possible, but in separate conduit.
 - All pedestrian head assemblies shall be type II as shown on "Pedestrian Signal Assembly Detail" sheet.
 - All signal head assemblies shall be type I as shown on "Signal Mounting Detail" sheet unless otherwise noted.
 - Detector loops - use 1 conductor No. 14 cable, 6x12' loops use 2 turns.
 - Multiple street lighting circuit - use single conductor No. 6 in 1" galvanized rigid steel conduit.
 - Push button circuit - use 3 conductor No. 14 cable in same conduit as the detector circuit.
 - Detector circuits - use 2 conductor No. 14 shielded cable in a. 1", b. 1 1/2" galvanized rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
 - Signal circuit - use 4 conductor No. 14 cable in 2" galvanized rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
 - Pedestrian circuit - use 7 conductor No. 14 cable in same conduit as signal circuit. When signal circuit conduit is not available use 2" galvanized rigid steel conduit.
 - Power sources - use single conductor No. 6 & 8 wire in 1" galvanized rigid steel conduit. See Summary & Schedule.

- LEGEND:**
- (PI) Pole identification
 - ⊕ Mast arm signal pole
 - ⊕ Mast arm signal pole w/light pole extension & insulator
 - 12"-1Way-3Section signal head
 - ⊠ Traffic signal control cabinet
 - Type III Junction box
 - Type II Junction box
 - ⊠ Pedestrian signal with push button
 - Power source
 - Conduit run
 - ⊠ Type I junction box
 - --- PVC loop lead-in



Pole Schedule		UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY UTAH TRAFFIC DESIGN		
Pole Ident.	Mastarm Length	TRAFFIC SIGNALS		
P1	30'	36TH STREET AND QUINCY AVE.		
P2	30'	SITUATION PLAN		
P3	25'	DESIGNED	CHECK	REVIEW
P4	25'	DRAWN	CHECK	DESIGN
APPROVAL		DATE	DATE	DATE
RECOMM		DATE	DATE	DATE
APPROVED		DATE	DATE	DATE
PROJECT NUMBER		S-61		3 OF
REVISIONS		Weber COUNTY		





- NOTES:**
1. Power Co. meter shall be located on power pole 7' above ground.
 2. All circuits shall be placed in same trench where possible, but in separate conduit.
 3. All pedestrian head assemblies shall be type VI as shown on "Pedestrian Signal Assembly Detail" sheet.
 4. All signal head assemblies shall be type I as shown on "Signal Mounting Detail" sheet unless otherwise noted.
 5. Multiple street lighting circuit - use single conductor No. 6 in 1" galvanized rigid steel conduit.
 6. Signal circuit - use 4 conductor No. 14 cable in 2" galvanized rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
 7. Pedestrian circuit - use 7 conductor No. 14 cable in same conduit as signal circuit. When signal circuit conduit is not available use 2" galvanized rigid steel conduit.
 8. Power sources - use single conductor No. 6 & 8 wire in 1" galv. rigid steel conduit. See Summary & Schedule sheet.
 9. Fire alarm circuit - use 1" galvanized rigid steel conduit. Use signal circuit conduit when available.
 10. Interlock circuit - use 1 conductor No. 12 cable in 1" galvanized rigid steel conduit. Use signal circuit when available.
 11. NEW LUMINAIRES MOUNTED ON P2 AND P3

- LEGEND:**
- (P) Pole identification
 - ⊕ Mast arm signal pole
 - ⊕ Mast arm signal pole w/light pole extension + insulator
 - ➔ 12"-1 Way-3 section signal head
 - ⊠ Traffic signal control cabinet
 - Type III Junction box
 - Type IV Junction box
 - ⊞ Pedestrian signal
 - Power source
 - Conduit run
 - ⊠ Type V junction box
 - --- PVC. Loop Lead-in

Pole Schedule		UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY UTAH TRAFFIC DESIGN	
Pole Ident.	Mastarm Length	TRAFFIC SIGNALS	
P1	35'	WASHINGTON BLVD. & 22 ND STREET	
P2	30'	SITUATION PLAN	
P3	30'	DESIGNED <i>E. Herrera</i>	CHECK <i>PH 10-74</i>
P4	40'	DRAWN <i>M. Zupko</i>	CHECK <i>PH 10-74</i>
		QUANT. <i>W. Herrera</i>	CHECK <i>PH 10-74</i>
		APPROVAL <i>10-74</i>	REVIEW <i>11-20-74</i>
		RECOMM. <i>10-74</i>	DATE <i>10-74</i>
		APPROVED <i>10-74</i>	DATE <i>10-74</i>
		PROJECT NUMBER <i>445-0005(2)</i>	S-61
			4 OF 4

NO	BY	DATE	REMARKS
REVISIONS			

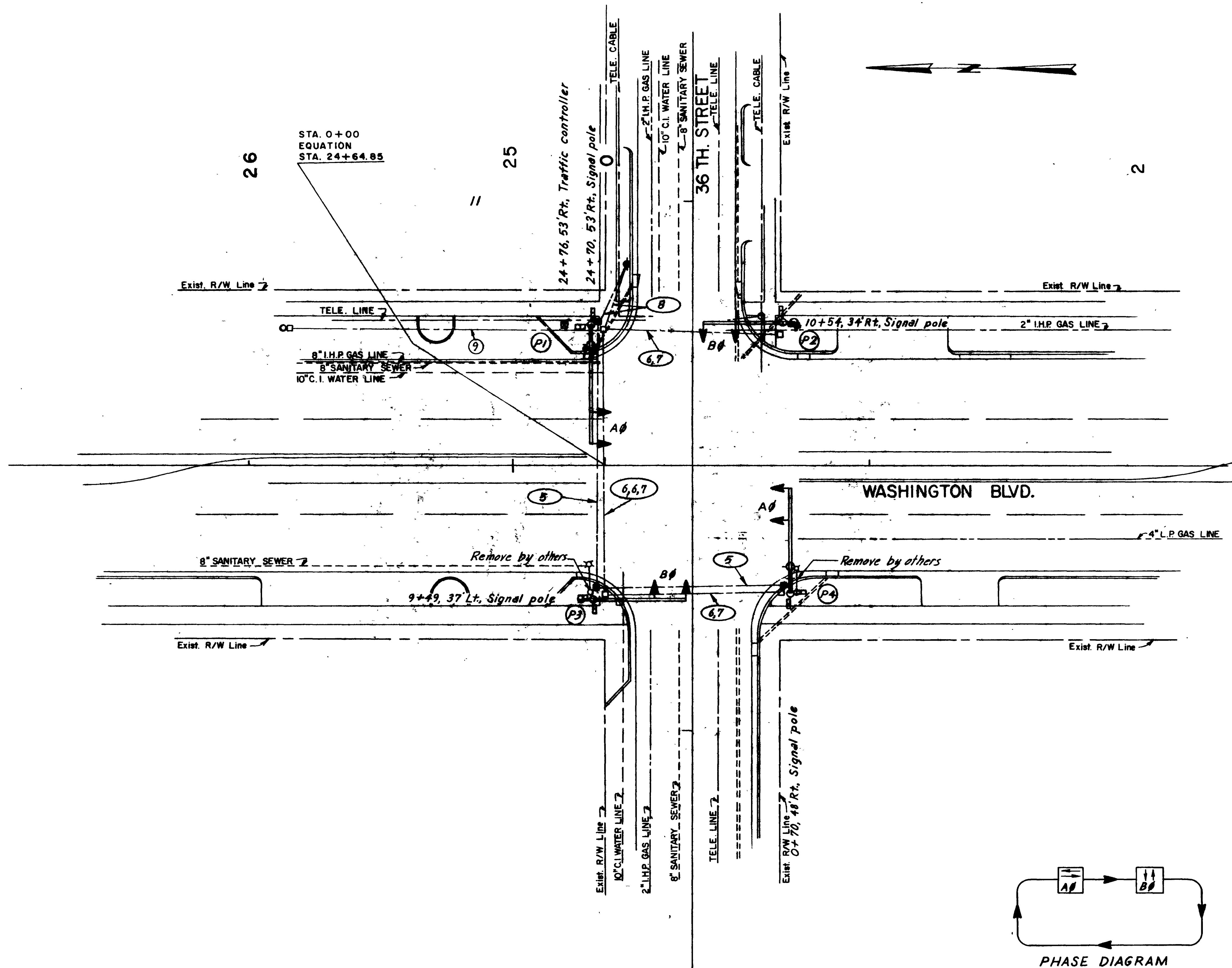
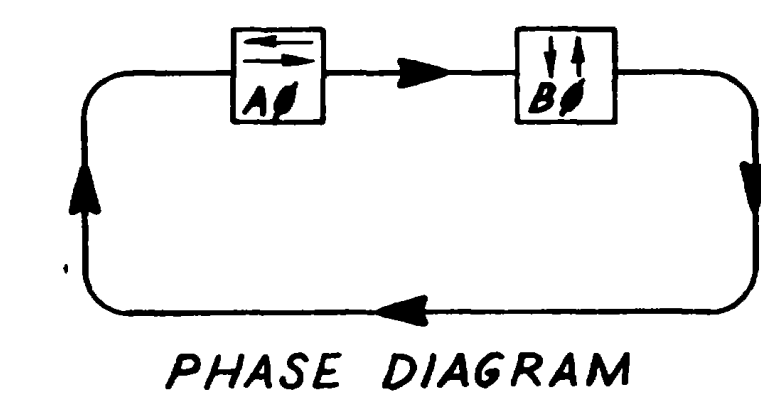
NOTES:

1. Power Co. meter shall be located on power pole 7' above ground.
2. All circuits shall be placed in same trench where possible, but in separate conduit.
3. All pedestrian head assemblies shall be type VI as shown on "Pedestrian Signal Assembly Detail" sheet.
4. All signal head assemblies shall be type I as shown on "Signal Mounting Detail" sheet unless otherwise noted.
5. Multiple street lighting circuit - use single conductor No. 6 in 1" galvanized rigid steel conduit.
6. Signal circuit - use 4 conductor No. 14 cable in 2" galvanized rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
7. Pedestrian circuit - use 7 conductor No. 14 cable in same conduit as signal circuit. When signal circuit conduit is not available use 2" galvanized rigid steel conduit.
8. Power sources - use single conductor No. 6 & No. 8 wire in 1" galvanized rigid steel conduit. See Summary & Schedule sheet.
9. Interlock circuit - use 1 conductor No. 12 cable in 1" galvanized rigid steel conduit.

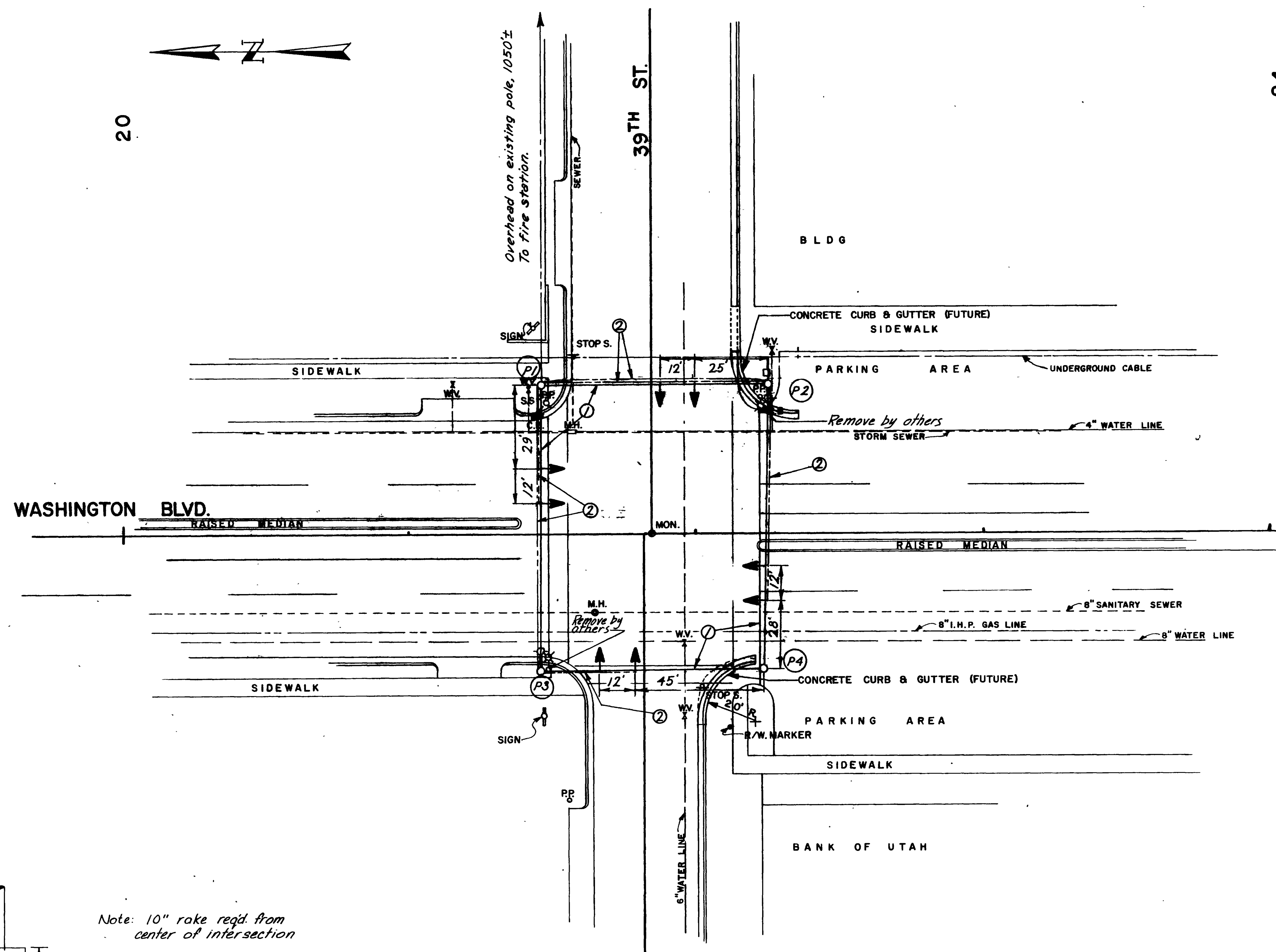
LEGEND:

- (P1) Pole identification
- ⊕ Mast arm signal pole
- ⊕ Mast arm signal pole w/lightpole extension & insulator
- ➔ 12"-1 Way - 3 section signal head
- ☒ Traffic signal control cabinet
- Type III Junction box
- Type IV Junction box
- ⊞ Pedestrian signal
- Power source
- Conduit run

Pole Schedule		UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DESIGN		
		TRAFFIC SIGNALS		
		36 TH ST. AND WASHINGTON BLVD.		
		SITUATION PLAN		
Pole Ident.	Mast arm Length	DESIGNED <i>V. Herzig</i>	CHECK <i>PH 10-76</i>	REVIEW
P1	45'	DRAWN <i>M. Zupko</i>	CHECK <i>PH 10-76</i>	DESIGN <i>PH 10-76</i>
P2	30'-35'	QUANT. <i>V. Herzig</i>	CHECK <i>PH 10-76</i>	S/R
P3	35'-40'	APPROVAL DATE <i>10-76</i>	GROUP <i>PH 10-76</i>	
P4	40'	APPROVED DATE <i>10-76</i>	TRAFFIC ENGINEER <i>V. Herzig</i>	WEBER COUNTY
PROJECT NUMBER <i>445-0005(2)</i>		S-61 5 OF 5		



NO	BY	DATE	REMARKS
REVISIONS			

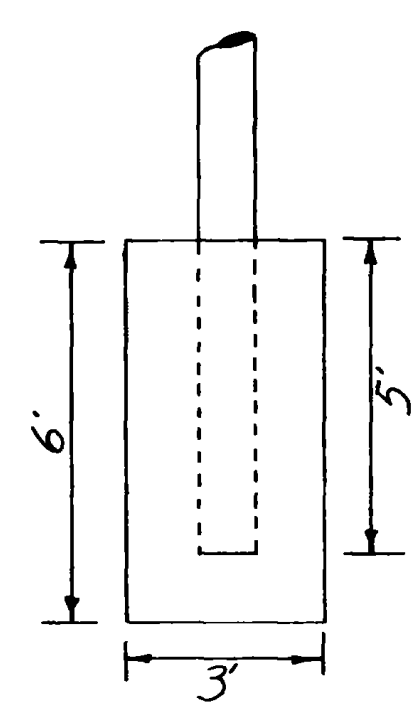


20

24

- NOTES:**
- Guy wire - use 5/16" cable.
 - Signal circuit - use 5 conductor No. 14 cable overhead.
 - Power source and push button actuation to be located in fire station.
 - New luminaire and bracket shall be installed on traffic signal poles.

- LEGEND:**
- (P) Pole identification
 - Steel traffic signal pole
 - ➔ 12"-1 way-2 section signal head
 - Type IX junction box
 - Conduit run
 - Overhead circuit
 - Steel traffic signal pole with luminaire

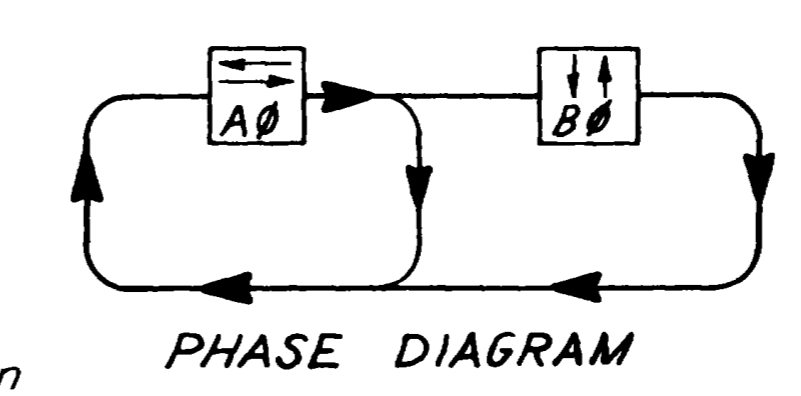
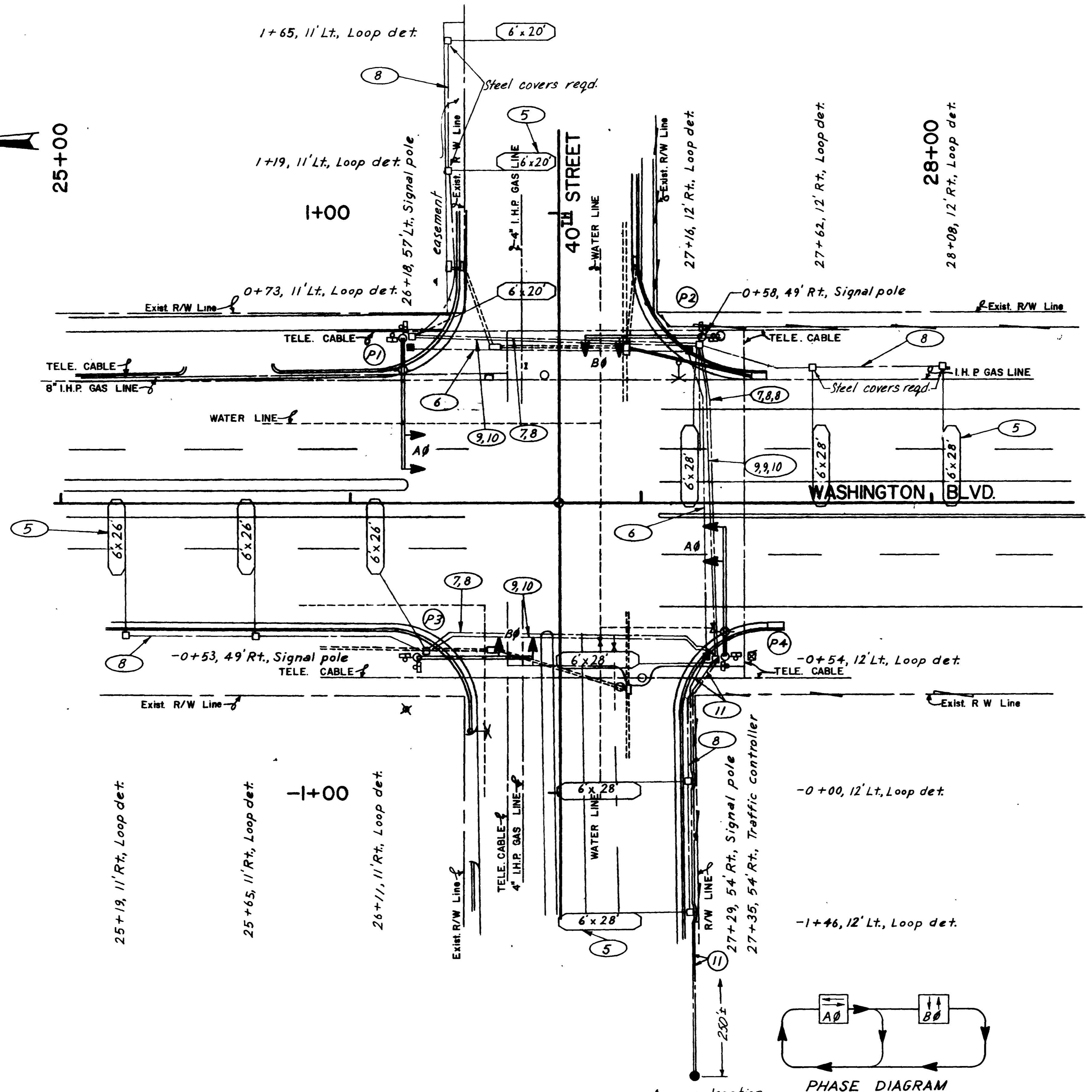
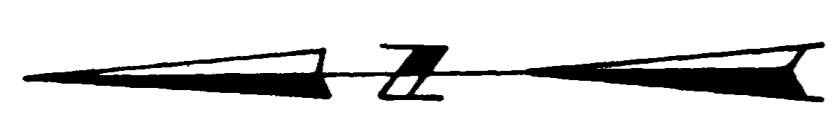


Note: 10" rake req'd. from center of intersection

Signal Pole Base Detail

Pole Schedule		UTAH STATE DEPARTMENT OF HIGHWAYS DIST. ONE - OGDEN, UTAH ROADWAY DESIGN			
Ident	length	WASHINGTON BLVD. & 39th ST. OGDEN PLAN SHEET			
P1	---	DESIGN	CHECK	PH	REVIEW
P2	---	DESIGN	CHECK	PH	REVIEW
P3	---	DESIGN	CHECK	PH	REVIEW
P4	---	DESIGN	CHECK	PH	REVIEW
		APPROVAL	DATE	DATE	DATE
		APPROVED	10-74	10-74	10-74
		PROJECT NUMBER	445-0005(2)	S-61	SHEET NO. 6

NO	BY	DATE	TYPE	REMARKS
REVISIONS				



NOTES:

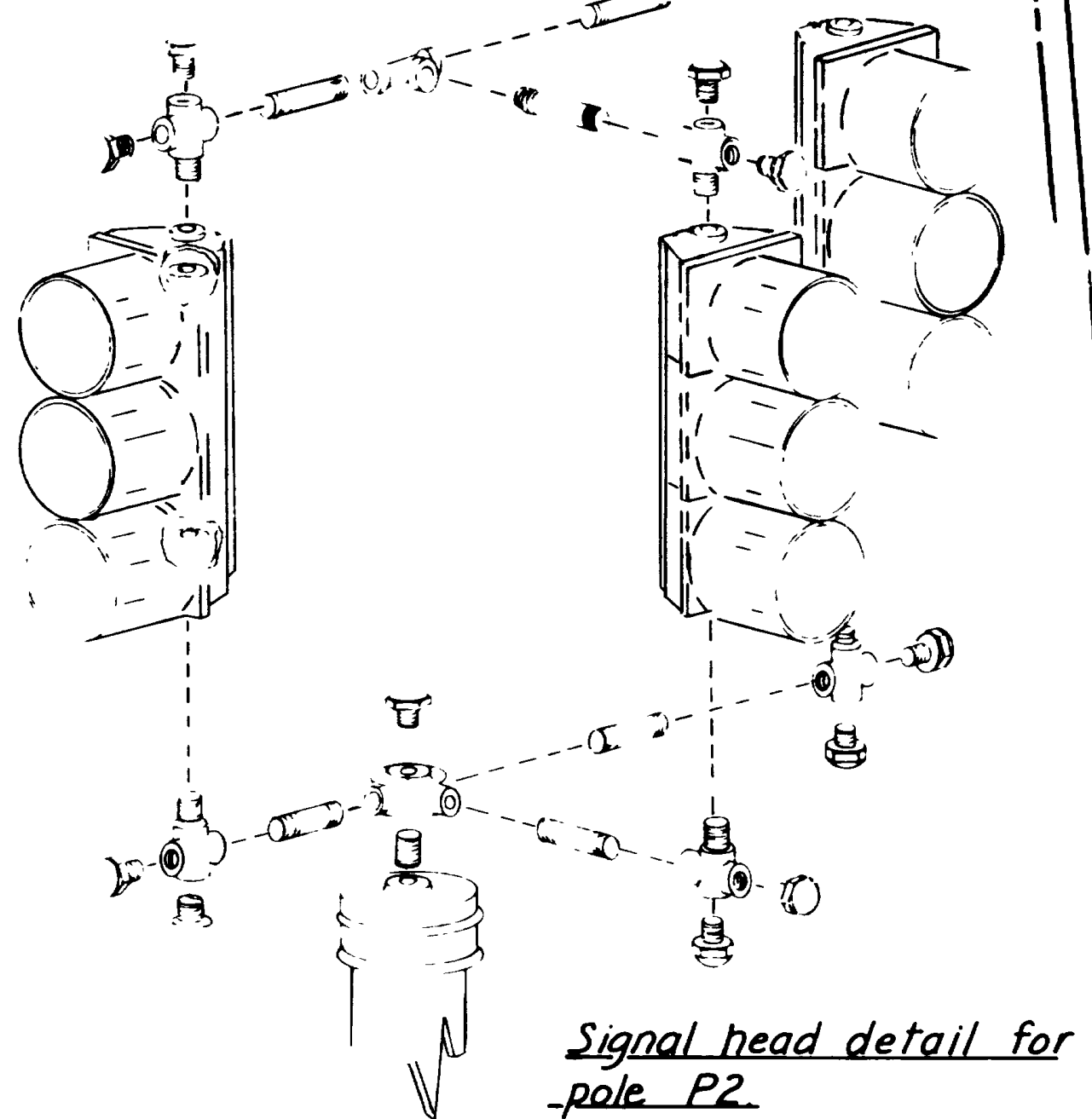
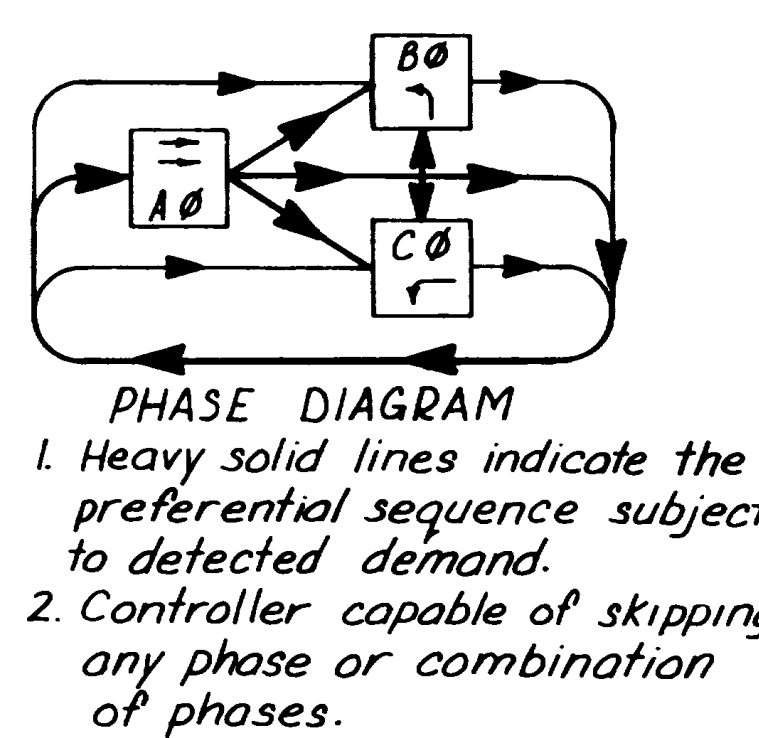
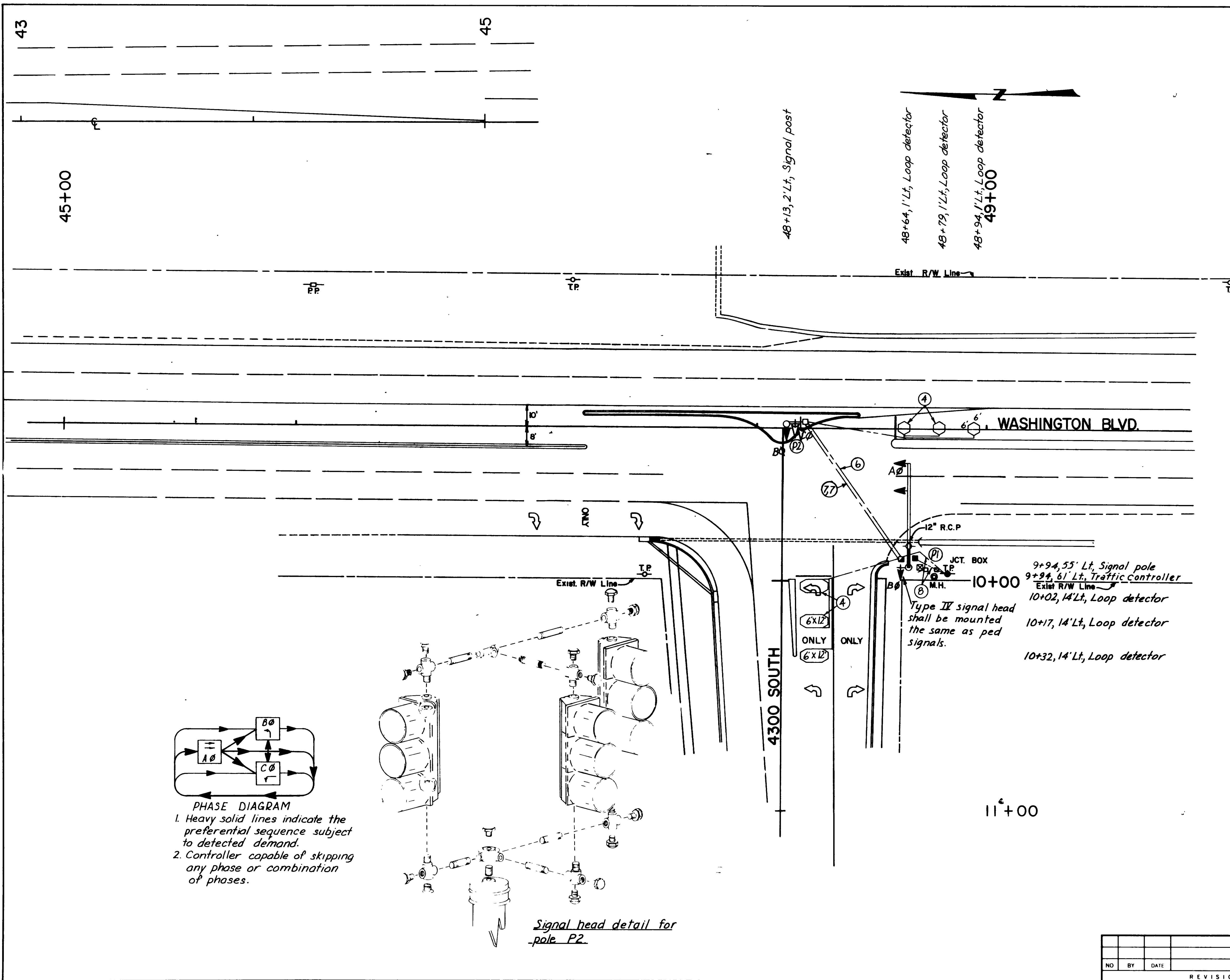
1. Power Co. meter shall be located on power pole 7' above ground.
2. All circuits shall be placed in same trench where possible, but in separate conduit.
3. All pedestrian head assemblies shall be type VI as shown on "Pedestrian Signal Assembly Detail" sheet.
4. All signal head assemblies shall be type I as shown on "Signal Mounting Detail" sheet unless otherwise noted.
5. Detector loops - use 1 conductor No. 14 cable, 2 turns.
6. Multiple street lighting circuit - use single conductor No. 6 in 1" galvanized rigid steel conduit.
7. Push button circuit - use 3 conductor No. 14 cable in same conduit as the detector circuit.
8. Detector circuits - use 2 conductor No. 14 shielded cable in 1" galvanized rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
9. Signal circuit - use 4 conductor No. 14 cable in 2" galvanized rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
10. Pedestrian circuit - use 7 conductor No. 14 cable in same conduit as signal circuit. When signal circuit conduit is not available use 2" galvanized rigid steel conduit.
11. Power sources - use single conductor No. 6 & 8 wire in 1" galvanized rigid steel conduit. See Summary & Schedule sheet.

LEGEND:

- (P1) Pole identification
- ☉ Mast arm signal pole
- ☉ Mast arm signal pole w/light pole extension & insulator
- ➔ 12"-1 Way - 3 section Signal head
- ☒ Traffic signal control cabinet
- Type III Junction box
- Type IV Junction box
- ☒ Pedestrian signal with push button
- Power source
- Conduit run
- ☒ Type V junction box
- PVC Loop Lead-in

Pole Schedule		UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DESIGN		
Ident.	Arm length	TRAFFIC SIGNALS		
P1	45'	40th ST. AND WASHINGTON BLVD.		
P2	40'-45'	SITUATION PLAN		
P3	40'	DESIGNED <i>K. Herring</i>	CHECK <i>PH 10-76</i>	REVIEW
P4	45'	DRAWN <i>M. Zupko</i>	CHECK <i>PH 10-76</i>	DESIGNED <i>PH 10-76</i>
APPROVAL		CHECK <i>PH 10-76</i>		R/W
RECOMM.		DATE		
APPROVED		DATE		WEBER COUNTY
PROJECT		TRAFFIC DESIGN ENGINEER		
NUMBER		S-61		1 OF

NO.	BY	DATE	REMARKS
REVISIONS			



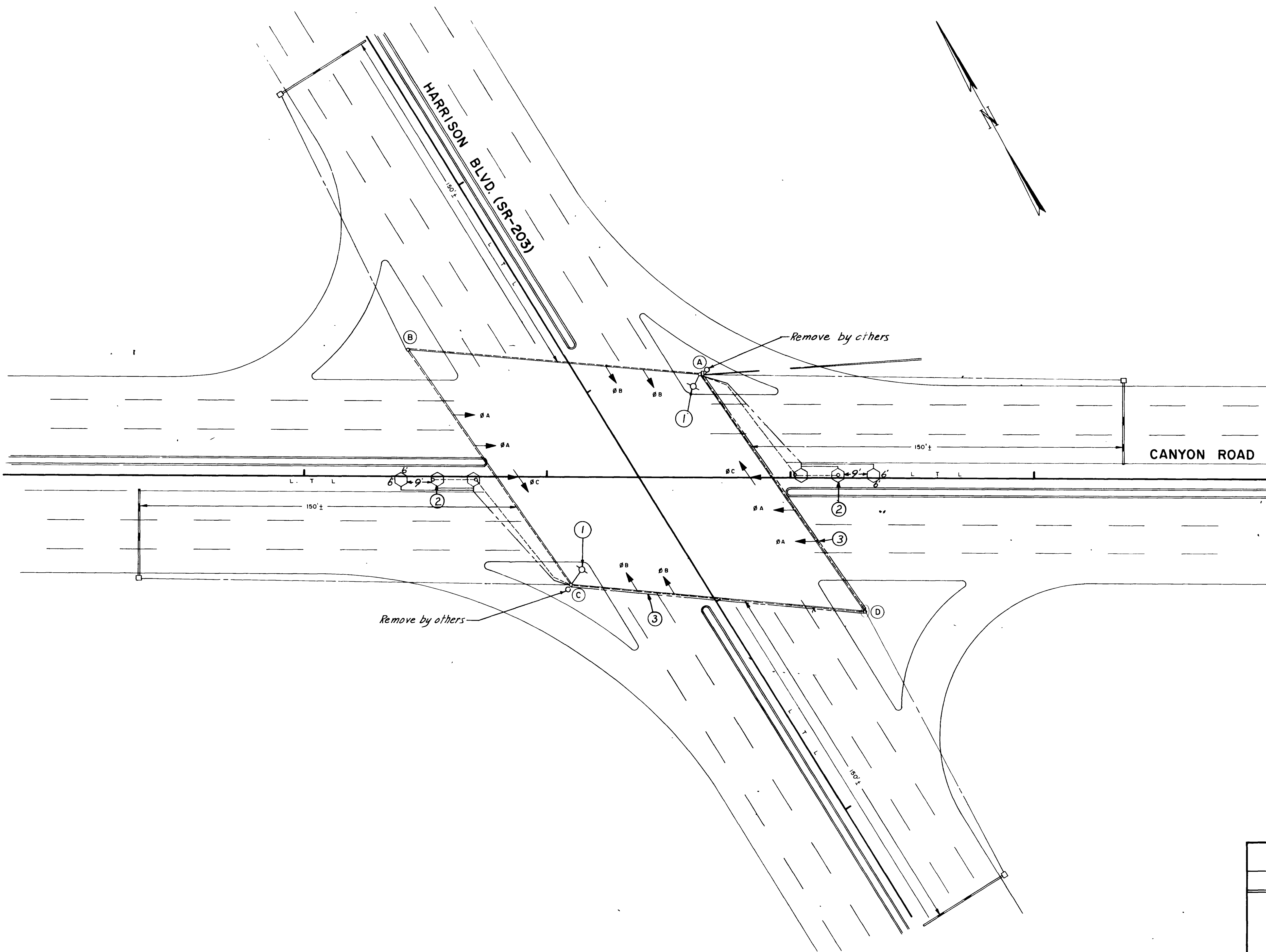
- Notes:**
1. Power Co. shall locate meter on power pole 7' above ground.
 2. All circuits shall be placed in same trench where possible but in separate conduit.
 3. All signal head assemblies shall be type I as shown on "Signal Mounting Detail" sheet, unless otherwise noted.
 4. Detector loops—use 1 conductor No. 14 cable. 6'x6' & 6'x12' loops use 3 turns
 5. Multiple street lighting circuit—use single conductor No. 6 wire in 1" galv. rigid steel conduit.
 6. Detector circuit—use 2 conductor No. 14 shielded cable in 1" galvanized rigid steel conduit.
 7. Signal circuit—use 4 conductor No. 14 cable in 2" galv. rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
 8. Power source—use single conductor No. 6 & No 8 wire in 1" galv. rigid steel conduit. See summary and schedule sheet
 9. PROGRAMED HEAD ON WEST ARM PEDESTAL REMOVED (DIRECTED BY F.H.W.A)

- Legend:**
- (PI) Pole schedule
 - ⊕ Mast arm signal pole
 - Post mounted signal pole
 - ⊕ Mast arm signal pole with light pole extension
 - ➔ 12"-1 way - 3 section signal head
 - ➔ 12"-1 way - 3 section signal head with left turn arrow. (Optically Programed)
 - ⊠ Traffic control signal cabinet
 - Type III junction box
 - Type IV junction box
 - ⊠ Type V junction box
 - ⊕ Pedestrian signal with push button
 - Power source
 - Conduit run
 - ⊕ P.V.C Loop Lead-in

Pole Schedule		UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DESIGN		
Ident	Arm length	Traffic Signals		
P1	45'	4300 South - Washington Blvd.		
P2		Situation Plan		
DESIGNED	PH 10-74	CHECK	PH 10-74	REVIEW
DRAWN	PH 10-74	CHECK	PH 10-74	DESIGN
QUANT.	PH 10-74	CHECK	PH 10-74	DATE
APPROVAL	DATE	DATE	DATE	DATE
RECOMM	DATE	DATE	DATE	DATE
APPROVED	10-74	DATE	DATE	DATE
PROJECT NUMBER	445-0025(2)	PROJECT	S-61	DATE
REVISIONS		DWG NO.	2 OF	

NO	BY	DATE	REMARKS

REVISIONS	DATE	BY

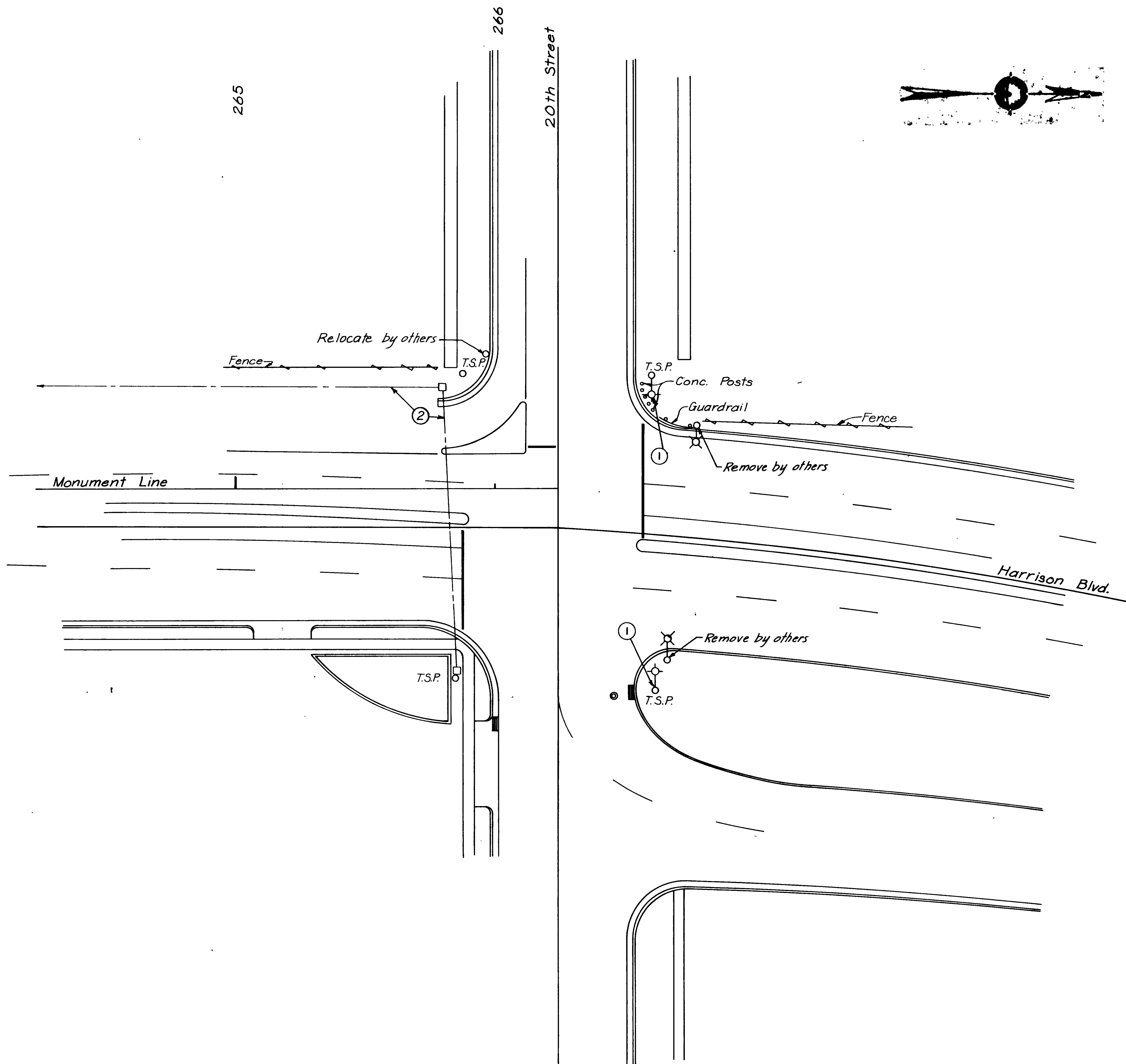


- Notes.
1. New 8' brackets required for street lights
 2. Detector loops - use 1 conductor No 14 cable
6'x6' loops use 3 turns.
 3. Detector circuit - use 2 conductor No.14 shielded cable overhead.

- Legend:
- Loop detector with PVC conduit lead-in.
 - Overhead detector circuit

UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DESIGN	
TRAFFIC SIGNALS	
HARRISON BLVD. & 12 th STREET SITUATION PLAN	
DESIGNED <i>K.F. Herzog</i>	PROJ. NO. <i>HHS-0005 (2)</i>
DRAWN <i>K.F. Herzog</i>	CITY <i>Ogden</i>
CHECKED <i>K.F. Herzog</i>	COUNTY <i>Weber</i>
APPROVAL RECOMM. <i>12-72</i>	DATE <i>12-72</i>
APPROVED <i>10-72</i>	DATE <i>10-72</i>
TRAFFIC ENGINEER	

NO.	BY	DATE	REMARKS



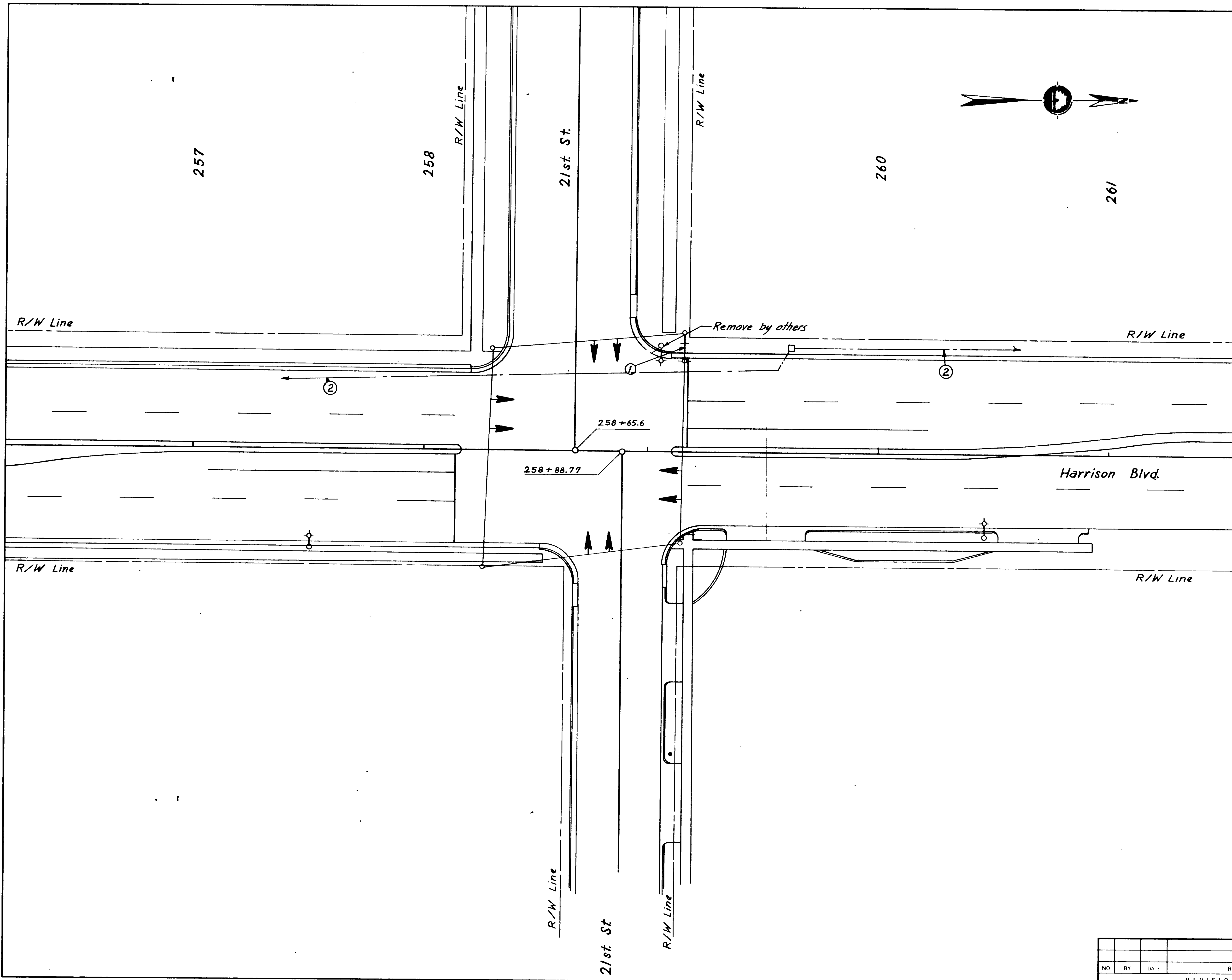
Notes

1. 8' bracket required for street light.
2. Interlock circuit - use 7 conductor No. 14 cable in 1/2" galvanized rigid steel conduit. Quantities for this item are found under interlock system.

Symbols:

- Type IV Junction box.
- Conduit run

TRAFFIC SIGNALS	
Harrison Blvd. & 20 th St.	
SITUATION PLAN	
K.F. Herzog	MHS-0005(2)
R.B. Curtis	Ogden
K.F. Herzog	Weber
10-72	<i>[Signature]</i>
10-72	<i>Pete J. Ballan</i>
S-61	12

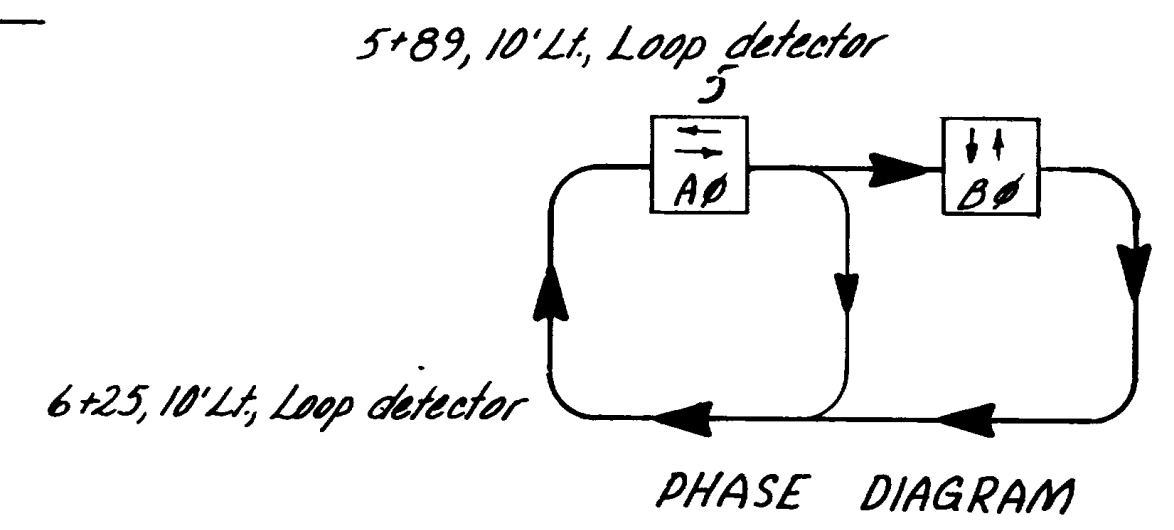
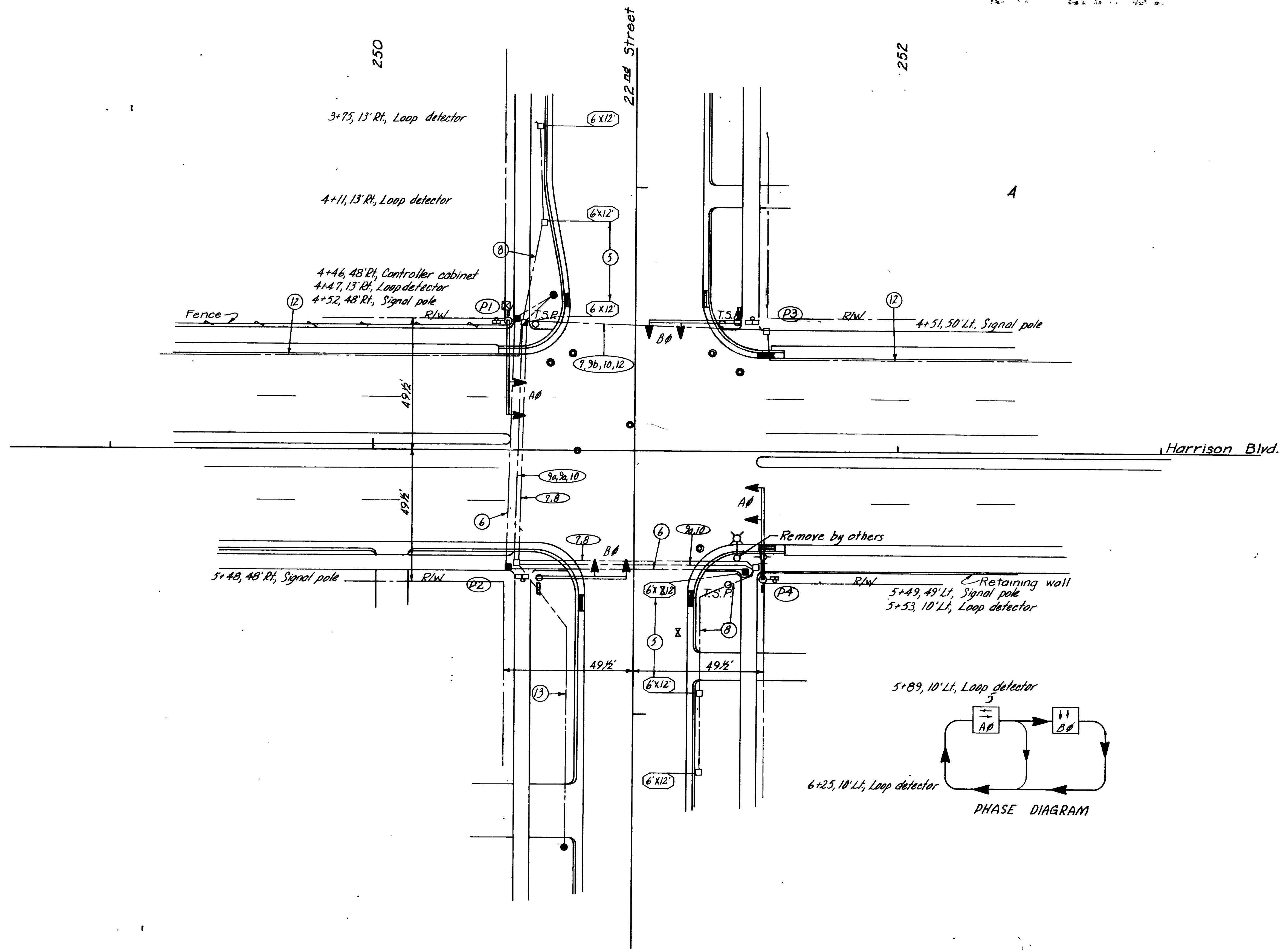


Notes:
 1. 8' bracket required for street lighting
 2. Interlock circuit - use 7 conductor No. 14 cable in 1/2" galvanized rigid steel conduit. Quantities for this item are found under interlock system.

Symbols:
 ○ Steel traffic signal pole.
 ○+ Steel traffic signal pole (existing) with light pole bracket and insulator.
 □ Type IV Junction box.
 --- Conduit run

UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY UTAH TRAFFIC DESIGN		
Traffic Signals Harrison Blvd. & 21st Street Situation Plan		
DESIGNED <i>KF Herzig</i>	CHECK <i>KF Herzig</i>	REVIEW
DRAWN <i>W. Z.</i>	CHECK <i>KF Herzig</i>	DATE <i>10-5-72</i>
QUANT. <i>KF Herzig</i>	CHECK <i>KF Herzig</i>	DATE
APPROVAL RECOMM. <i>10-72</i>	DATE <i>10-72</i>	TRAFFIC DESIGN ENGINEER
APPROVED <i>10-72</i>	DATE <i>10-72</i>	TRAFFIC DESIGN ENGINEER
PROJECT NUMBER <i>HHS-2005(2)</i>	DWG. <i>5-61</i>	COUNTY <i>Weber</i>
REVISIONS		13 OF

NO.	BY	DATE	REMARKS

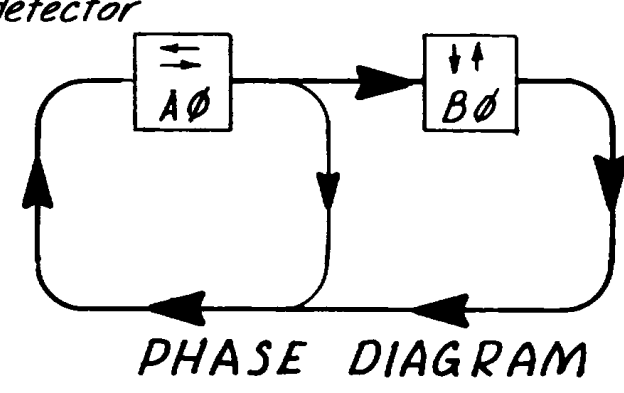
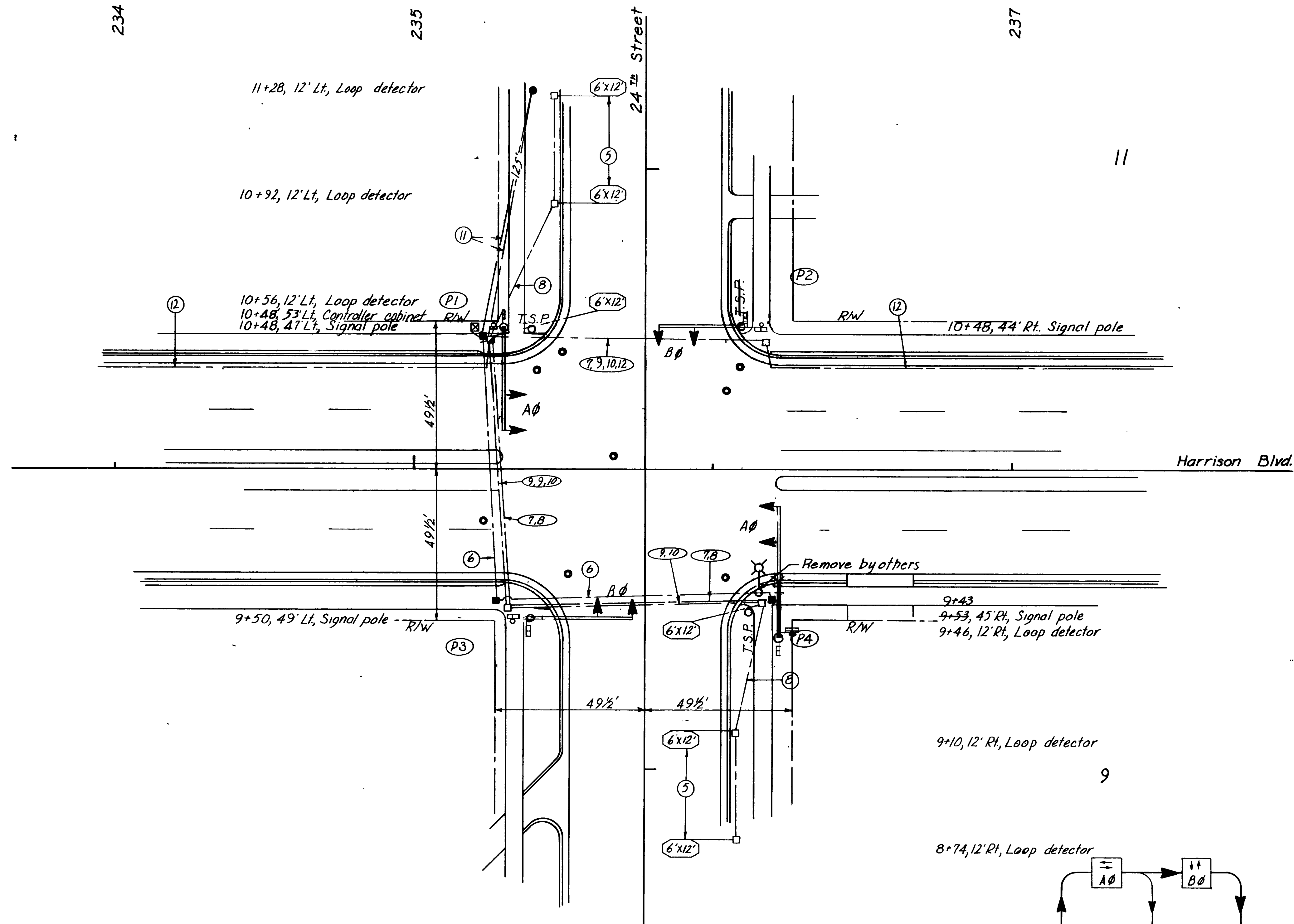


- Notes:**
1. Power Co shall locate meter on power pole 7' above ground
 2. All circuits shall be placed in same trench where possible but in separate conduit
 3. All pedestrian head assemblies shall be type VII as shown on "Pedestrian Signal Assembly Detail" sheet
 4. All signal head assemblies shall be type I as shown on "Signal Mounting Detail" sheet
 5. Detector loops - use 1 conductor No. 14 cable. 6'x12' loops use 3 turns.
 6. Multiple street lighting circuit - use single conductor No. 6 wire in 1" galvanized rigid steel conduit
 7. Push button circuit - use 3 conductor No. 14 cable in same conduit as signal circuit.
 8. Detector circuit - use 2 conductor No. 14 shielded cable in 1" galvanized rigid steel conduit.
 9. Signal circuit - use 4 conductor No. 14 cable in a 2" b. 2 1/2" galvanized rigid steel conduit. When more than one circuit is called for install circuits in same conduit.
 10. Pedestrian circuit - use 7 conductor No. 14 cable in same conduit as signal circuit
 11. Power source - use single conductor No. 6 & 8 wire in 1" galvanized rigid steel conduit. See Summary & Schedule sheet.
 12. Interlock circuit - use 7 conductor No. 14 cable in 1 1/2" galvanized rigid steel conduit. Use signal circuit conduit when available.
 13. Fire alarm circuit - use 1" galvanized rigid steel conduit.

- Symbols:**
- (P1) Pole identification
 - ⊕ Mast arm signal pole
 - ⊕ Mast arm signal pole with light pole extension and insulator
 - 12"-1 way-3 section signal head
 - ⊠ Traffic signal control cabinet
 - Type III junction box
 - Type IV junction box
 - ⊕ Pedestrian Signal head with push button
 - Power source
 - Conduit run
 - ⊠ Type V Junction box
 - ⊠ P.V.C. Loop lead-in

Pole Schedule		TRAFFIC SIGNALS	
Ident	Arm Length	SITUATION PLAN	
P1	35'	Harrison Blvd & 22nd St.	
P2	45'-35"	K.F. Herzog	HLS-0005(a)
P3	45'-35"	R.B. Curtis	Ogden
P4	35'	K.F. Herzog	Weber
		10-72	10-72
		10-72	10-72
		S-61	14

REV. 12/31/74 R/W

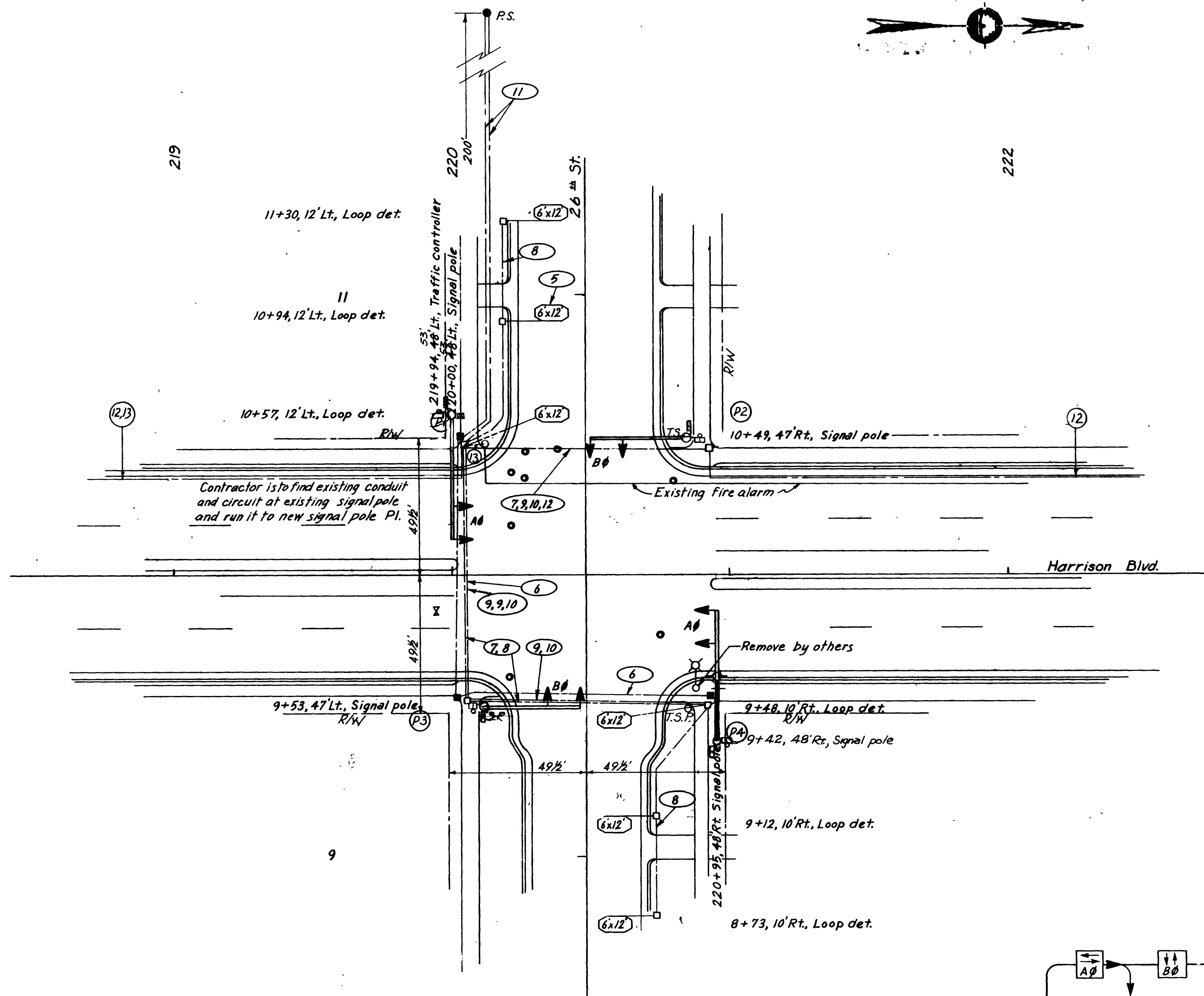


- Notes
- Power Co meter shall be located on power pole 7' above ground.
 - All circuits shall be placed in the same trench where possible but in separate conduit.
 - All pedestrian head assemblies shall be type VI as shown on "Pedestrian Signal Assembly Detail" sheet.
 - All signal head assemblies shall be type I as shown on "Signal Mounting Detail" sheet.
 - Detector loops—use 1 conductor No. 14 cable. 6'x12' loops use 3 turns
 - Multiple street lighting circuit—use single conductor No. 6 wire in 1" galvanized rigid steel conduit.
 - Push button circuit—use 3 conductor No. 14 cable in same conduit as detector circuit. When detector conduit not available use signal circuit conduit
 - Detector circuits—use 2 conductor No. 14 shielded cable in 1" galvanized rigid steel conduit.
 - Signal circuit—use 4 conductor No. 14 cable in 2" galvanized rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
 - Pedestrian circuit—use 7 conductor No. 14 cable in same conduit as signal circuit
 - Power source—use single conductor No. 6 & No. 8 wire in 1" galvanized rigid steel conduit. See Summary & Schedule sheet.
 - Interlock circuit—use 7 conductor No. 14 cable in 1 1/2" galvanized rigid steel conduit. Use signal circuit conduit when available.
 - Fire alarm circuit—use 1" galvanized rigid steel conduit.

- Legend:
- (P1) Pole identification
 - ⊕ Mast arm signal pole
 - ⊕ Mast arm signal pole with light pole extension & insulator.
 - ➔ 12"-1way-3 section signal head
 - ⊗ Traffic signal control cabinet
 - Type III junction box
 - Type IV junction box
 - ⊕ Pedestrian signal head with push button
 - Power source
 - Conduit run
 - Type V junction box
 - PVC Loop lead-in

Pole Schedule	Arm Length
P1	35'
P2	40-30'
P3	45-35'
P4	45-40'

TRAFFIC SIGNALS	
Harrison Blvd. & 24 St.	
SITUATION PLAN	
K.F. Herzog	HLS-0005(2)
R.B. Curtis	Ogden
K.F. Herzog	Weber
10-72	10-72
10-72	10-72



219

222

11+30, 12' Lt., Loop det.

11
10+94, 12' Lt., Loop det.

10+57, 12' Lt., Loop det.

Contractor is to find existing conduit and circuit at existing signal pole and run it to new signal pole P1.

9+53, 47' Lt., Signal pole

9+48, 10' Rt., Loop det.

9+42, 48' Rt., Signal pole

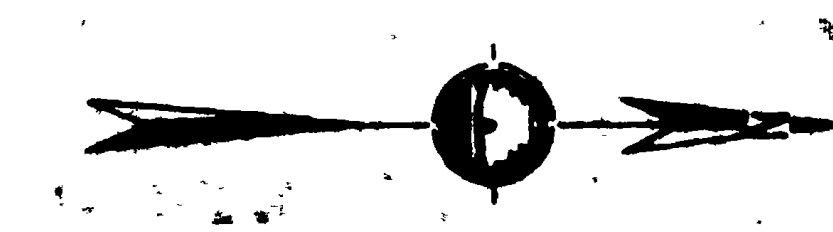
9+12, 10' Rt., Loop det.

8+73, 10' Rt., Loop det.

219+94, 48' Lt., Traffic controller
220+00, 48' Lt., Signal pole

10+49, 47' Rt., Signal pole

220+95, 48' Rt., Signal pole

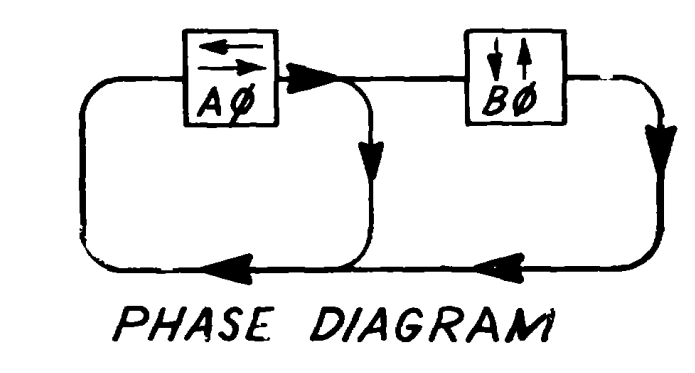


Notes

1. Power Co. meter shall be located on power pole 7' above ground.
2. All circuits shall be placed in same trench where possible, but in separate conduit.
3. All pedestrian head assemblies shall be type VI as shown on "Pedestrian Signal Assembly Detail" sheet.
4. All signal head assemblies shall be type I as shown on "Signal Mounting Detail" sheet unless otherwise noted.
5. Detector loops - use 1 conductor No. 14 cable, 6x12' loops use 3 turns, all other loops use 2 turns.
6. Multiple street lighting circuit - use single conductor No. 6 in 1" galvanized rigid steel conduit.
7. Push button circuit - use 3 conductor No. 14 cable in same conduit as the detector circuit.
8. Detector circuits - use 2 conductor No. 14 shielded cable in 1" galv. rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
9. Signal circuit - use 4 conductor No. 14 cable in 2" galvanized rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
10. Pedestrian circuit - use 7 conductor No. 14 cable in same conduit as signal circuits. When signal circuit conduit is not available use 2" galvanized rigid steel conduit.
11. Power sources - use single conductor No. 6 & No. 8 wire in 1" galv. rigid steel conduit See Summary & Schedule sheet.
12. Interlock circuit - use 7 conductor No. 14 cable in 1-1/2" galvanized rigid steel conduit, use signal circuit conduit when available.
13. Fire alarm circuit - use interlock conduit.

LEGEND:

- (P1) Pole identification
- ⊕ Mast arm signal pole
- ⊕ Mast arm signal pole w/light pole extension & insulator
- ➔ 12"-1 Way-3 Section signal head
- ☒ Traffic signal control cabinet
- Type III Junction box
- Type IV Junction box
- Type V Junction box
- ⊕ Pedestrian signal with push button
- Power Source
- Conduit run
- PVC Loop Lead-in



Pole Schedule

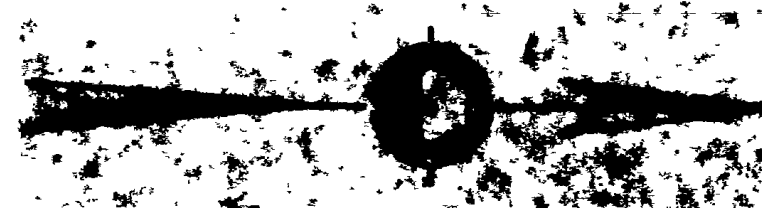
Pole Ident.	Mast arm Length		
P1	35'-40'		
P2	45'-35'		
P3	45'-35'		
P4	35'-40'		

TRAFFIC SIGNALS
Harrison Blvd. & 26th St.
SITUATION PLAN

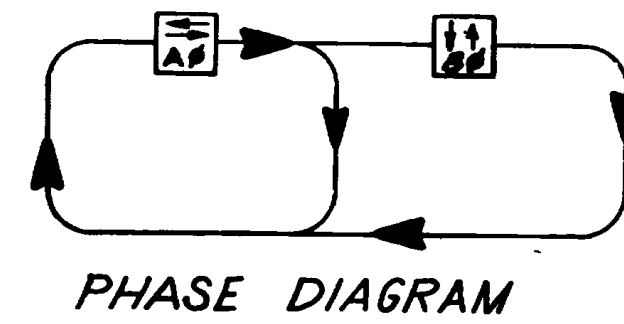
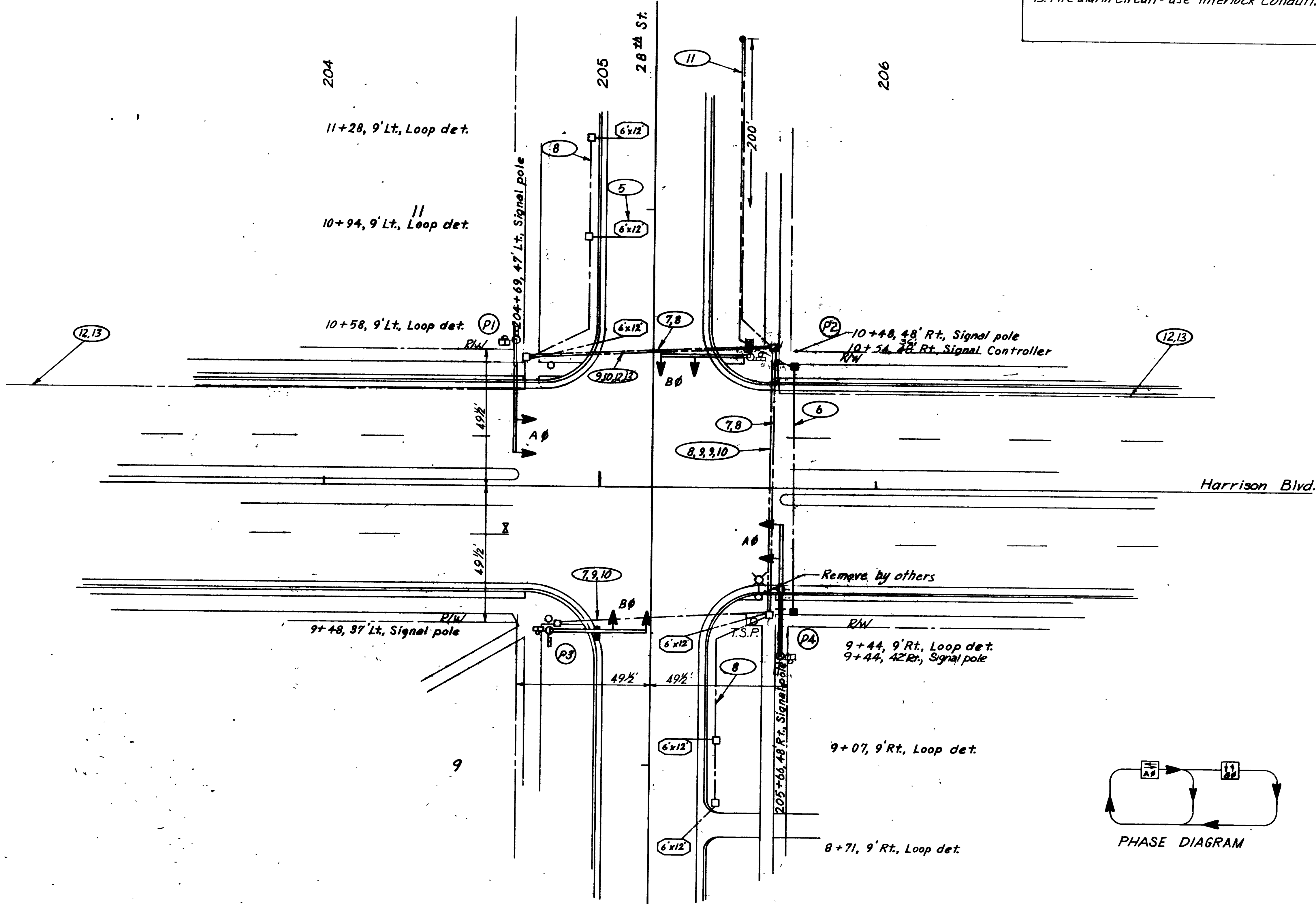
K.E. Herzog
R.B. Curtis
K.E. Herzog
10-72

HHS-0005(2)
Ogden
Weber
10-72
Peter Holman

K.E.H. 12/1/74 R.W.



Notes: (cont)
 13. Fire alarm circuit- use interlock conduit.



1. Power Co. meter shall be located on power pole 7' above ground.
2. All circuits shall be placed in same trench where possible, but in separate conduit.
3. All pedestrian head assemblies shall be type VI as shown on "Pedestrian Signal Assembly Detail" sheet.
4. All signal head assemblies shall be type I as shown on "Signal Mounting Detail" sheet unless otherwise noted.
5. Detector loops - use 1 conductor No. 14 cable 6x6' loops use 3 turns, all other loops use 2 turns.
6. Multiple street lighting circuit-use single conductor No. 6 in 1" galvanized rigid steel conduit.
7. Push button circuit - use 3 conductor No. 14 cable in same conduit as the detector circuit.
8. Detector circuits-use 2 conductor No. 14 shielded cable in 1" galvanized rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
9. Signal circuit - use 4 conductor No. 14 cable in 2" galvanized rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
10. Pedestrian circuit - use 7 conductor No. 14 cable in same conduit as signal circuit. When signal circuit conduit is not available use 2" galvanized rigid steel conduit.
11. Power sources - use single conductor No. 6 & No. 8 wire in 1" galvanized rigid steel conduit.
12. Interlock circuit - use 7 conductor No. 14 cable in 1 1/2" galvanized rigid steel conduit. Use signal circuit conduit when available.

LEGEND:

- (P) Pole identification
- ⊕ Mast arm signal pole
- ⊕ Mast arm signal pole w/light pole extension and insulator
- ➔ 12"-1Way-3 Section signal head
- ☒ Traffic signal control cabinet
- Type III Junction box
- Type IV Junction box
- ⊕ Pedestrian signal with push button
- Power source
- Conduit run
- ▣ Type V Junction box
- ◊ P.V.C Loop Lead-in

Pole Schedule		TRAFFIC SIGNALS	
Pole Ident.	Mast arm Length	SITUATION PLAN	
P1	35'-40'	Harrison Blvd. & 28th St.	
P2	45'-35'		
P3	35'		
P4	35'-40'		

K.F. Herzog	HHS-0005(2)
R.B. Curtis	Ogden
K.F. Herzog	Weber
10-72	Rich Blaney
10-72	Pete Holtan

△ K.F.H. 12/17/74 R/W

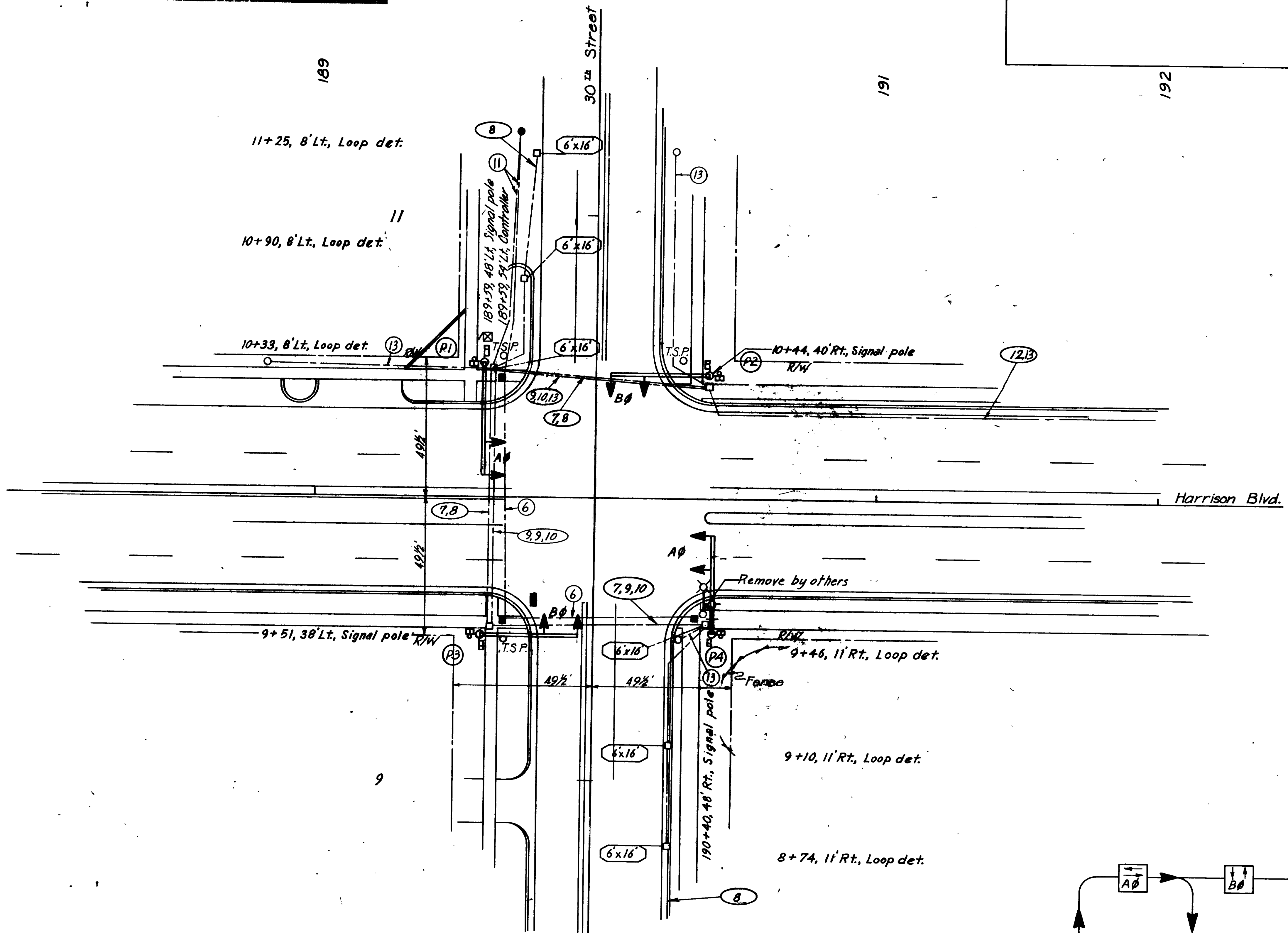
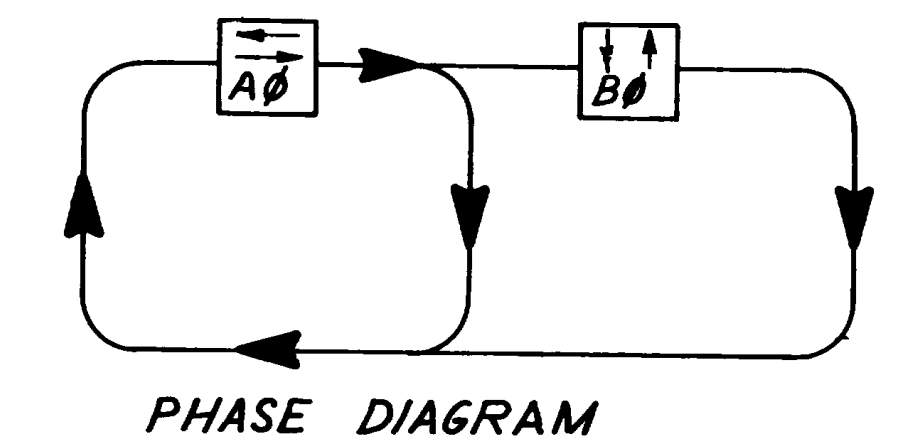
Notes: (Cont)
 13. Fire alarm circuit—use interlock conduit

1. Power Co. meter shall be located on power pole 7' above ground.
2. All circuits shall be placed in same trench where possible, but in separate conduit.
3. All pedestrian head assemblies shall be type VI as shown on "Pedestrian Signal Assembly Detail" sheet.
4. All signal head assemblies shall be type I as shown on "Signal Mounting Detail" sheet unless otherwise noted.
5. Detector loops—use 1 conductor No. 14 cable, 6'x6' loops use 3 turns, all other loops use 2 turns.
6. Multiple street lighting circuit—use single conductor No. 6 in 1" galvanized rigid steel conduit.
7. Push button circuit—use 3 conductor No. 14 cable in same conduit as the detector circuit.
8. Detector circuits—use 2 conductor No. 14 shielded cable in 1" galvanized rigid steel conduit. When more than 1 circuit is called for install circuits in the same conduit.
9. Signal circuit—use 4 conductor No. 14 cable in 2" galvanized rigid steel conduit. When more than 1 circuit is called for install circuits in same conduit.
10. Pedestrian circuit—use 7 conductor No. 14 cable in same conduit as signal circuit. When signal circuit conduit is not available use 2" galvanized rigid steel conduit.
11. Power sources—use single conductor No. 6 & No. 8 wire in 1" galv. rigid steel conduit. See Summary & Schedule sheet
12. Interlock circuit—use 7 conductor No. 14 cable in 1-1/2" galvanized rigid steel conduit. Use signal circuit conduit when available.

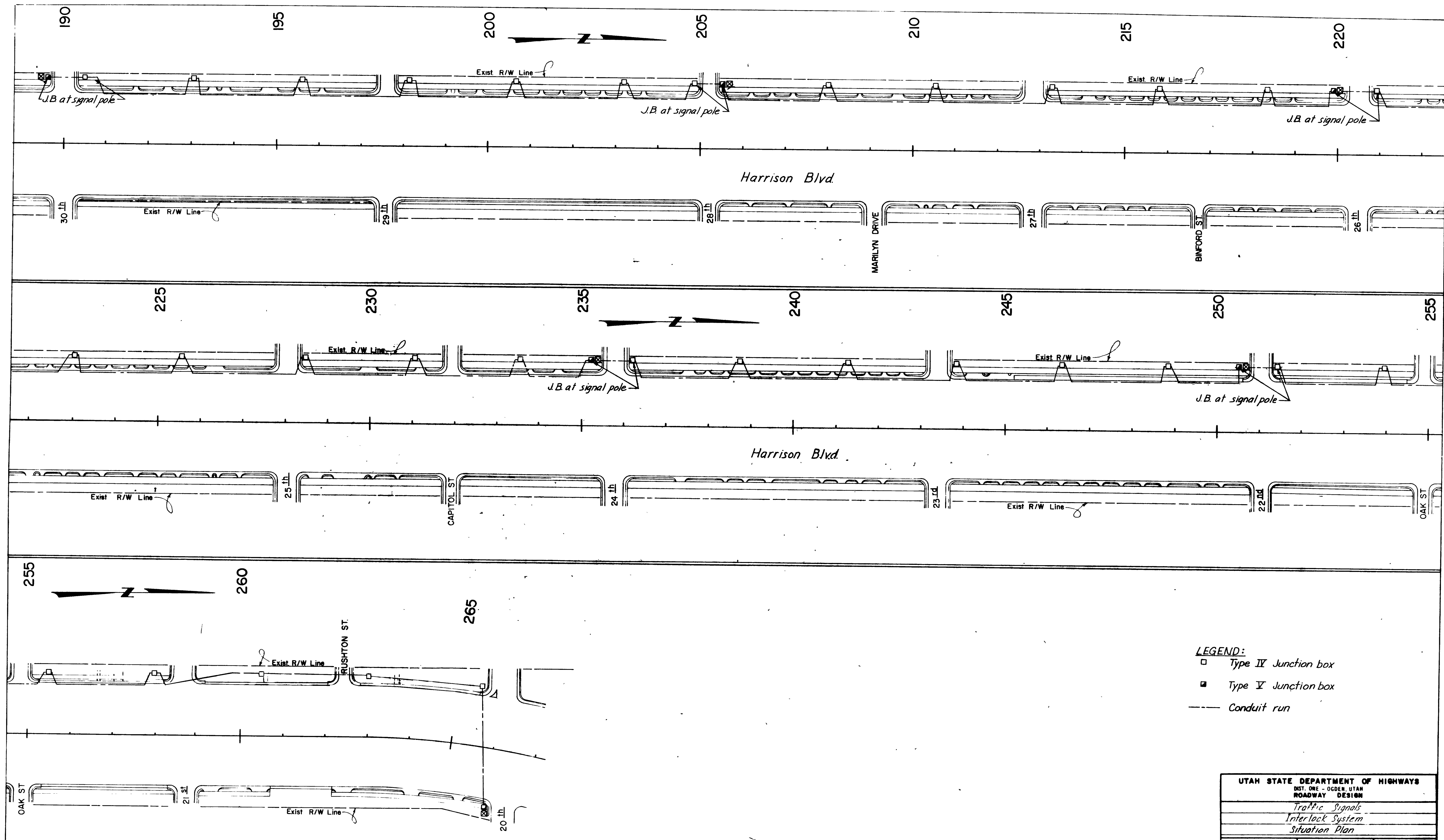
- LEGEND:**
- (P1) Pole identification
 - Mast arm signal pole
 - Mast arm signal pole w/ light pole extension and insulator
 - 12"-1 Way-3 section signal head
 - ☒ Traffic signal control cabinet
 - Type III Junction box
 - Type IV Junction box
 - ⊕ Pedestrian signal with push button
 - Power source
 - Conduit run
 - Type V Junction box
 - P.V.C. Loop Lead-in

Pole Schedule	
Pole Ident.	Mast arm Length
P1	40'
P2	35'
P3	35'
P4	35'

TRAFFIC SIGNALS
 Harrison Blvd & 30th St.
 SITUATION PLAN
 K.F. Herzog HHS-0005(2)
 R.B. Curns Ogden
 K.F. Herzog Weber
 10-72
 10-72
Pete Bolton



K.F.H. 12/5/74. R/W



LEGEND:
 □ Type IV Junction box
 ■ Type V Junction box
 --- Conduit run

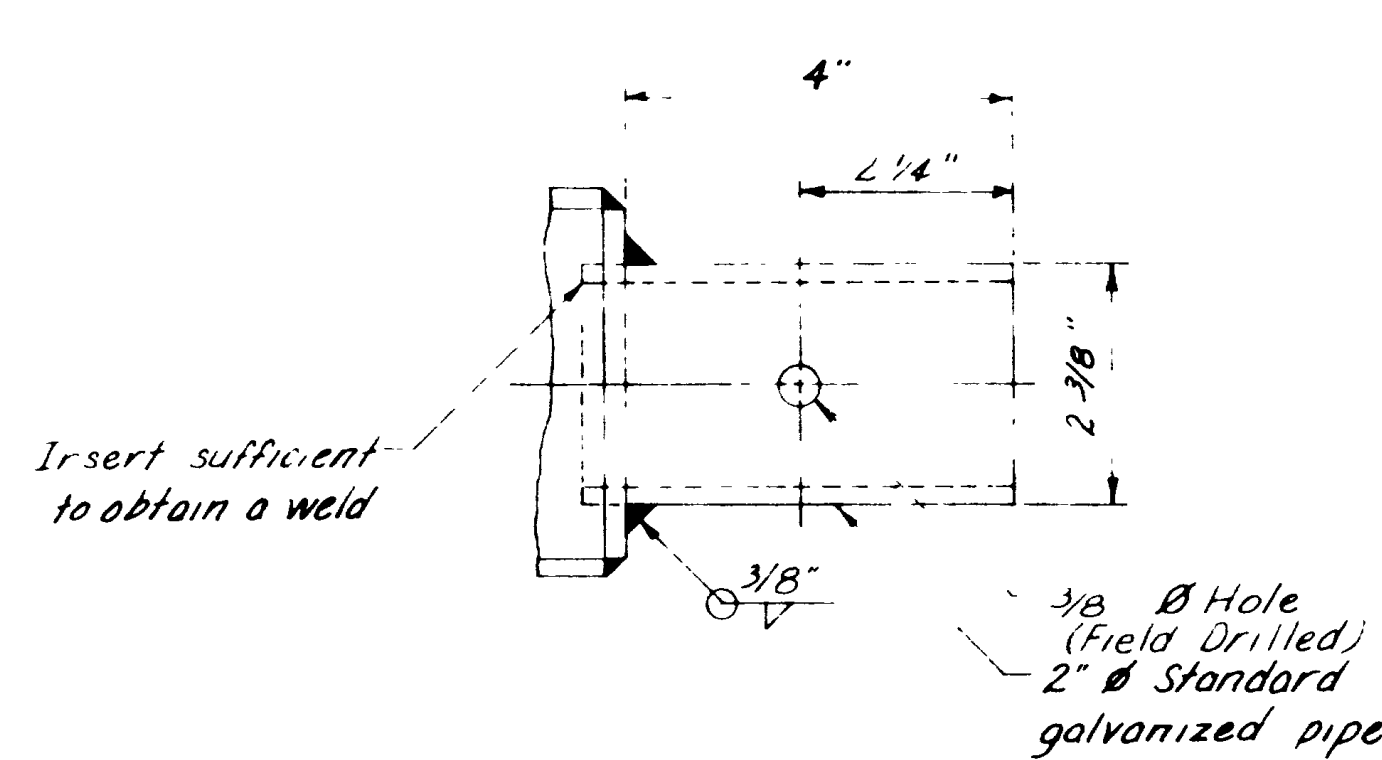
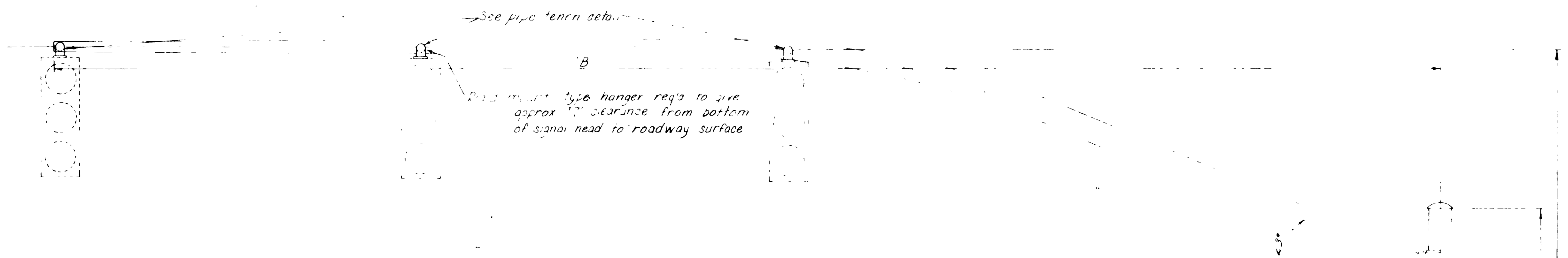
UTAH STATE DEPARTMENT OF HIGHWAYS			
DST. ONE - OGDEN, UTAH			
ROADWAY DESIGN			
Traffic Signals			
Interlock System			
Situation Plan			
DESIGN	B.H.S.	8/73	CHECK 10-74 PH
DRAWN	M.D.H.	8/73	CHECK 10-74 PH
QUANT.	REF	10-74	CHECK 10-74
APPROVAL	DATE	10-74	PH
APPROVED	DATE	10-74	PH
PROJECT NUMBER	HHS-0005(2)		S-61
			SHEET NO 19

NO	BY	DATE	TYPE	REMARKS
REVISIONS				

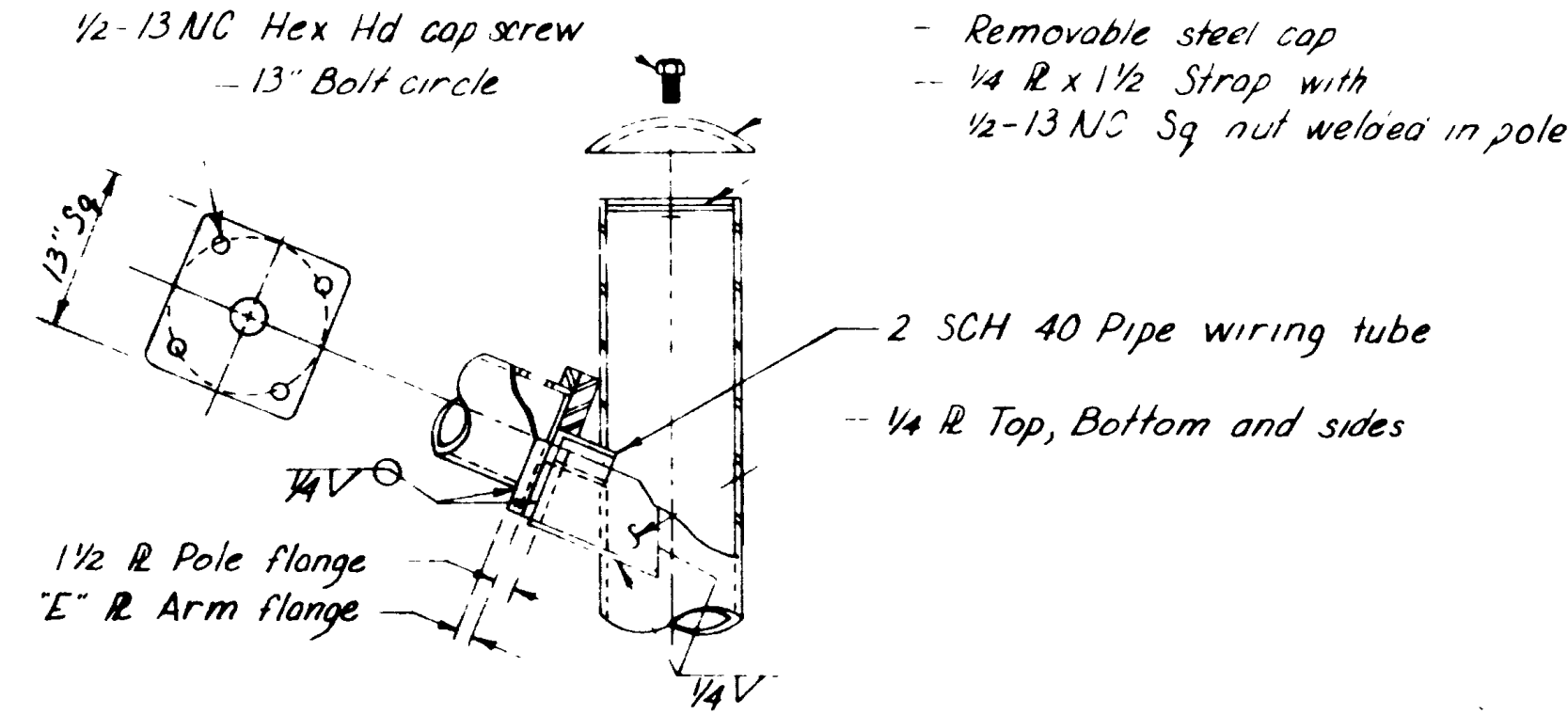
POLE			SIGNAL ARM				
Top OD	Bottom OD	Min Wall Thickness	B	End OD	Base OD	Min Wall Thickness	E
4 23/32	12 1/8	250	25'-0"	3 3/8	7 3/16	125	1 1/2 R
			30'-0"	3 3/8	8"	188	
			35'-0"	3 3/8	8 1/16	250	
			40'-0"	3 3/8	8 3/8	250	
9 23/32	12 1/8	250	45'-0"	3 3/8	10 1/16	250	1 1/2 R

General Notes

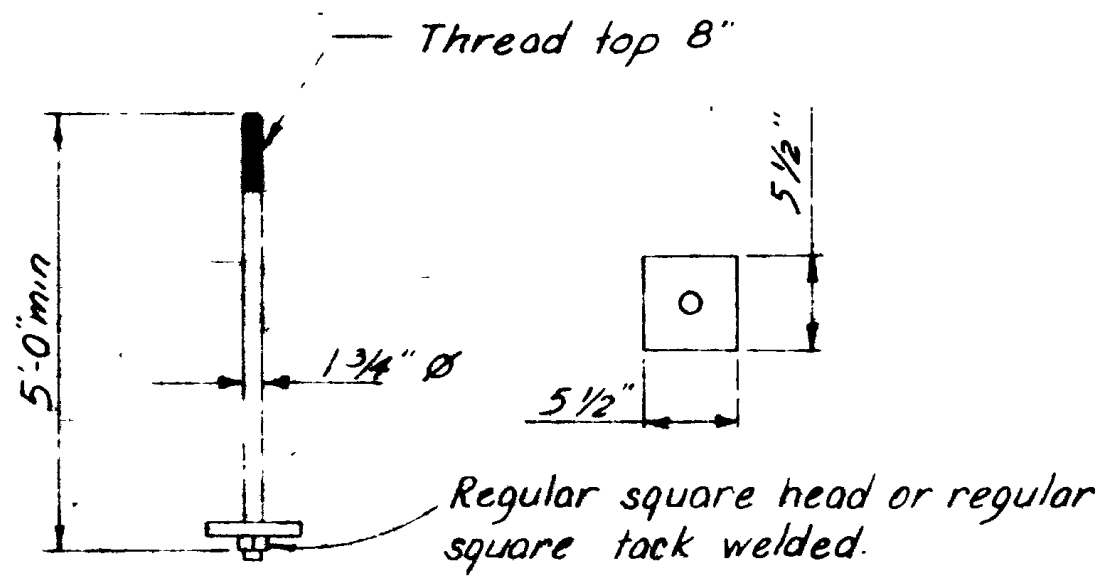
- FOUNDATION**—All foundations shall be cast in place against undisturbed earth. Welding of reinforcing steel prohibited.
- ANCHOR Bolts**—Anchor bolt shall be 1 3/4" ϕ x 5'-0" minimum with top 6" threaded and shall conform to the requirements of ASTM A307 with regular square head or regular square nut tack welded and heavy hex nuts. Exposed portions of anchor bolts shall be cadmium plated in accordance with ASTM A165 Type NS. Anchor bolts shall not be welded to reinforcing steel.
- SHOP DRAWINGS**—Shop drawings are required in accordance with section 510.04 of the State of Utah "Standard Specifications for Road and Bridge Construction," 1970.



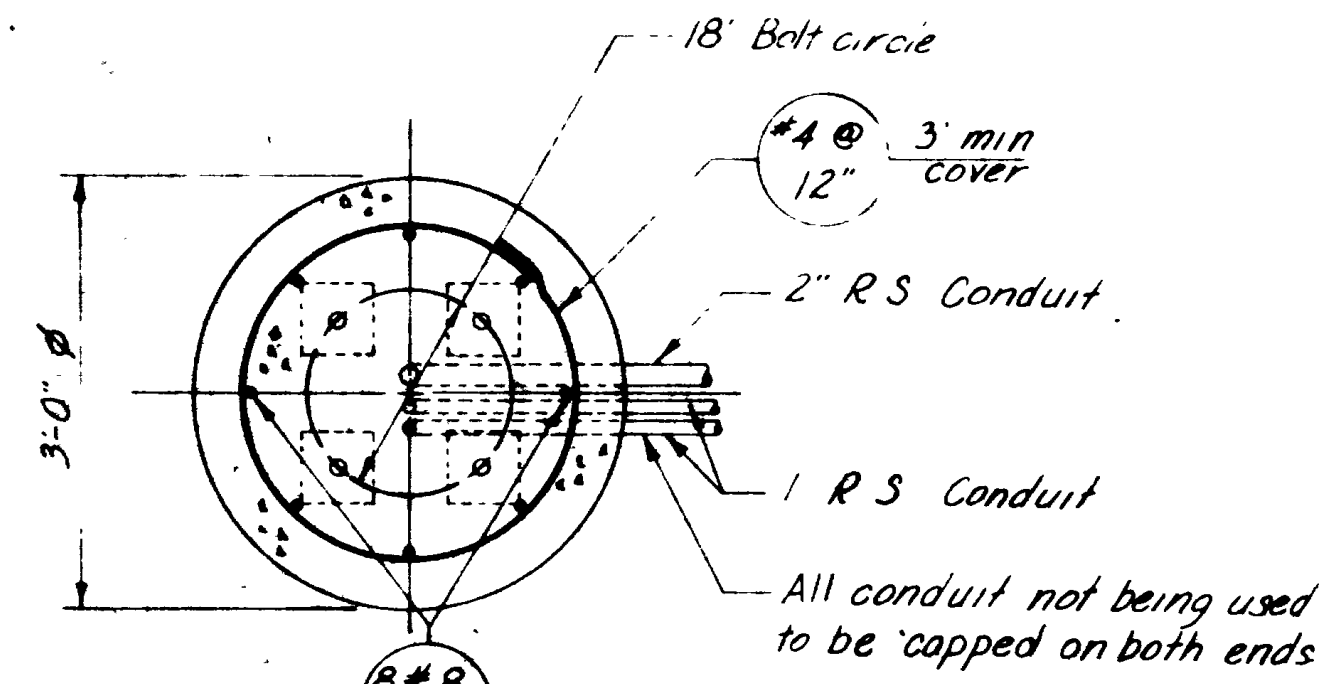
Pipe Tenon Detail



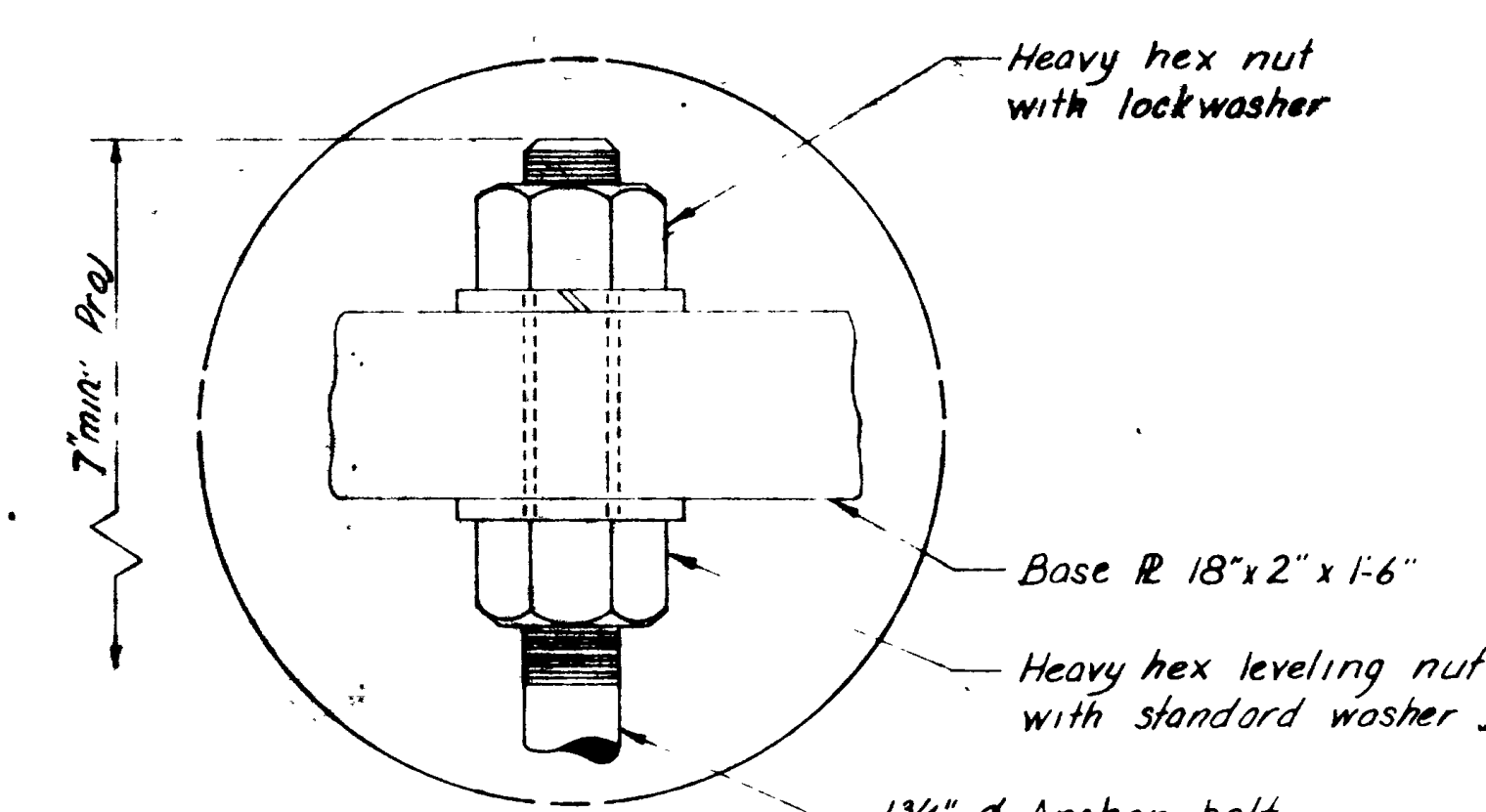
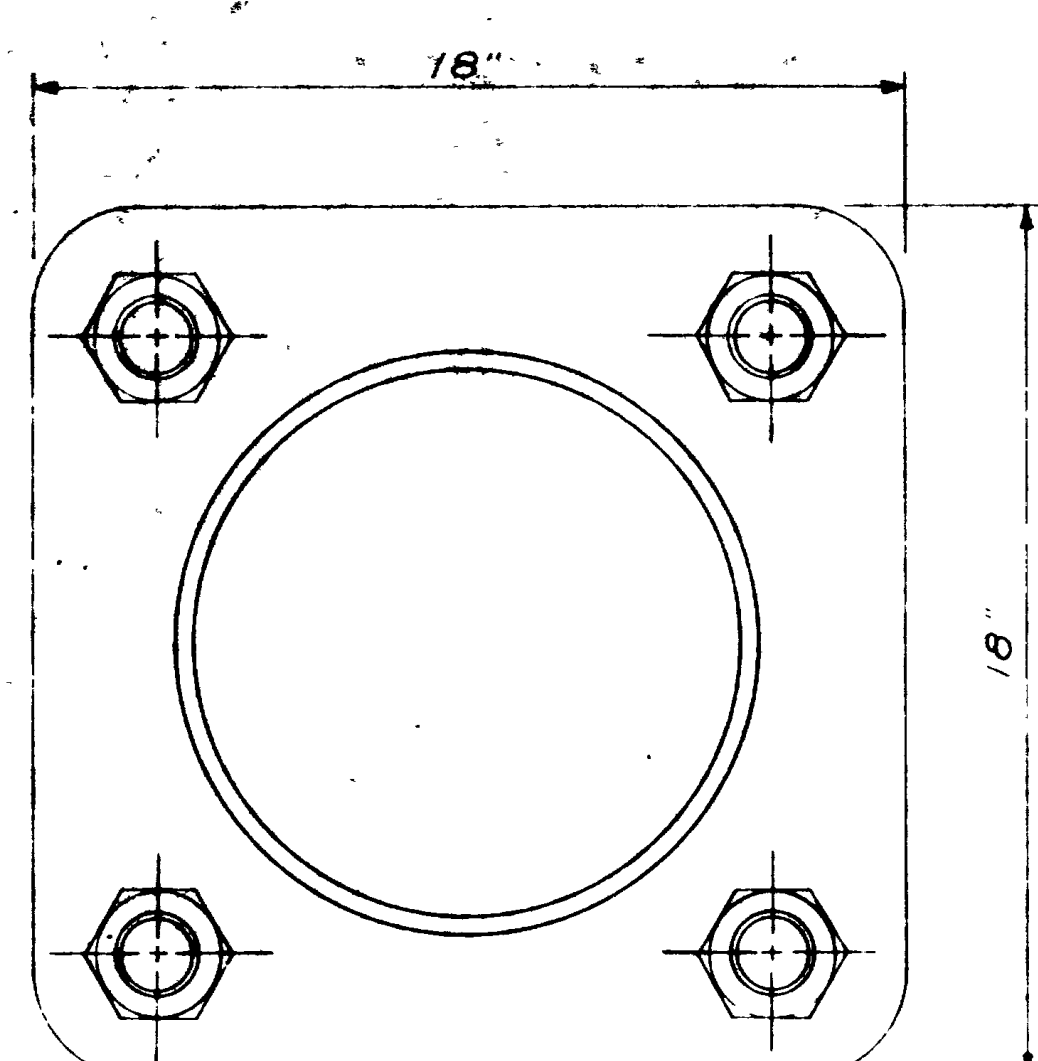
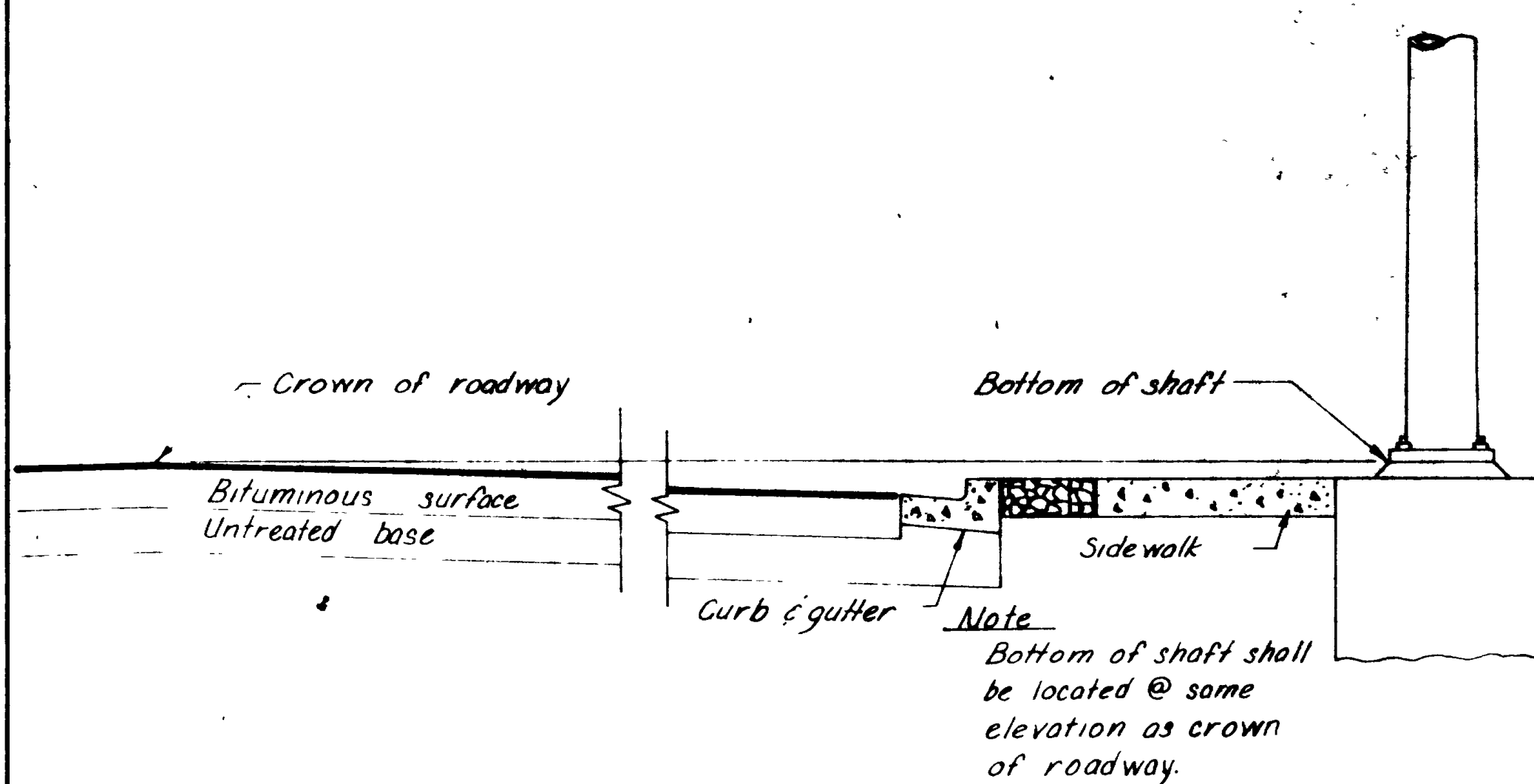
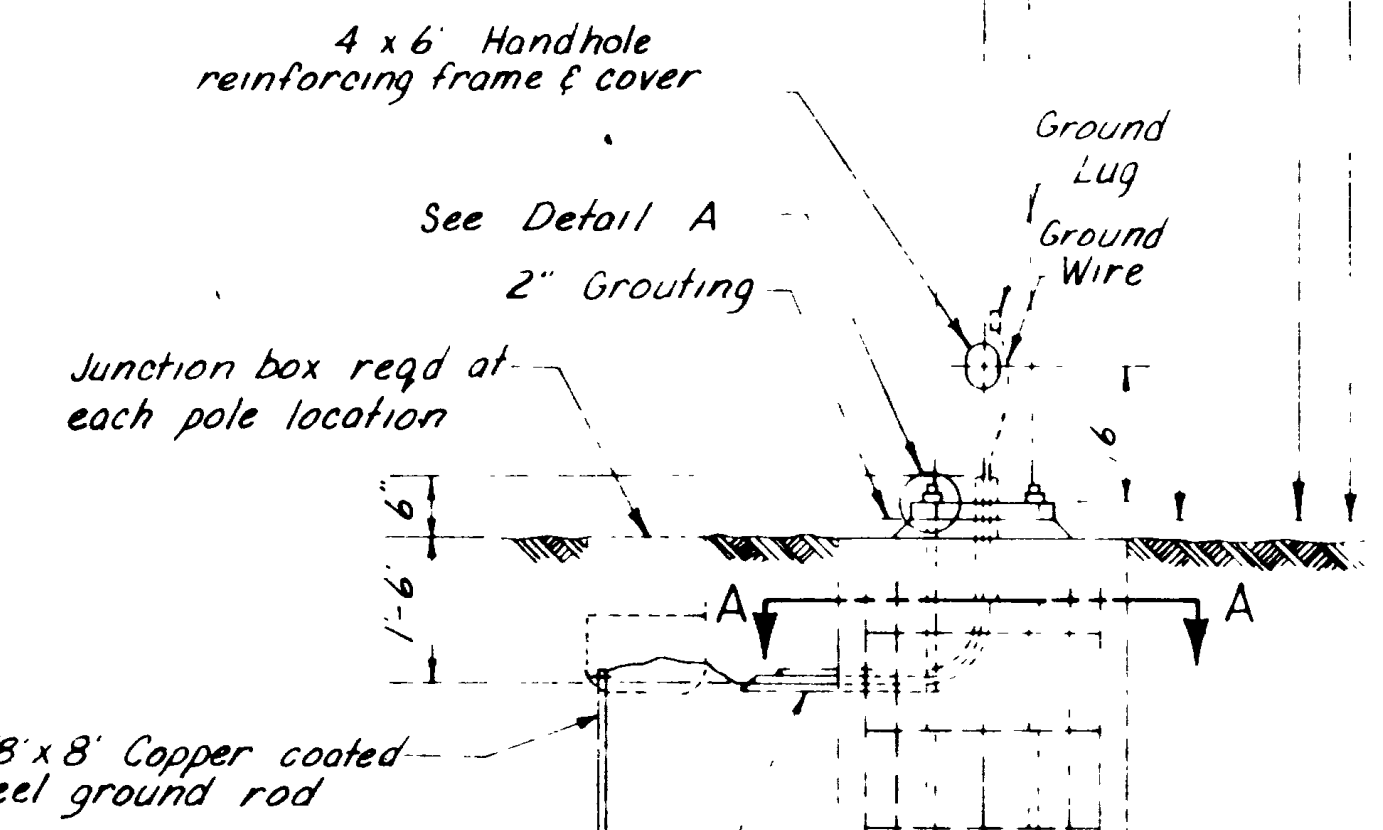
Signal Arm Connection



Anchor Bolt Detail



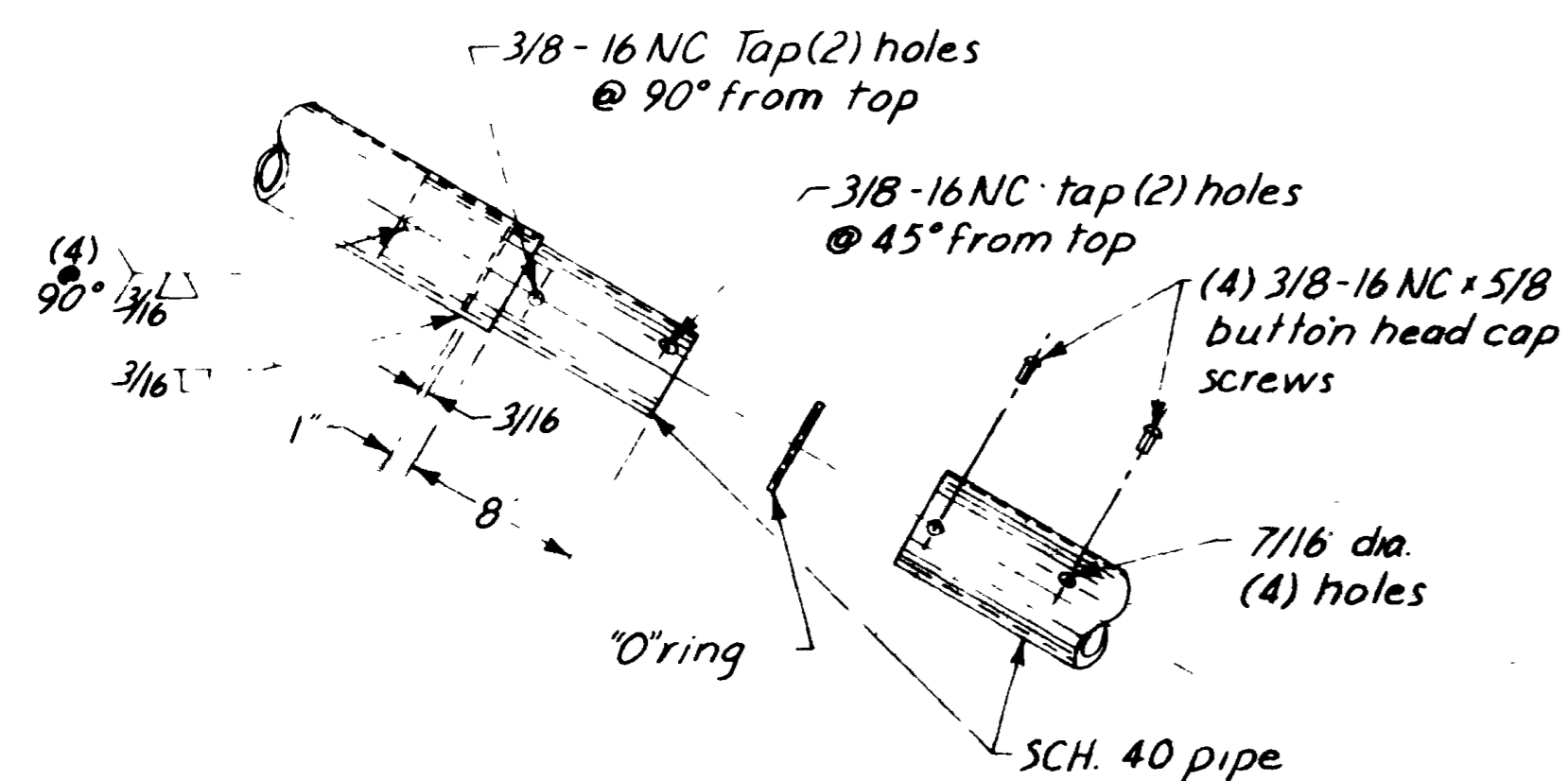
Section A-A



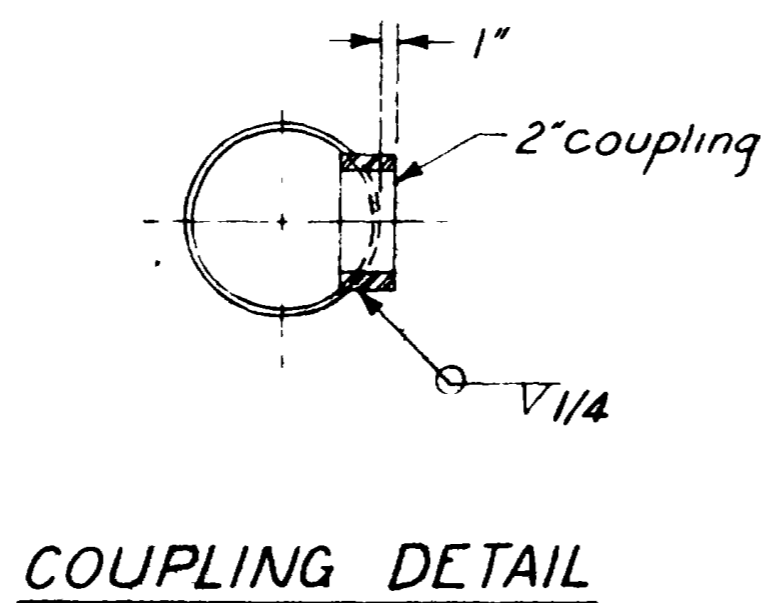
Detail A

UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH			
TRAFFIC CITY DESIGN			
TRAFFIC SIGNALS			
OGDEN			
MAST ARM SIGNAL POLE			
DESIGNED K.F. Herzog	CHECK 10-74 PH	DATE	REVIEW
DRAWN K.F. Herzog	CHECK 10-74 PH	DATE	REVIEW
QUANT K.F. Herzog	CHECK 10-74 PH	DATE	REVIEW
APPROVAL 10-74	DATE	BY	REVIEW
APPROVED 10-74	DATE	BY	REVIEW
PROJECT NUMBER HHS-0205(2)		S-61 DWG NO 22 OF	

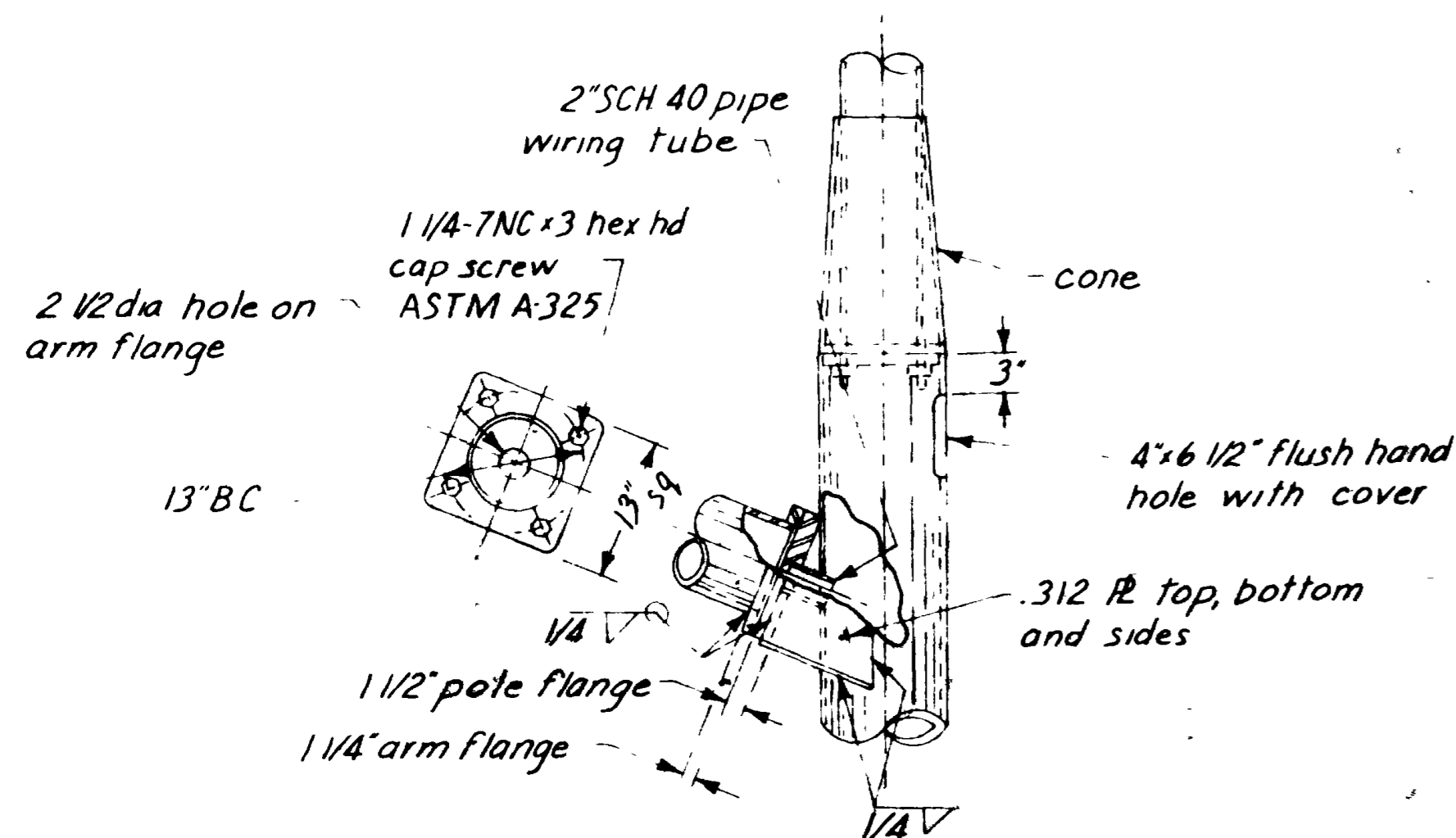
NO.	BY	REVISIONS



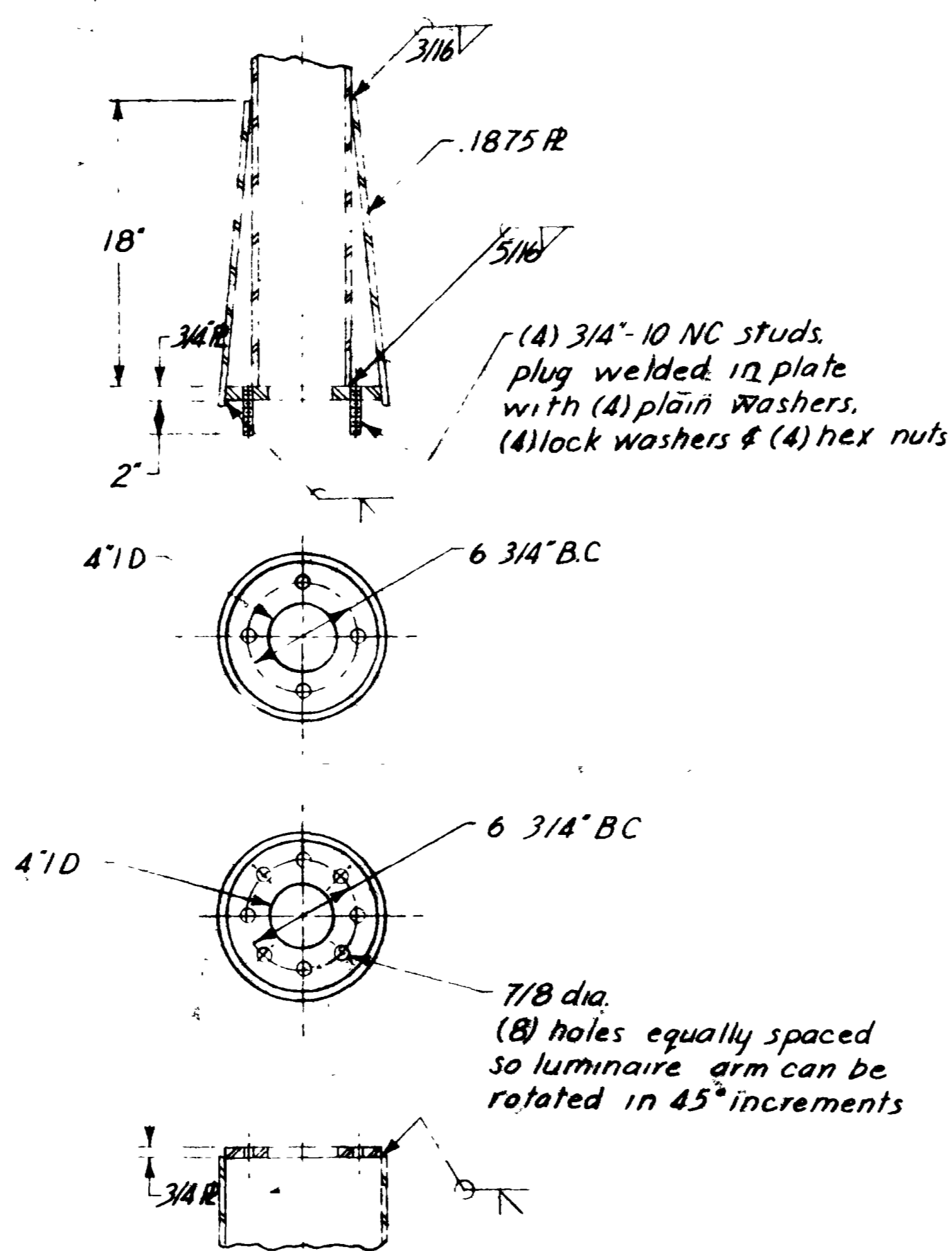
LUMINAIRE ARM CONNECTION



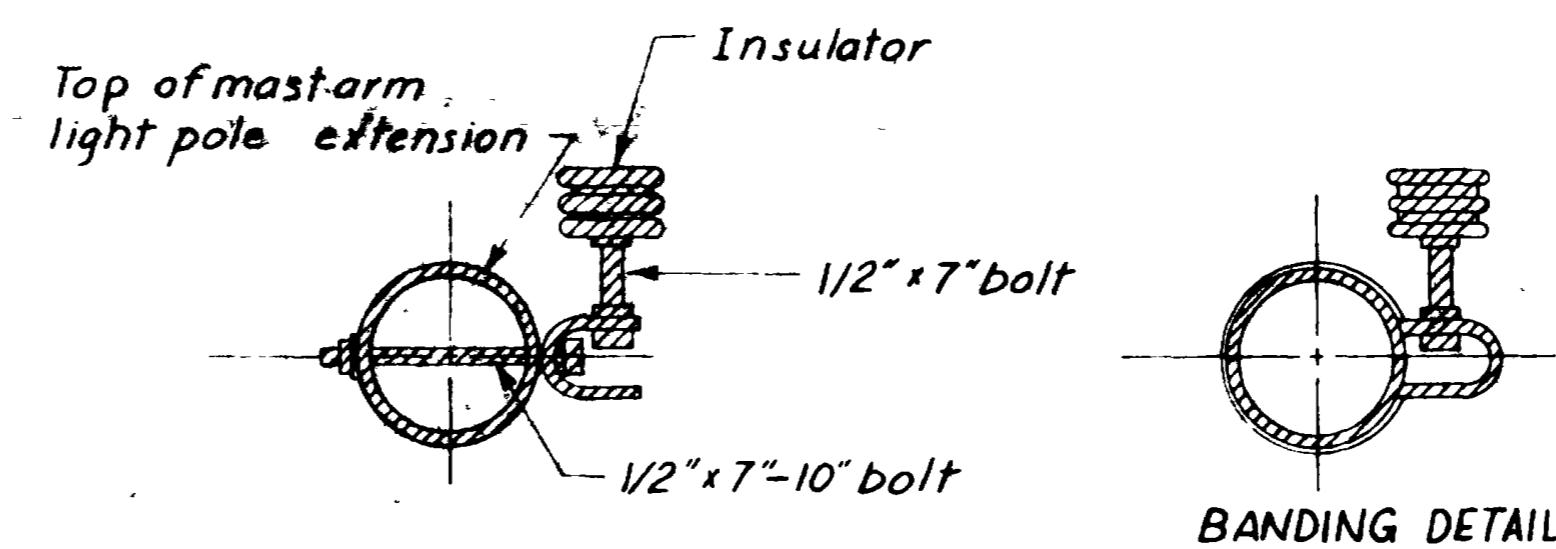
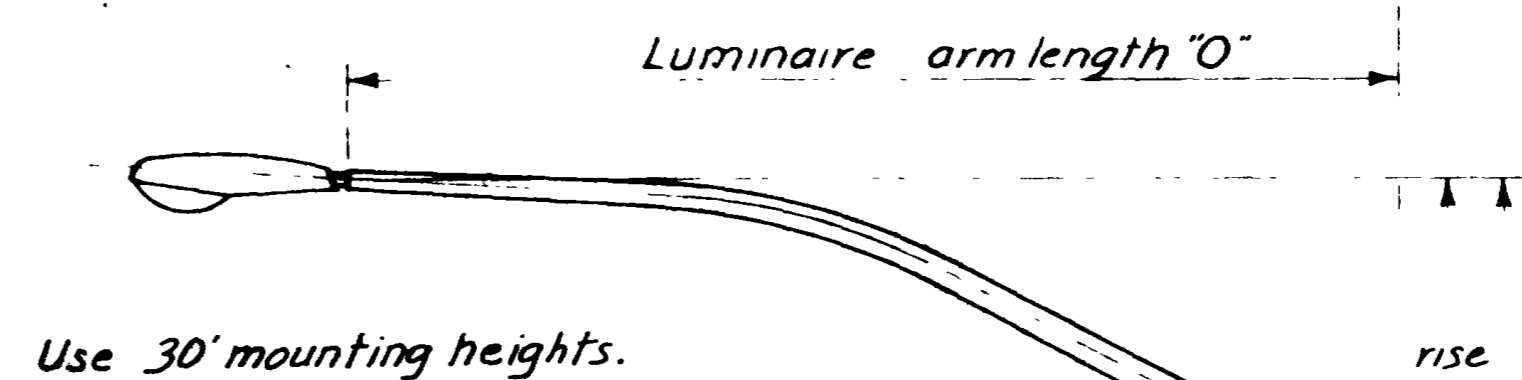
COUPLING DETAIL



SIGNAL ARM CONNECTION



CONE DETAIL



INSULATOR DETAIL

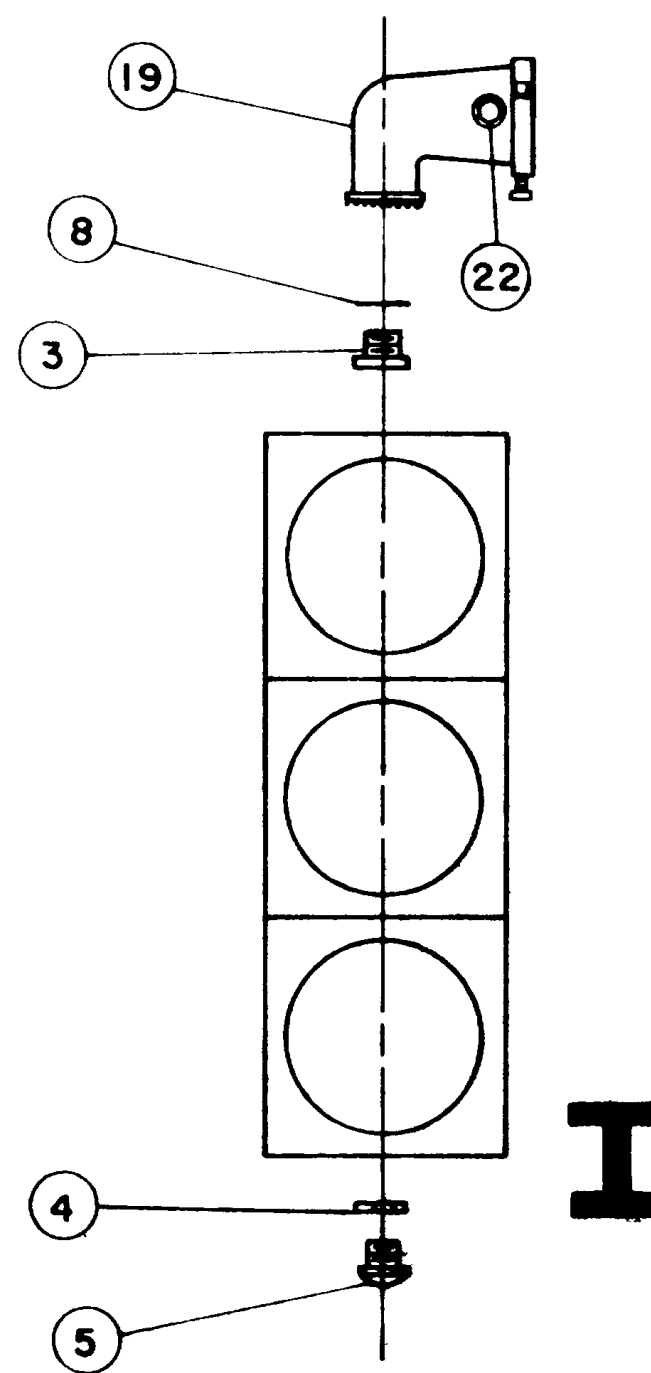
- Notes:**
- 1 All bolts to be cadmium plated accord with ASTM A165 NS, all other hardware to be galvanized
 - 2 Bolt shall be located in center of light pole extension
 - 3 Location of insulator on arm to be determined in the field by the Project Engineer
 - 4 Insulator bolt hole shall be painted to prevent rusting
 - 5 Insulator shall remain in line with and support the existing lighting circuit where possible

NOTES:

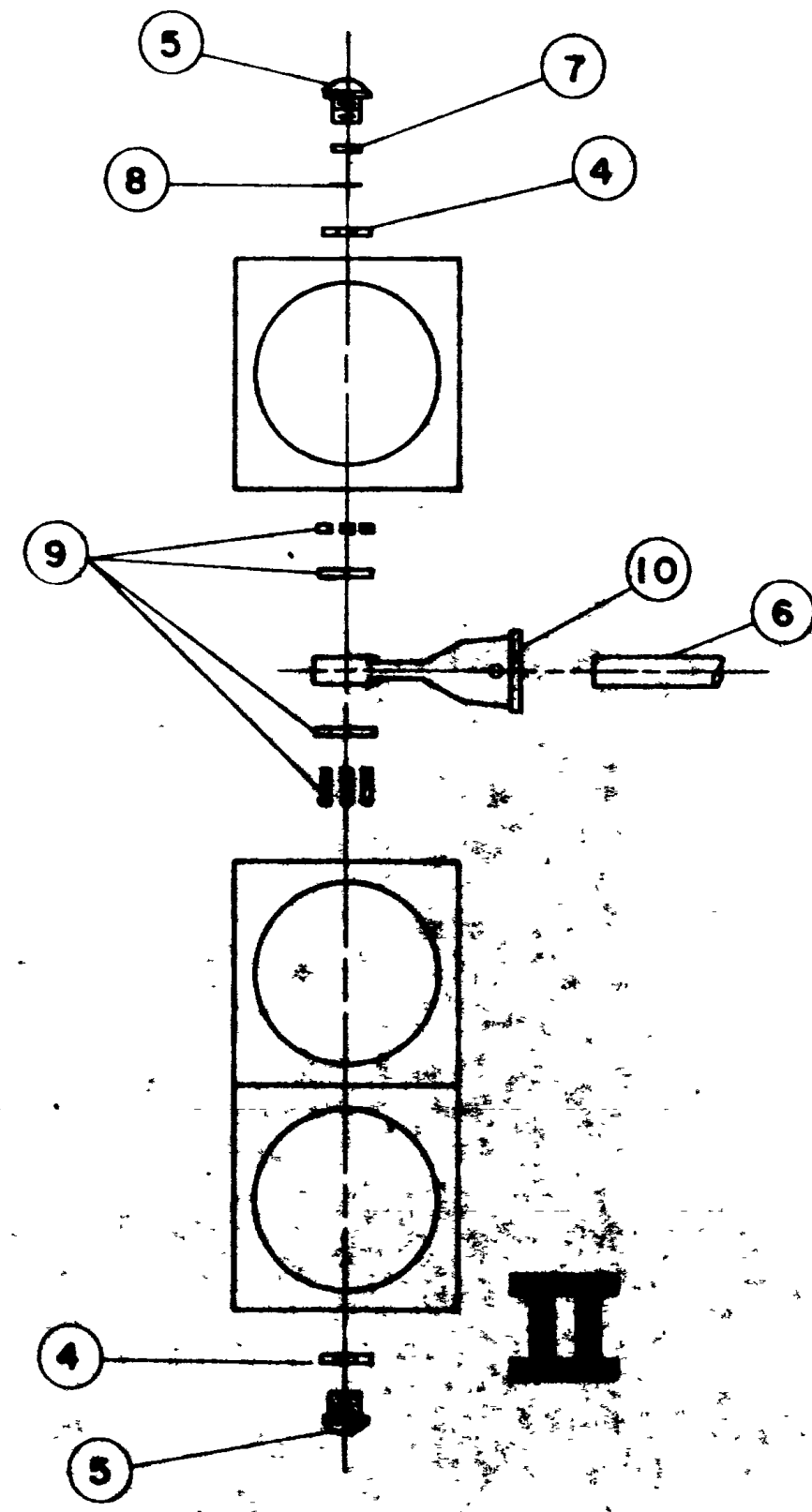
- Pole Specifications.**
Material
 Base plate and flanges
 ASTM A-283 GR D steel
 Shaft.
 .250 ASTM A-283 GR D steel
 .125 & .1875 ASTM A-570 GR D steel
 Pipe
 ASTM A-53
Welds
 All butt welds to be ground flush with base metal
 Longitudinal
 Butt weld by the submerged arc process
 Circumferential
 Butt weld with permanent back-up ring
Finish
 Hot dip galvanized per ASTM A-123

LUMINAIRE ARM DATA				
"O"	Top OD x Base OD x Thickness	"P"	"Q"	
			Nominal	Nominal
6'-0"	2 3/8 x 4 x .125	3'-0"	30'-0"	35'-0"
8'-0"	2 3/8 x 4 x .125	3'-6"	28'-0"	33'-0"
10'-0"	2 3/8 x 4 x .125	4'-0"	29'-0"	34'-0"

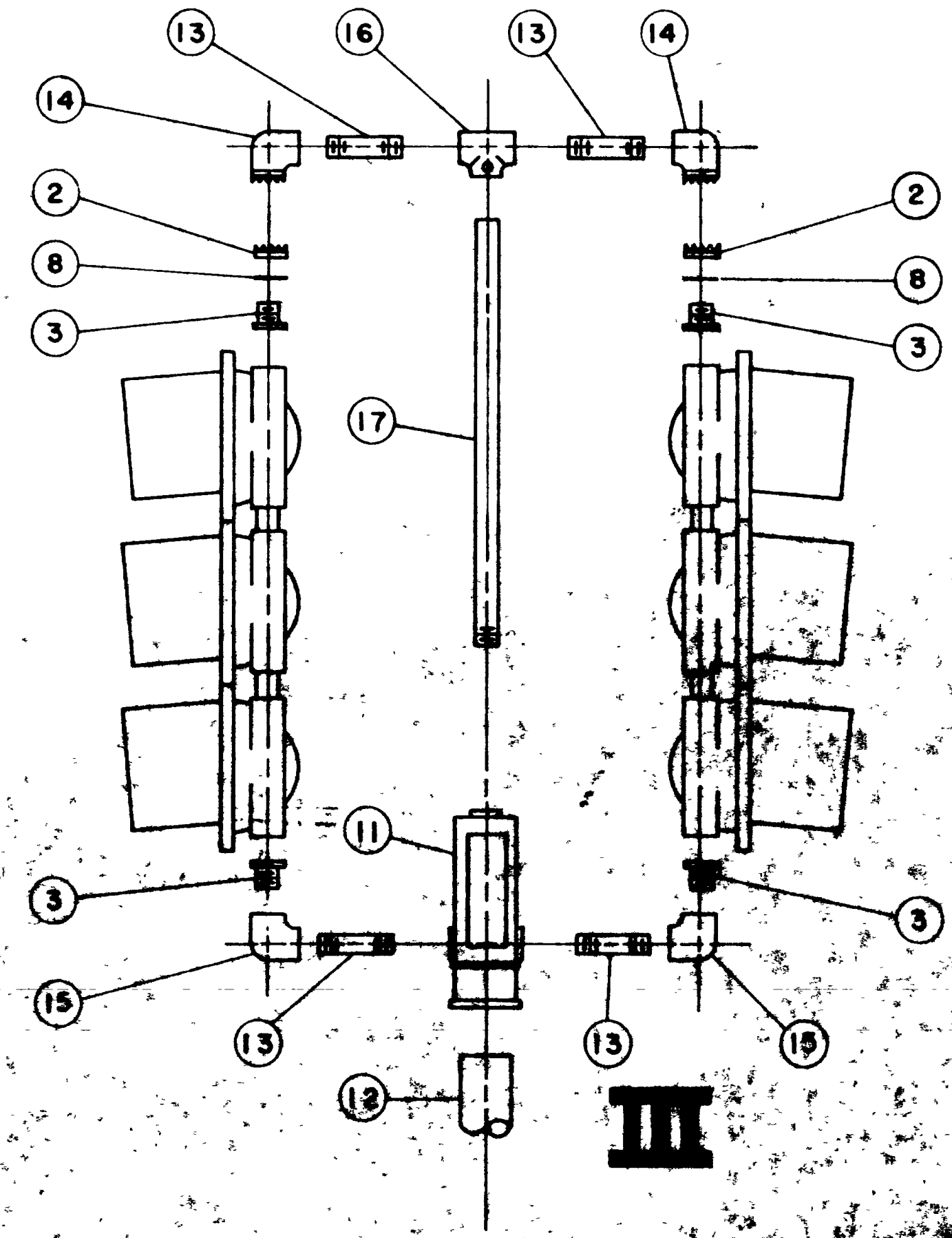
UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH			
TRAFFIC DESIGN			
OGDEN			
LIGHT POLE EXTENSION DETAIL			
DESIGNED K F Herzog	CHECK 10-74 PH	REVIEW	
DRAWN K F Herzog	CHECK 10-74 PH	DATE 8/6/74	
QUANT K F Herzog	CHECK 10-74 PH	N/A	
APPROVAL 10-74	<i>[Signature]</i>		
APPROVED 10-74	<i>[Signature]</i>	WEBER COUNTY	
PROJECT NUMBER HHS 0005(2)	S. BL	21 OF	



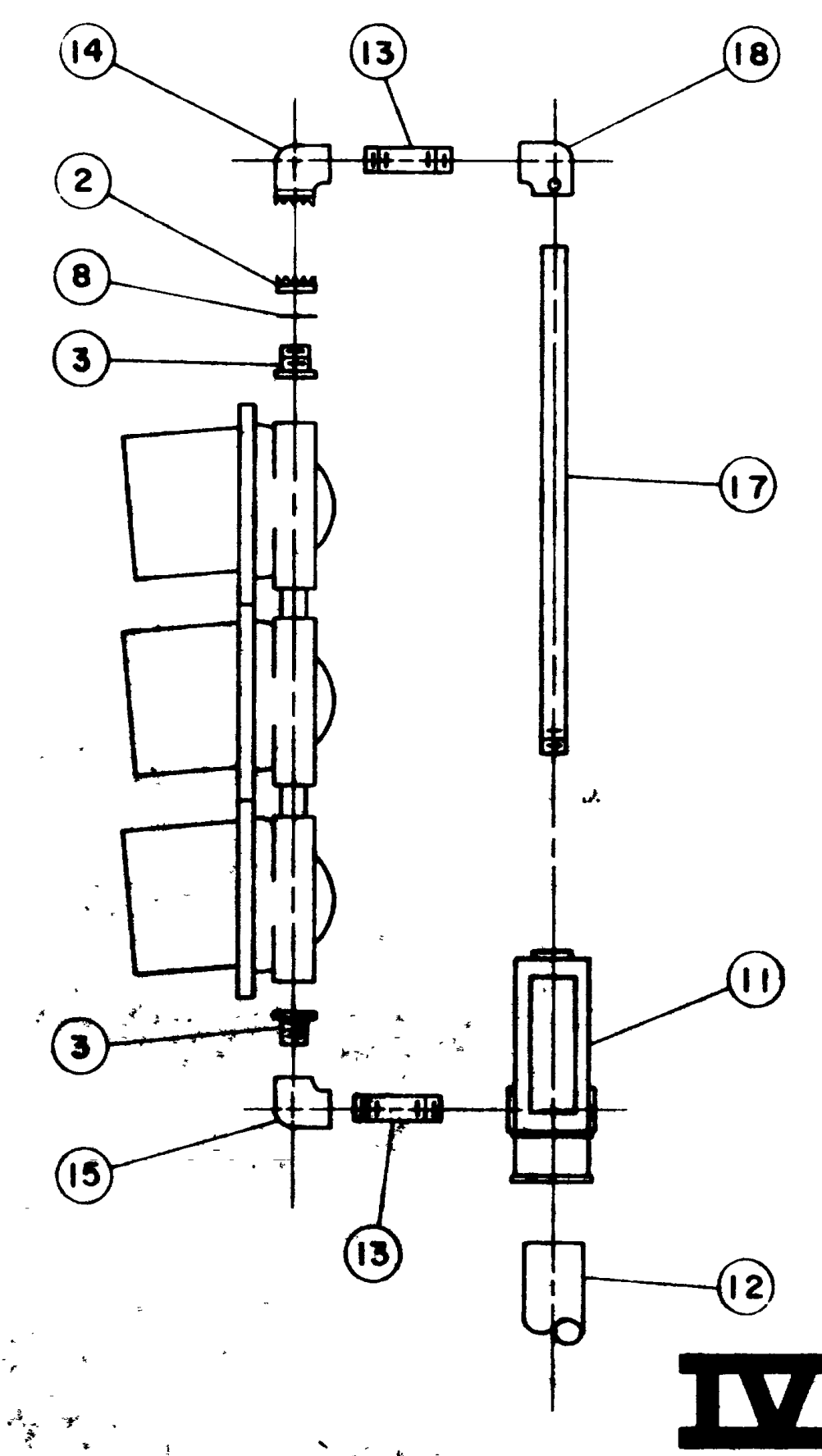
I



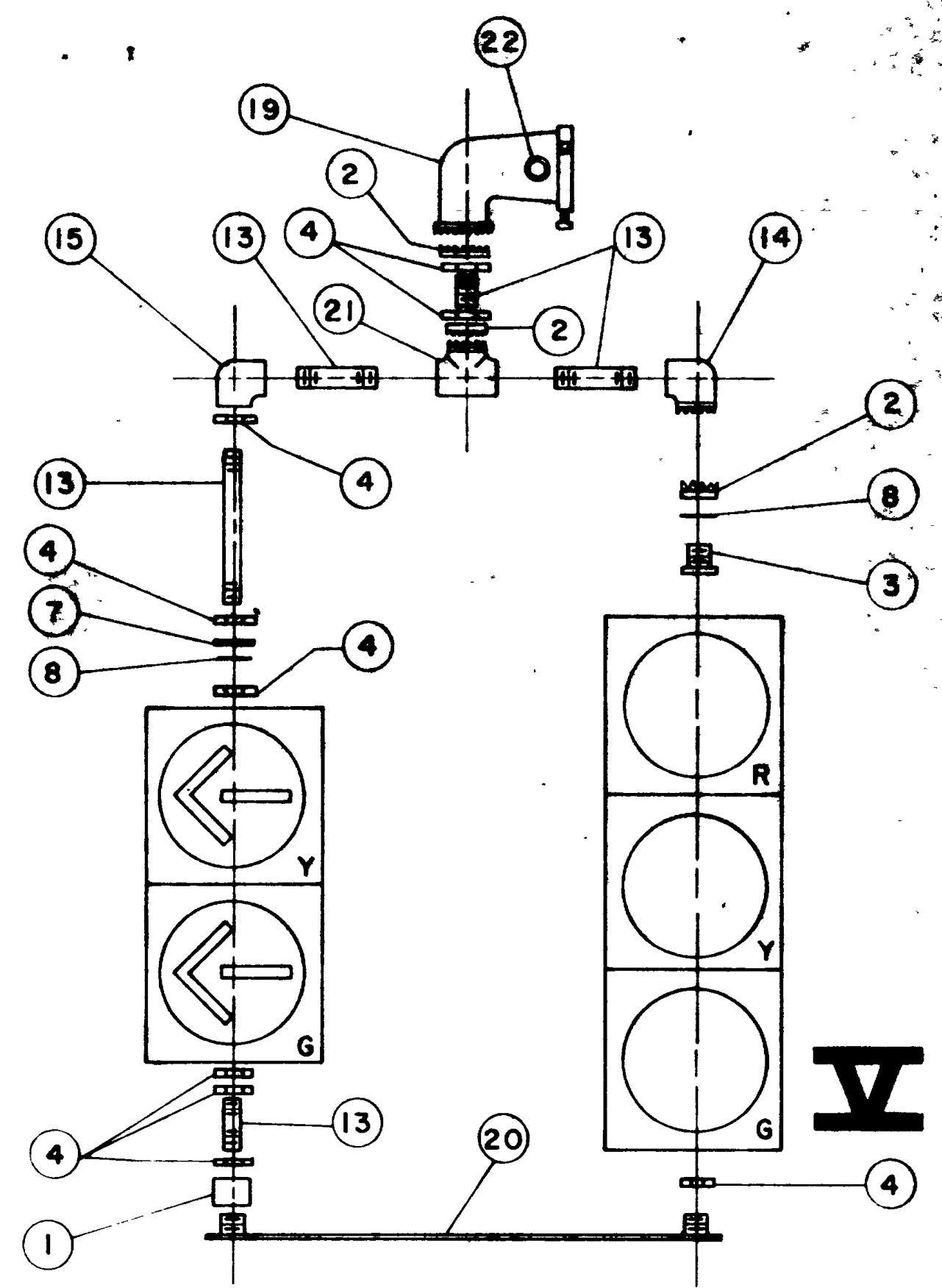
II



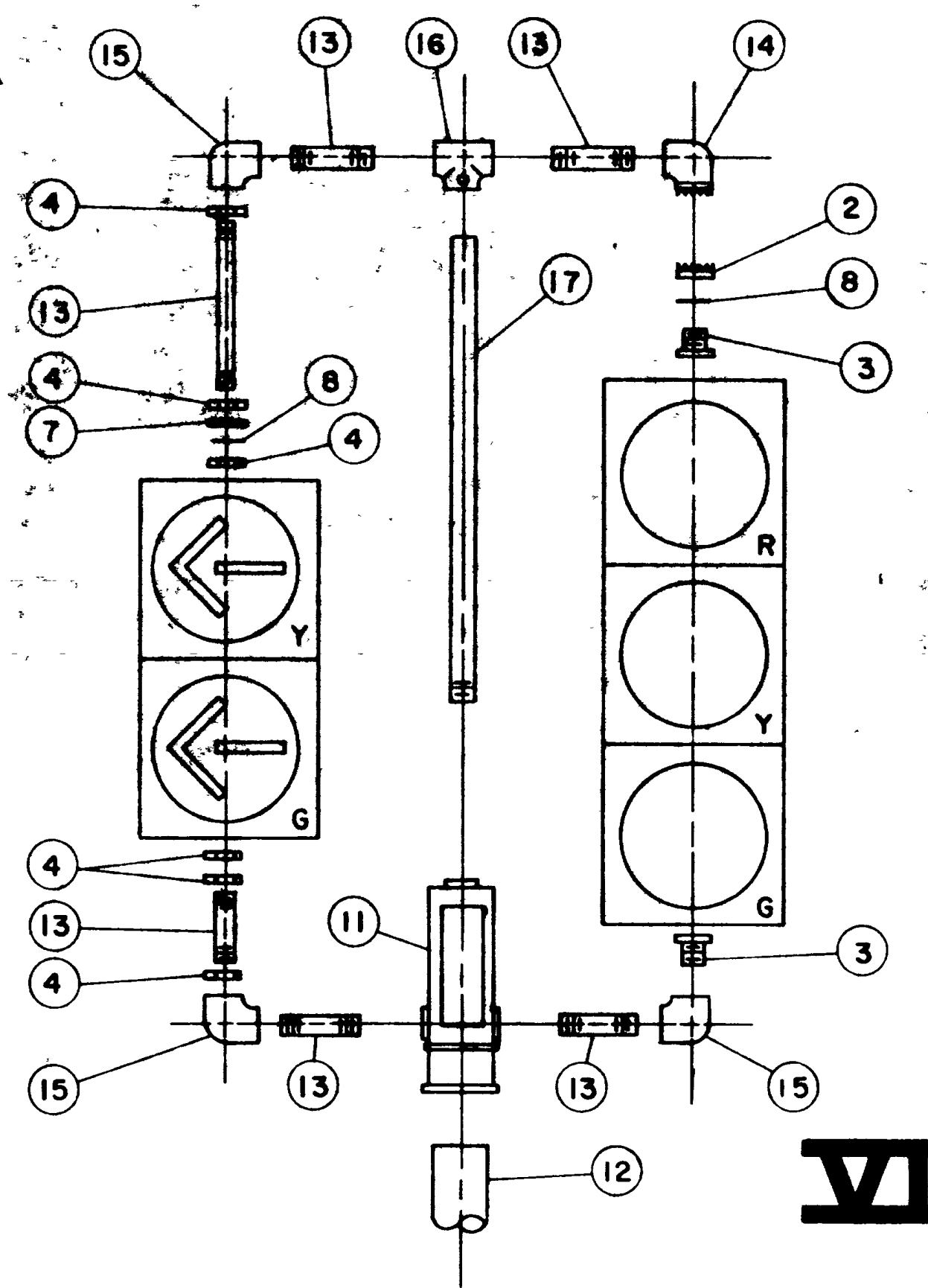
III



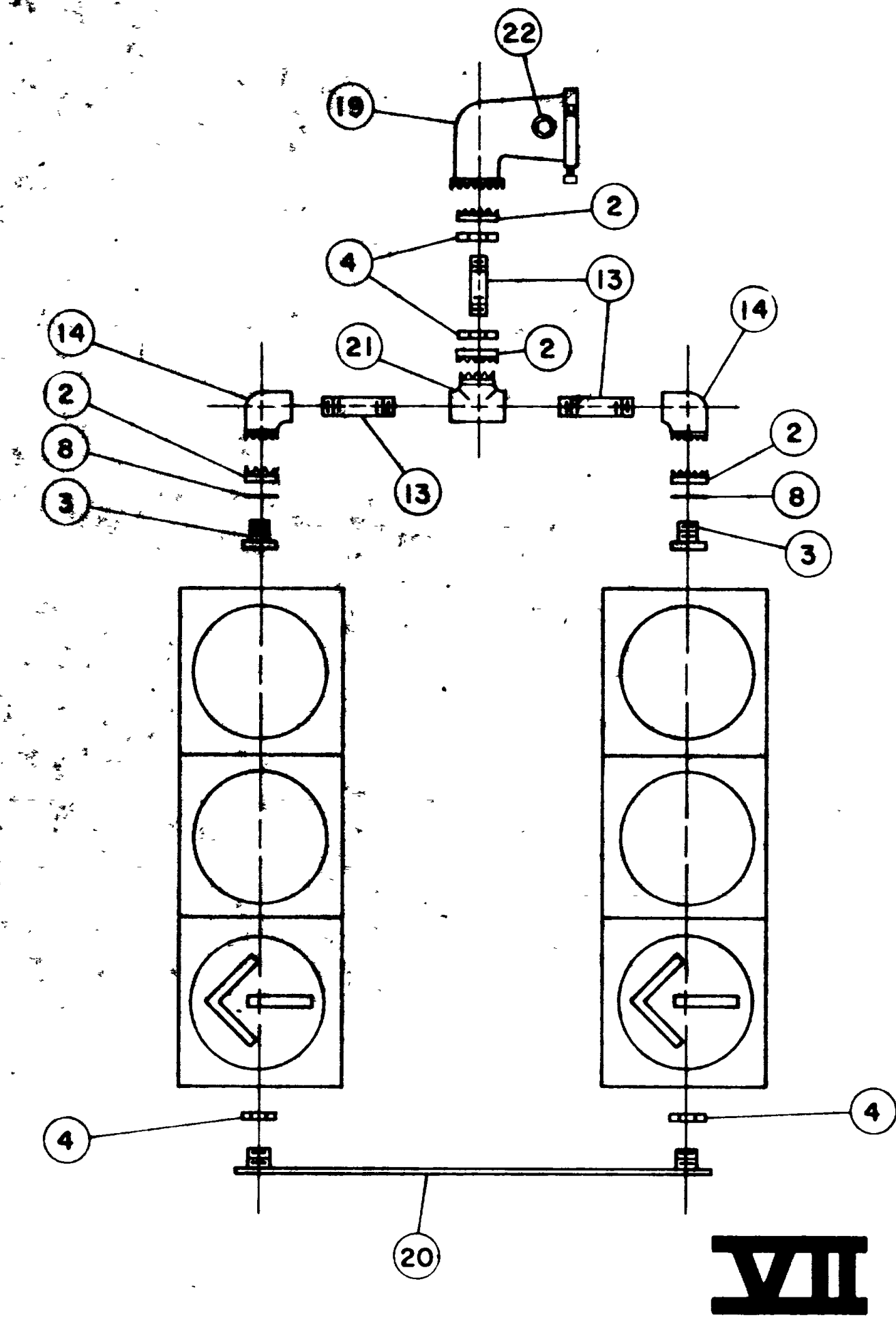
IV



V



VI



VII

- LEGEND:**
1. 1-1/2" SLEEVE.
 2. LOCK RING.
 3. 1-1/2" x 1-3/4" LOCK NIPPLE.
 4. CONDUIT LOCK NUT.
 5. ORNAMENTAL CAP.
 6. PIPE TENON.
 7. FLAT WASHER.
 8. NEOPRENE WASHER.
 9. ATTACHING WASHERS WITH 3-1/4" 20 UNC x 3-1/2" CARRIAGE BOLT WITH NUT.
 10. BRONZE ELEVATOR PLUMBIZER.
 11. POLE TOP MOUNTED TERMINAL COMPARTMENT.
 12. PIPE SHAFT.
 13. 1-1/2" PIPE, THRD. BOTH ENDS.
 14. 90° ELBOW WITH LOCKING DEVICE.
 15. 90° ELBOW.
 16. TEE, DRILL & TAP FOR SET SCREW.
 17. 1-1/2" PIPE, THRD. ONE END ONLY.
 18. 90° ELBOW, DRILL & TAP FOR SET SCREW.
 19. RIGID MAST ARM HANGER WITH 1-1/2" I.D. THREADED AND 2-1/8" I.D. FOR MAST ARM TENDON.
 20. TIE BRACE - 2 WAY.
 21. 1-1/2" SERRATED TEE.
 22. 5/16" STAINLESS STEEL OR CADMIUM PLATED BOLT WITH DOUBLE HEX NUTS.

NOTES:

TERMINAL BLOCK TO BE LOCATED IN TOP SECTION.

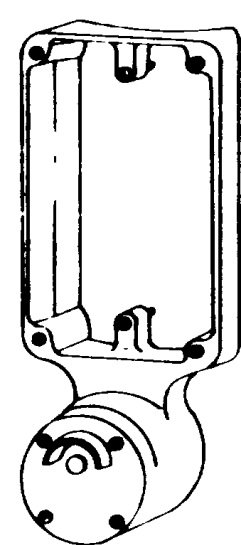
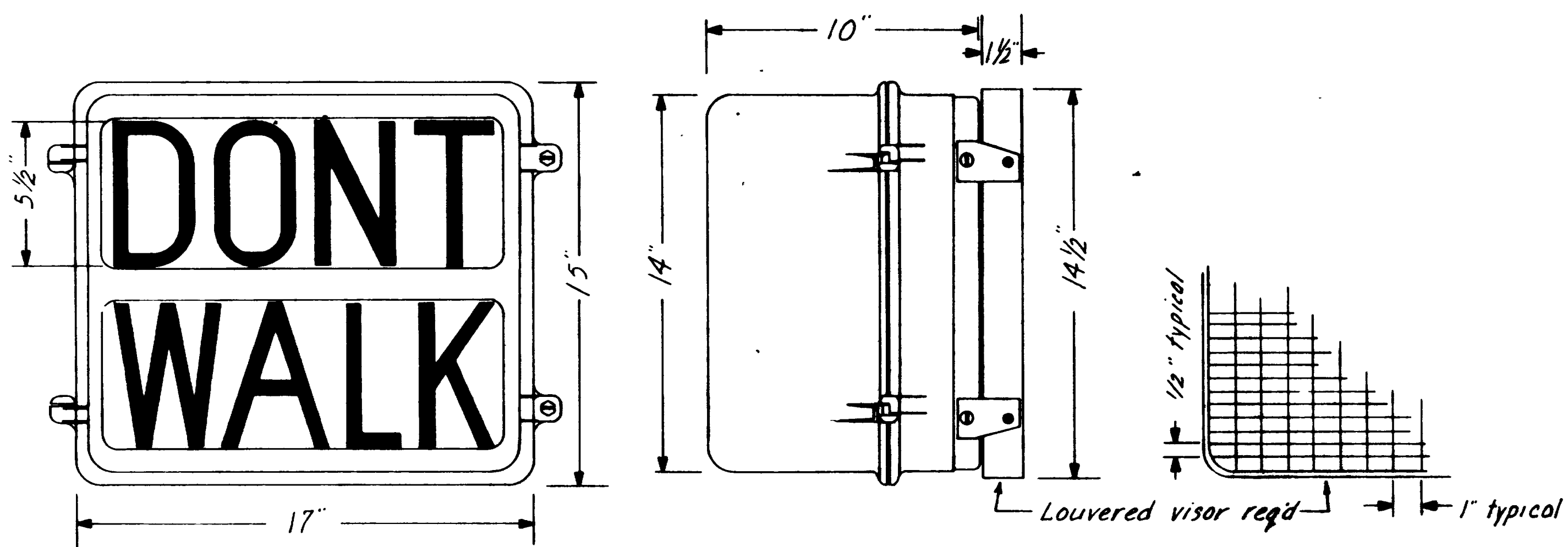
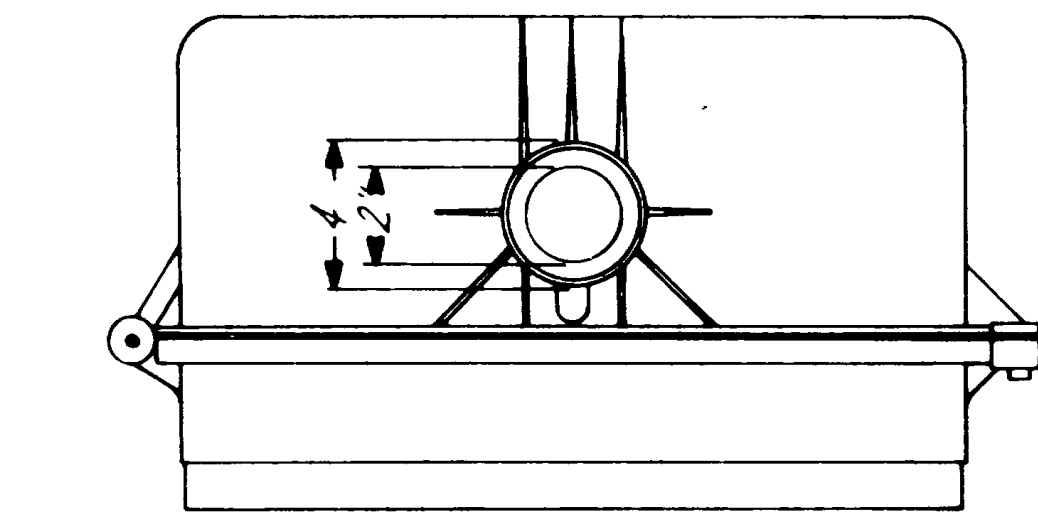
VISORS FOR TRAFFIC SIGNALS SHALL BE THE TUNNEL TYPE, 12" x 12" AND GREEN IN COLOR. REFLECTOR FOR TRAFFIC SIGNALS SHALL BE MADE OF ALZAK.

SHOP DRAWINGS ARE REQUIRED IN ACCORDANCE WITH SECTION 510.04 OF THE STATE OF UTAH "SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" 1970 EDITION.

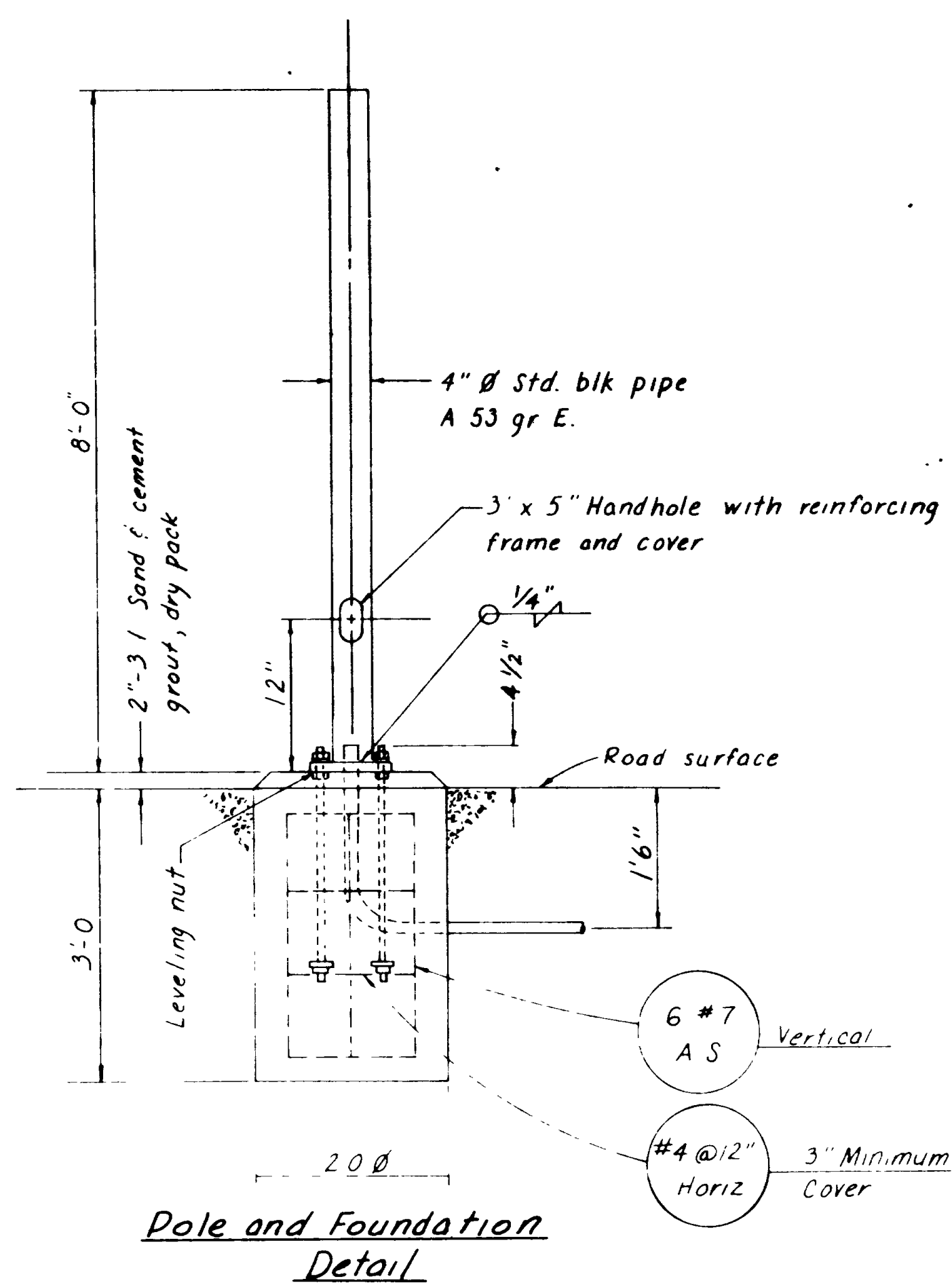
OTHER HARDWARE ACCEPTABLE SUBJECT TO APPROVAL OF STATE ENGINEER.

UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH			
TRAFFIC DESIGN			
OGDEN			
SIGNAL HEAD DETAILS			
DESIGNED K F Herzog	CHECK 10-76 PH	REVIEW	
DRAWN K F Herzog	CHECK 10-76 PH	DATE 11-20-76	
QUANT K F Herzog	CHECK 10-76 PH		
APPROVAL	10-76		
RECOMM			
APPROVED	10-76		
PROJECT	HHS-0005 (2)	5-61	22 OF
NUMBER		DWG NO	

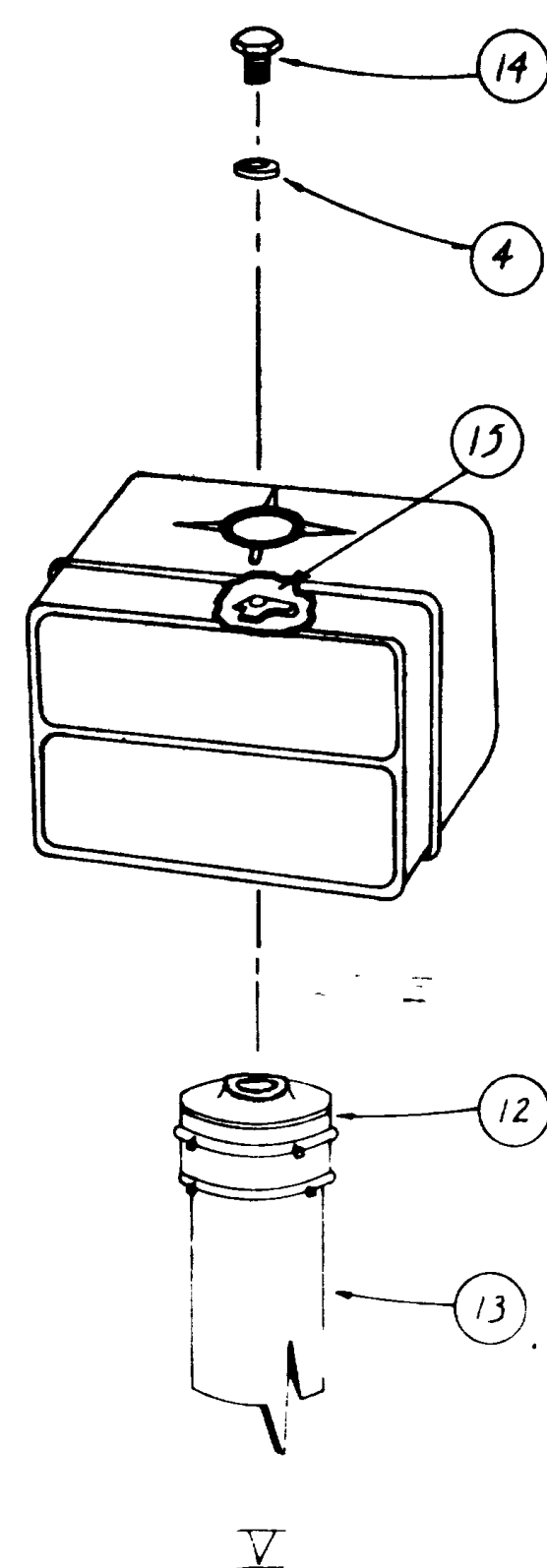
REVISIONS	
N	REMARKS



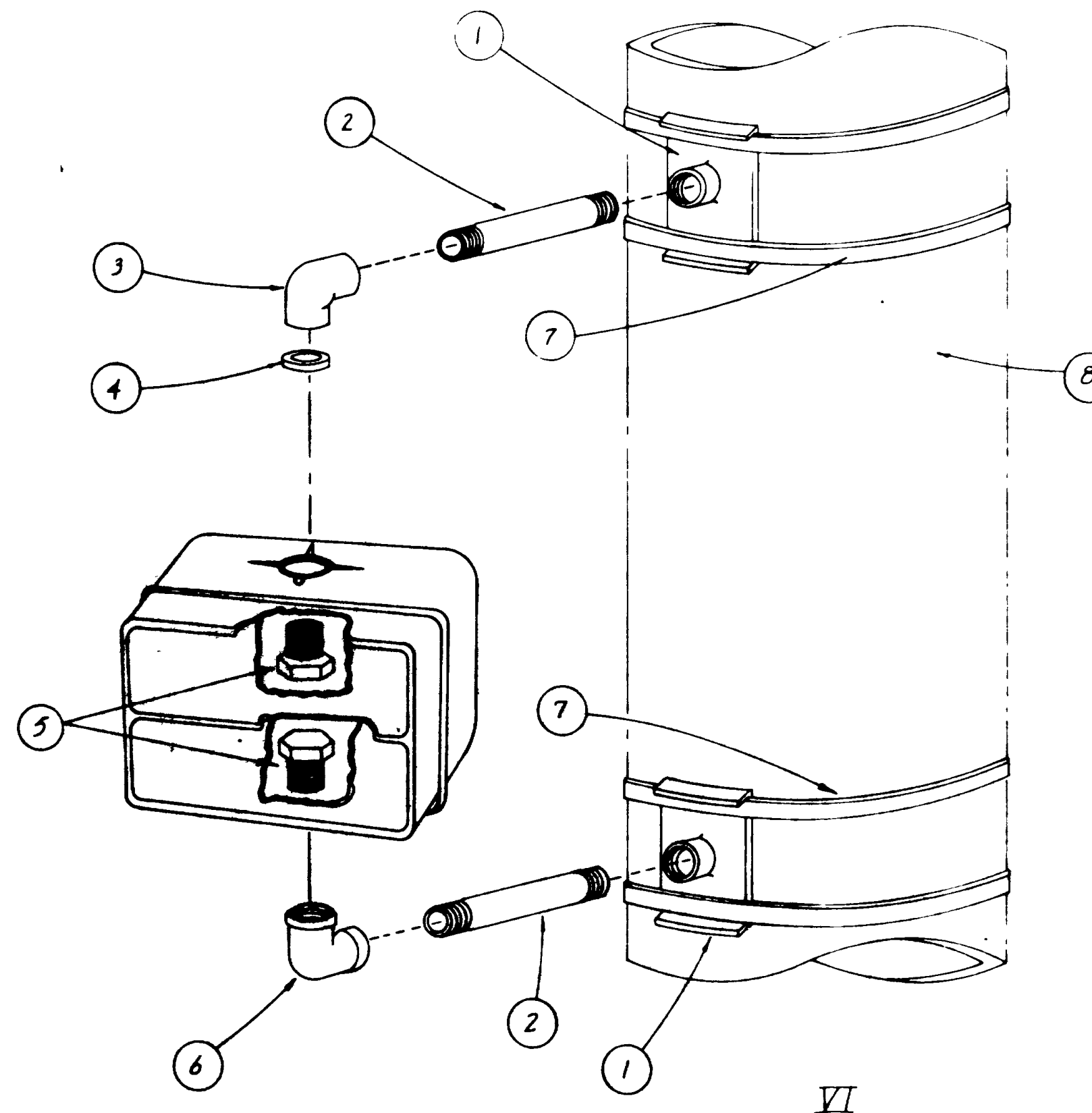
Push Button Assembly Detail



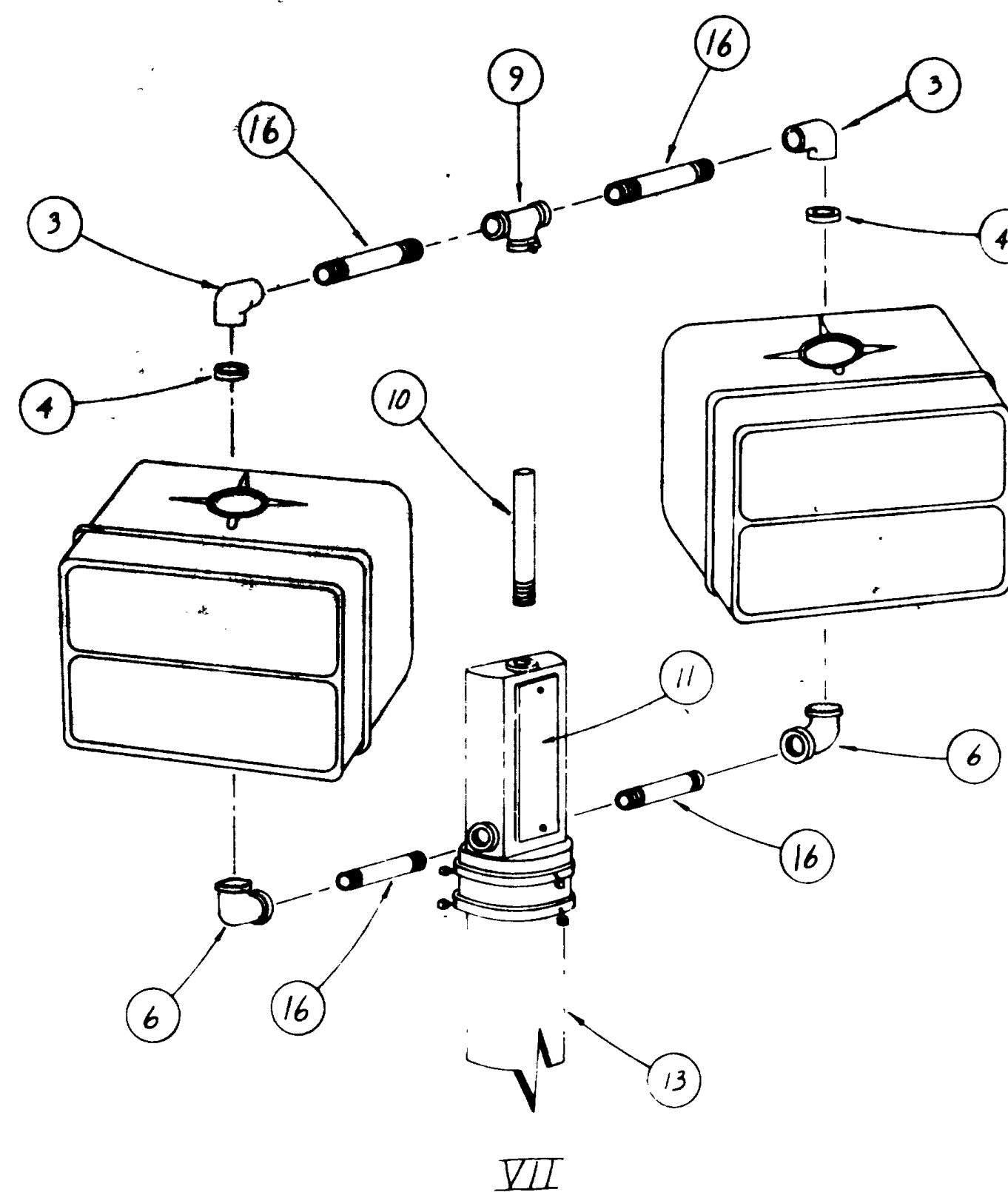
Pole and Foundation Detail



V



VI



VII

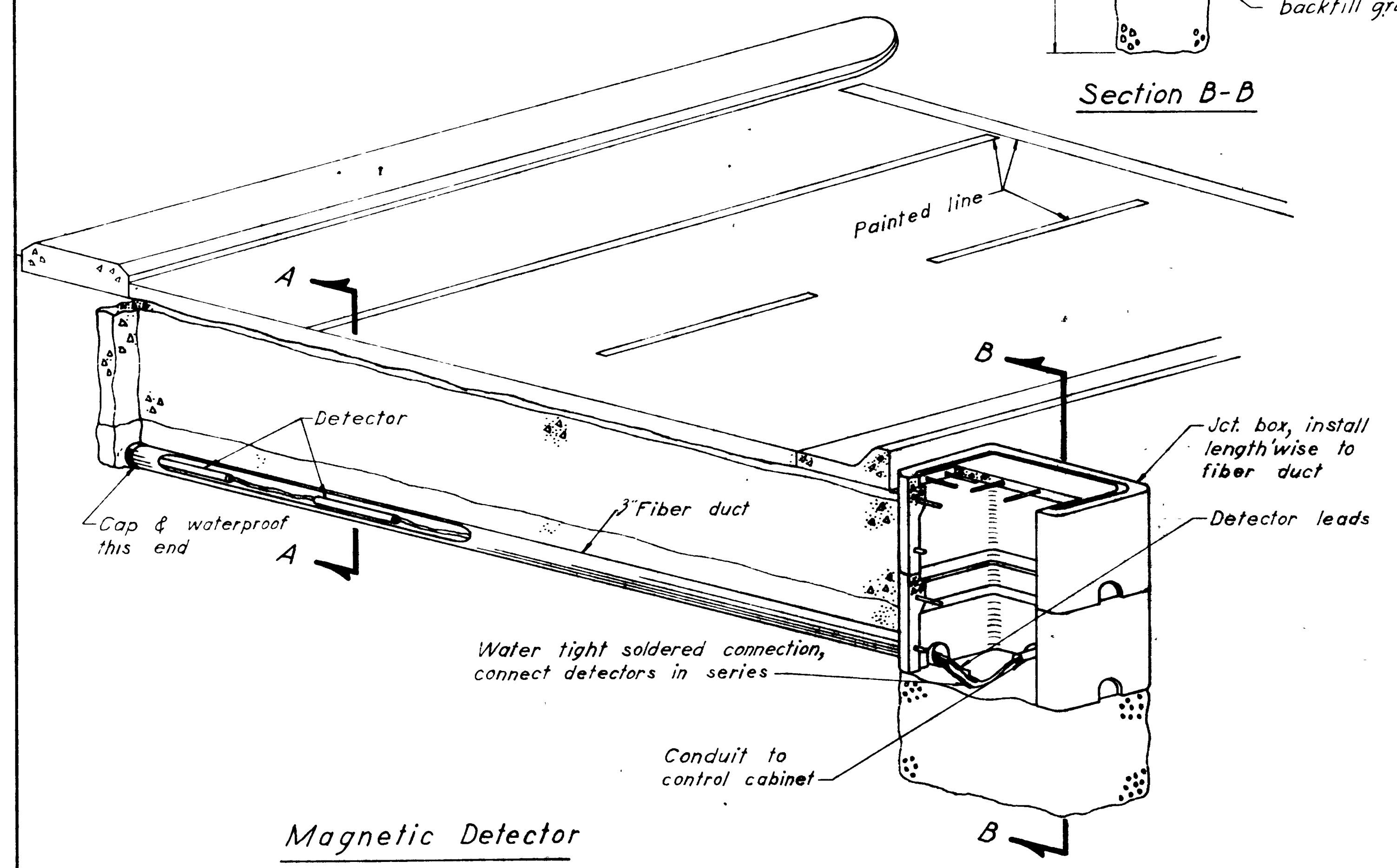
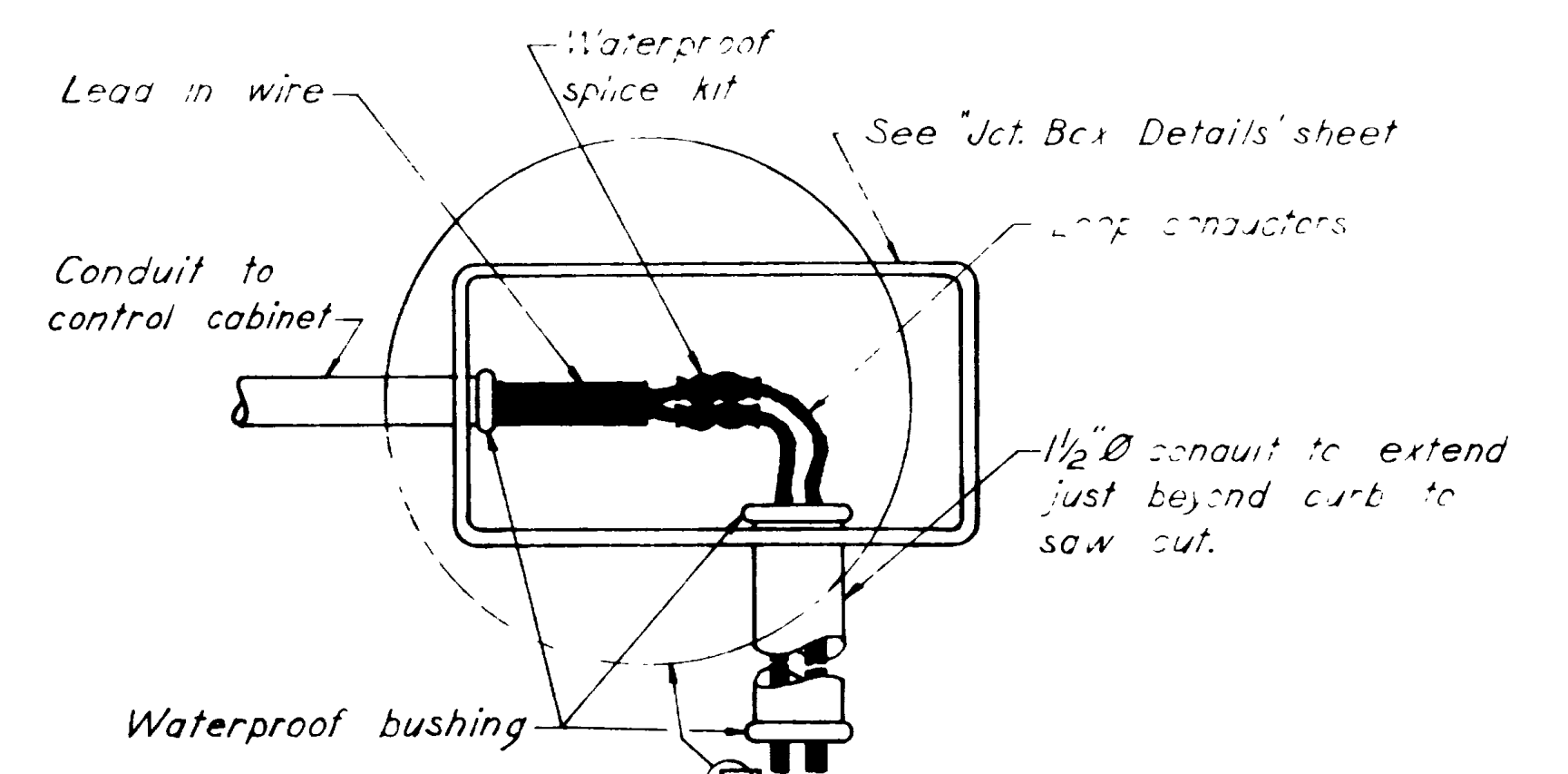
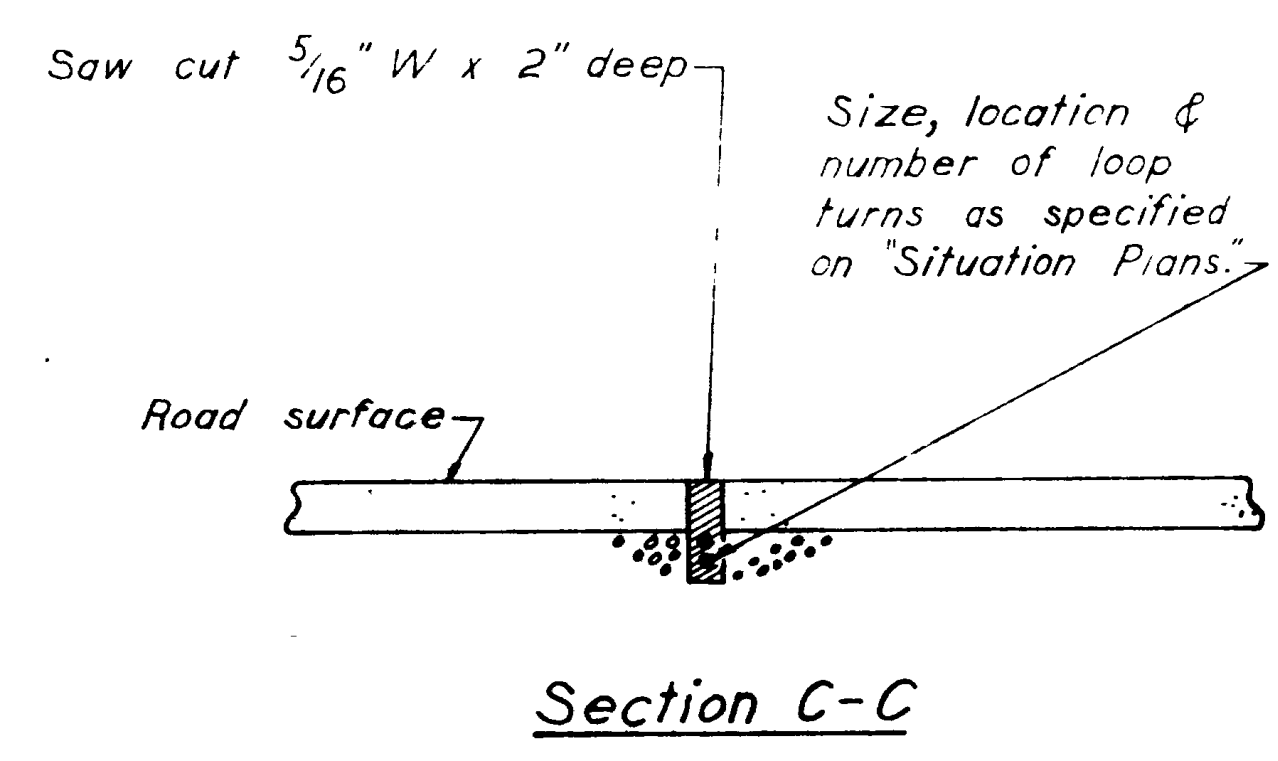
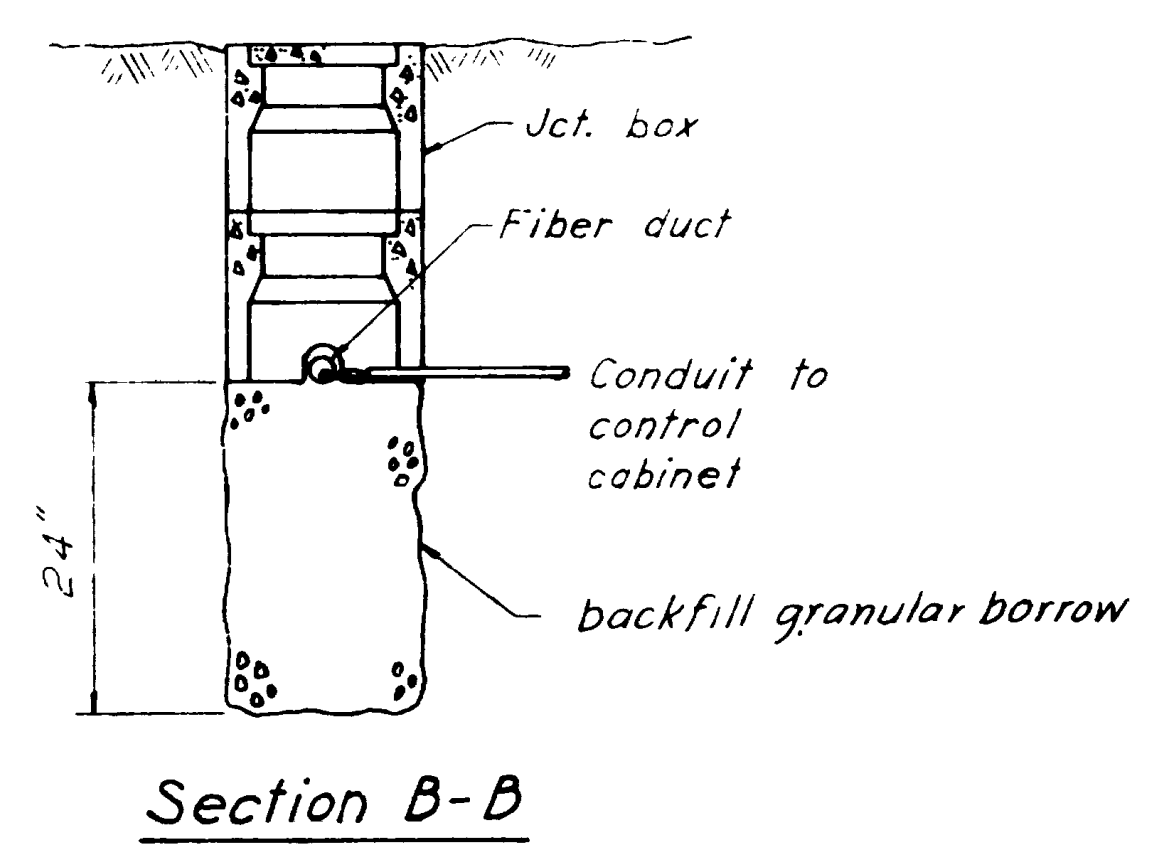
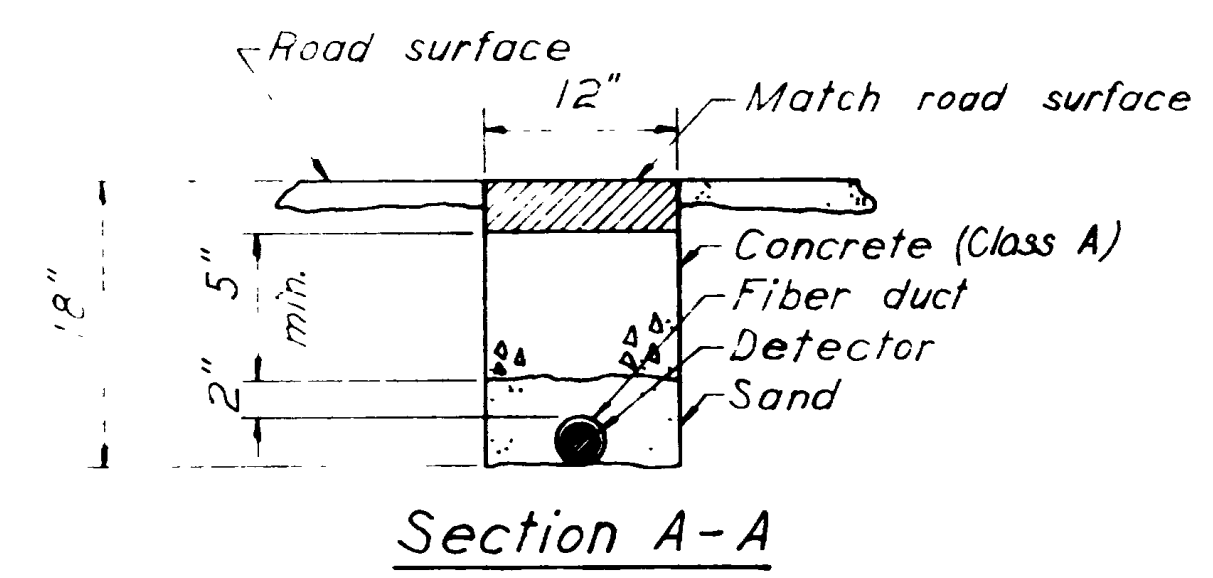
Notes:

1. **SHAFT (B-0)**
The shaft shall be fabricated from standard black steel pipe ASTM A53 grade B
Base plate shall conform to ASTM A36
The shaft assembly shall be hot-dip galvanized after fabrication in accordance with ASTM A123
2. **ANCHOR BOLTS**
Anchor bolts shall be 1" ϕ x 2.5' minimum with top 6" threaded and shall meet ASTM A307 with regular square head or regular square nut tack welded and heavy hex nuts. Exposed portions of anchor bolts shall be cadmium plated in accordance with ASTM A165 type NS. Anchor bolts shall not be welded to reinforcing steel.
3. **FOUNDATION**
Foundation shall be class A concrete (AE) cast in place in augered hole.
Pedestrian signal assembly type VI shall be mounted a minimum of 8' and maximum of 10' from ground surface.
4. **COLOR**
Color of pedestrian signals shall be Lunar White and a Portland orange.
5. **SHOP DRAWINGS**
Shop drawings are required in accordance with section 510.04 of the State of Utah "Standard Specifications for Road and Bridge Construction", 1970 Edition.
6. **POLE PLATE**
Pole plates shall be ordered to fit round mast arm signal pole and shall be strapped to pole, not bolted.
7. **TYPE** Pedestrian signal heads shall be modular or grid type which shall be approved by the State Engineer.

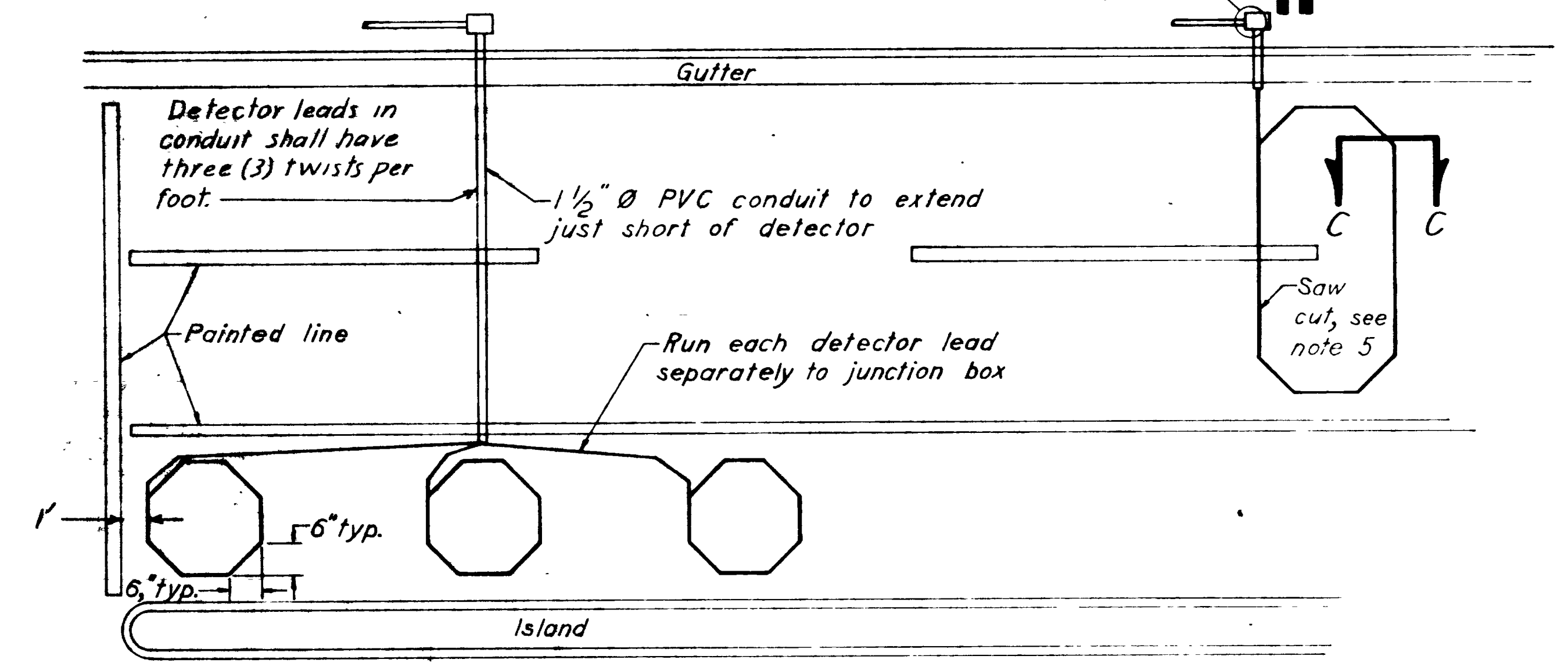
LEGEND:

1. Round pole plate.
2. 1/2" x 12" pipe, thd both ends
3. 1/2" plain elbow.
4. 1/2" Neoprene washer
5. 1/2" Lock nipple
6. 1/2" 90° Elbow with locking device
7. 3/4" stainless steel band, 2 wraps
8. Pole shaft (Mast arm)
9. 1/2" tee with set screw
10. 1/2" pipe, thd on one end only
11. 4 1/2" inside diameter pole top mounted terminal comp
12. 4 1/2" inside diameter adapter
13. Pipe shaft (B-0)
14. 1/2" ornamental cap
15. 1/2" lock nut
16. 1/2" pipe, thd both ends, cut to size

UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH			
TRAFFIC DESIGN			
Traffic Signals			
OGDEN			
Pedestrian Signal Assembly Detail			
DESIGNED	K.F. Herzog	CHECK	10-76 PH
DRAWN	K.F. Herzog	CHECK	10-76 PH
QUANT	K.F. Herzog	CHECK	11-76 PH
APPROVAL	10-76	11-76	11-76
RECOMM	10-76	11-76	11-76
APPROVED	11-76	11-76	11-76
NO.	B*	A*	REMARKS
REVISIONS			
PROJECT NUMBER	HHS-0025(2)	5-61	23 OF



Magnetic Detector



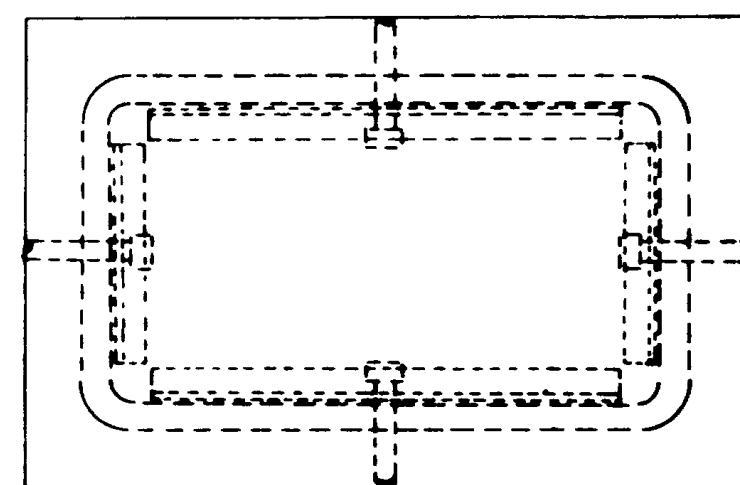
Loop Detector

Notes:

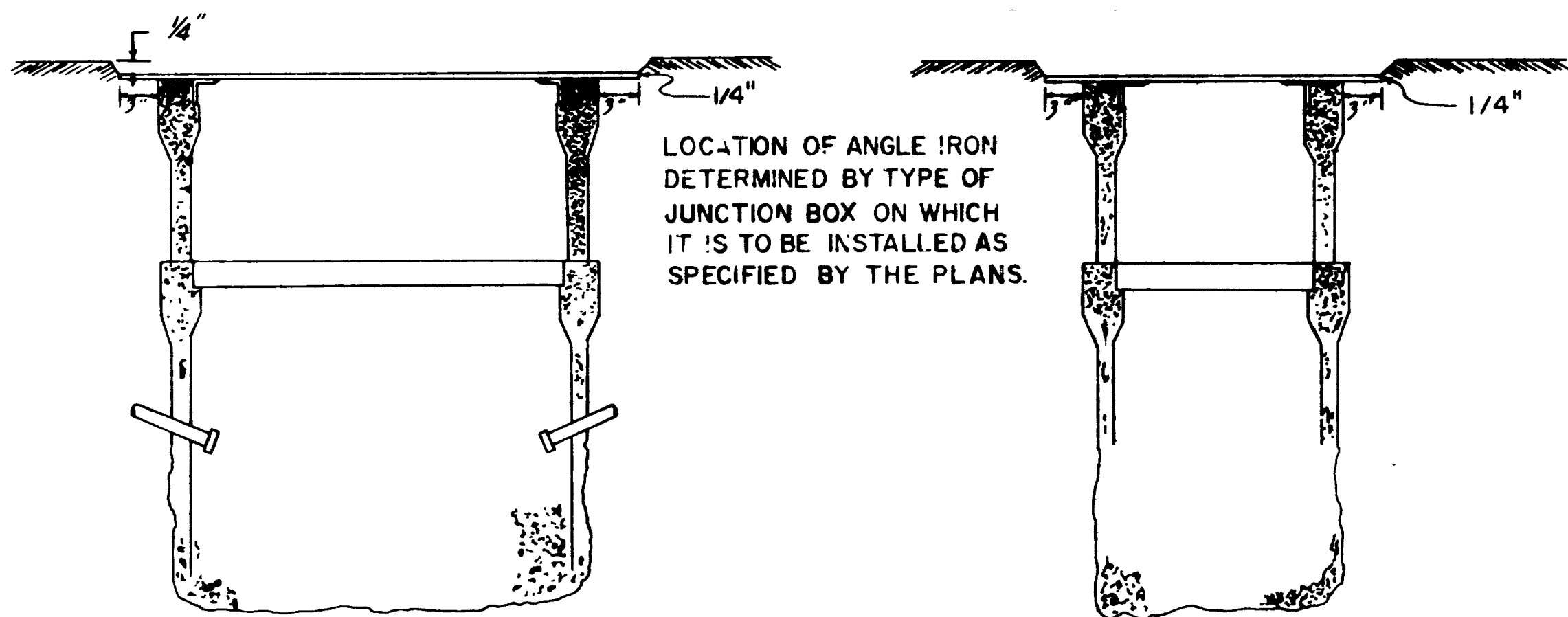
1. Traffic shall not be blocked during peak hours of 7:00 A.M. to 9:00 A.M. & 4:00 P.M. to 6:00 P.M.
2. Material removed to place detector must be replaced by specified material within 8 hours.
3. Contractor must provide traffic erosion protection for new surface until hardened.
4. All lanes must be reopened as soon as practical.
5. Place all conductors & conduit in saw cut. Cable or wire must be placed at bottom of dry slot. Epoxy seal not containing acetate solvent shall be used to close saw cut.

UTAH STATE DEPARTMENT OF HIGHWAYS			
TRAFFIC DESIGN			
TRAFFIC SIGNALS			
OGDEN			
DETECTOR DETAIL			
DESIGNED	K.F. Herzog	CHECK	10-74 PH
DRAWN	K.F. Herzog	CHECK	PH 10-74
QUANT	K.F. Herzog	CHECK	10-74 PH
APPROVED	10-74	DATE	11/20/74
BY	Site Engineer	DATE	11-20-74
PROJECT	HHS-0005(2)	SHEET	24 OF

NO.	BY	DATE	REMARKS

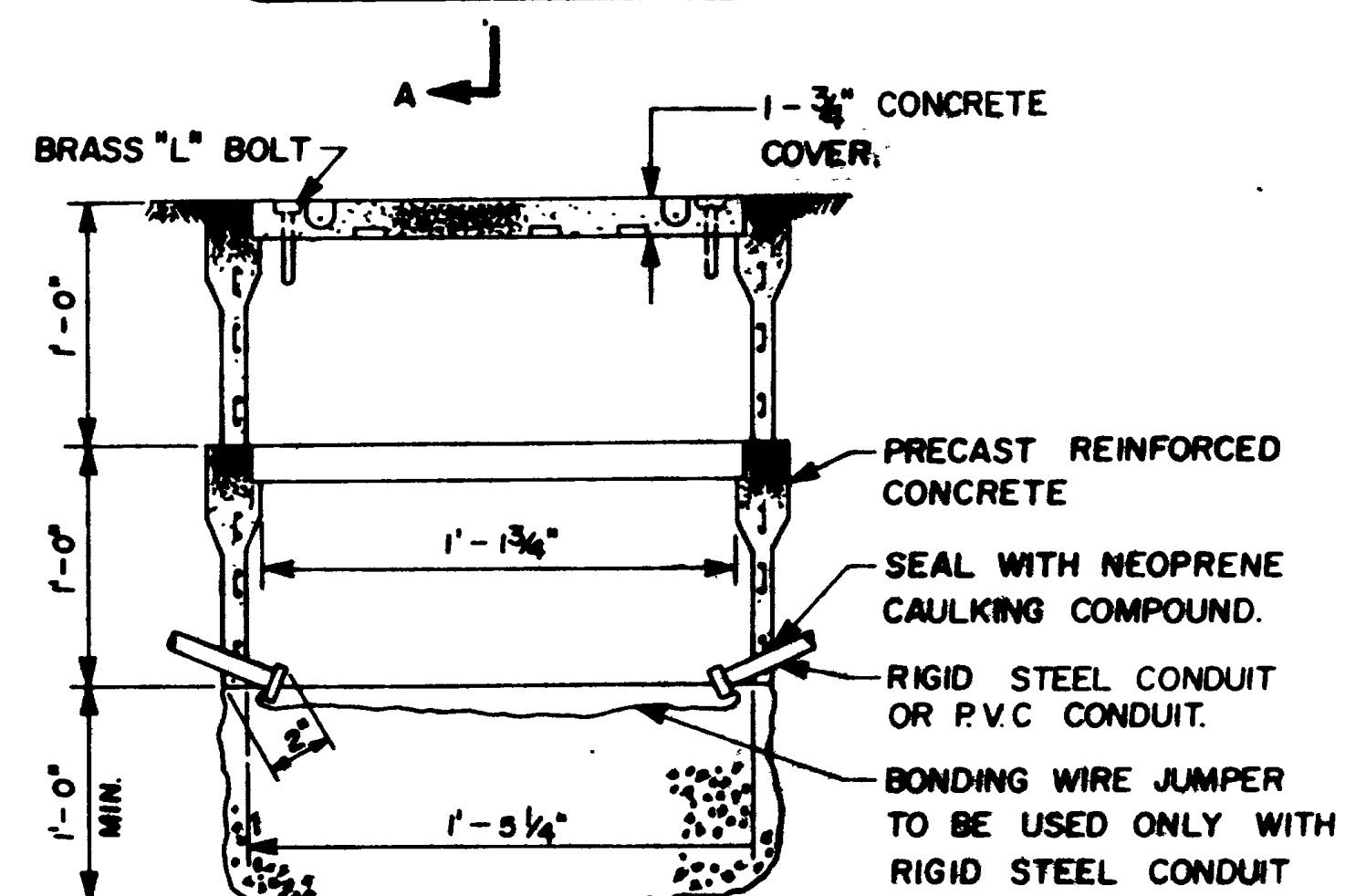
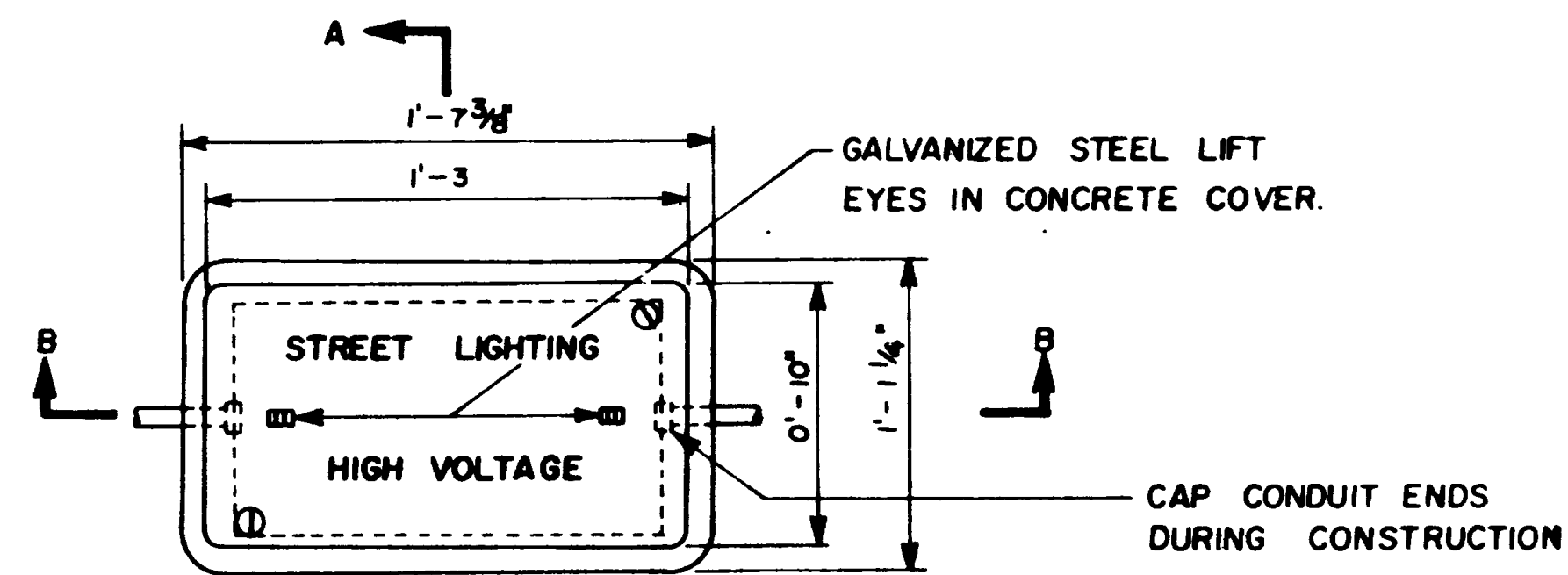


NOTE:
ANGLE IRON SHALL BE 1 1/2" x 1 1/2" x 1/4".
WELDED TO THE STEEL COVER.

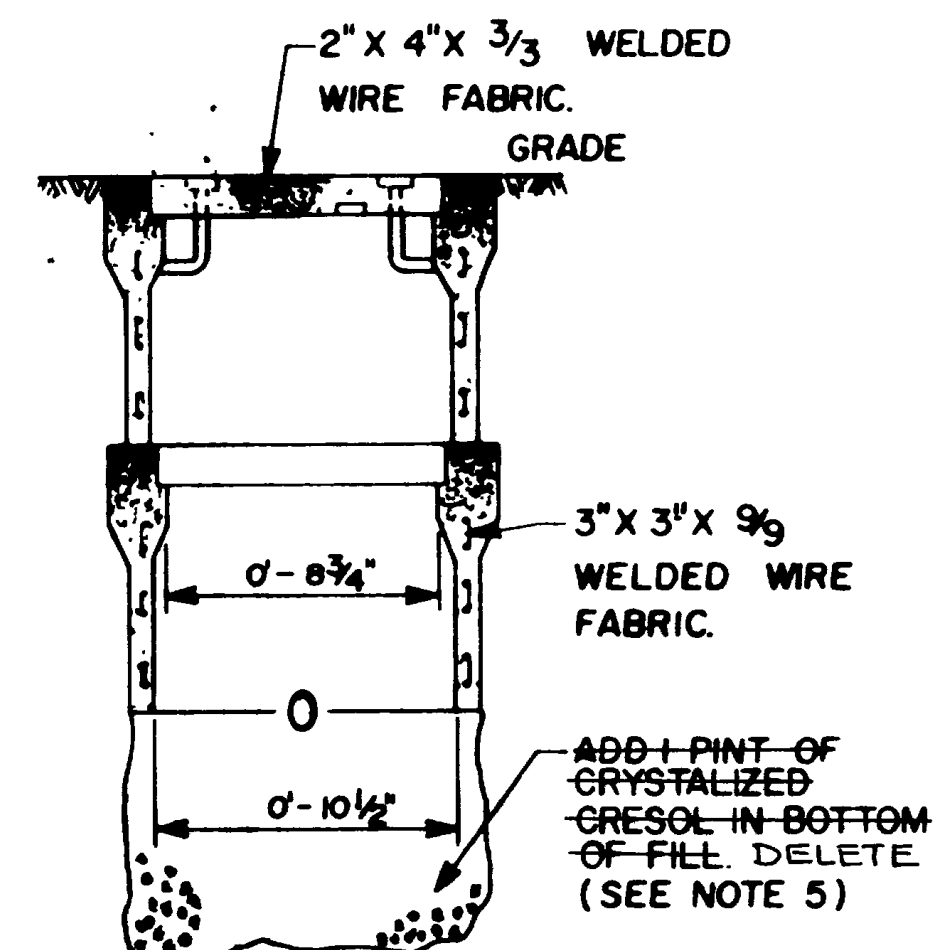


LOCATION OF ANGLE IRON
DETERMINED BY TYPE OF
JUNCTION BOX ON WHICH
IT IS TO BE INSTALLED AS
SPECIFIED BY THE PLANS.

STEEL COVER DETAIL

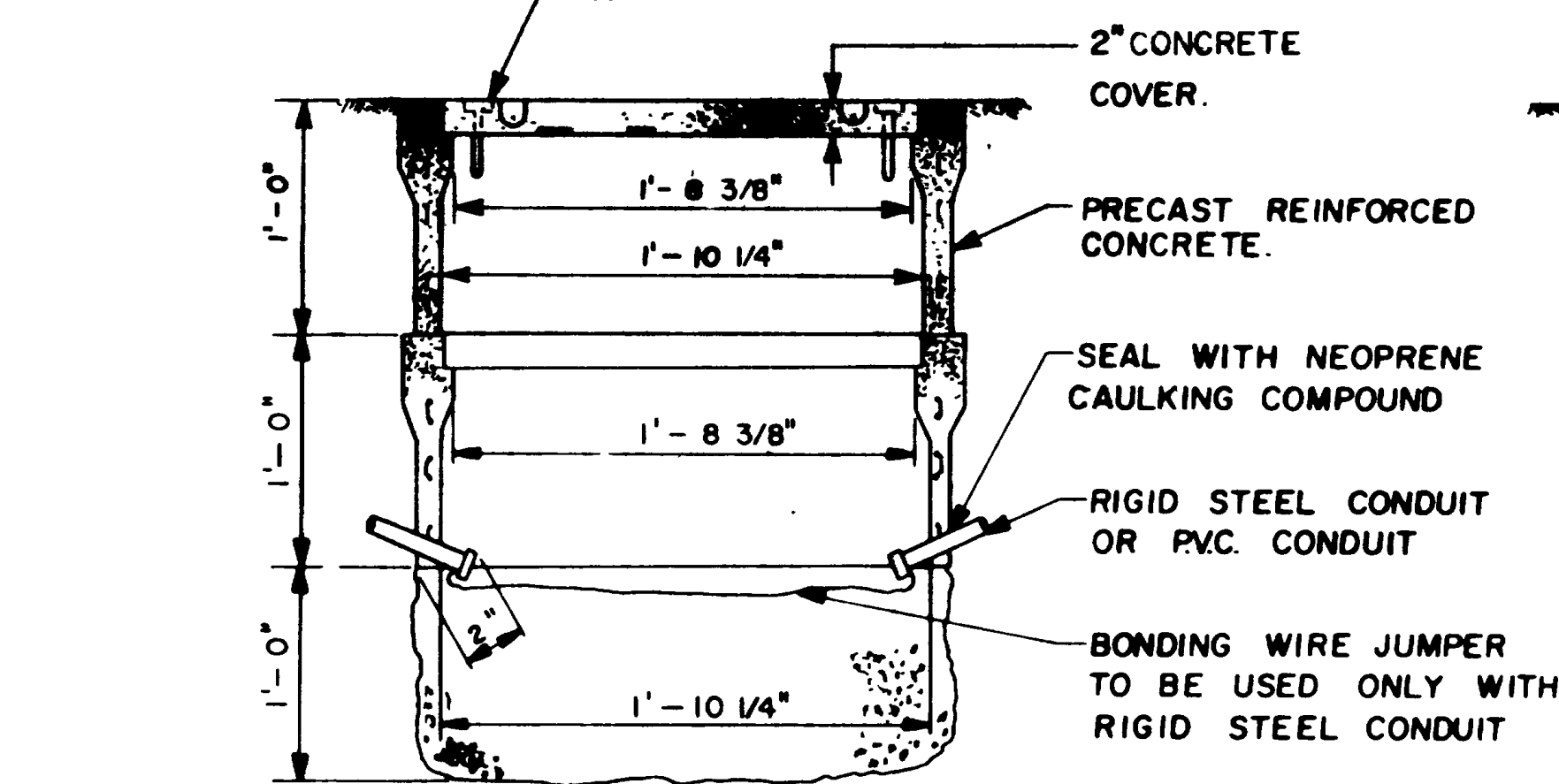
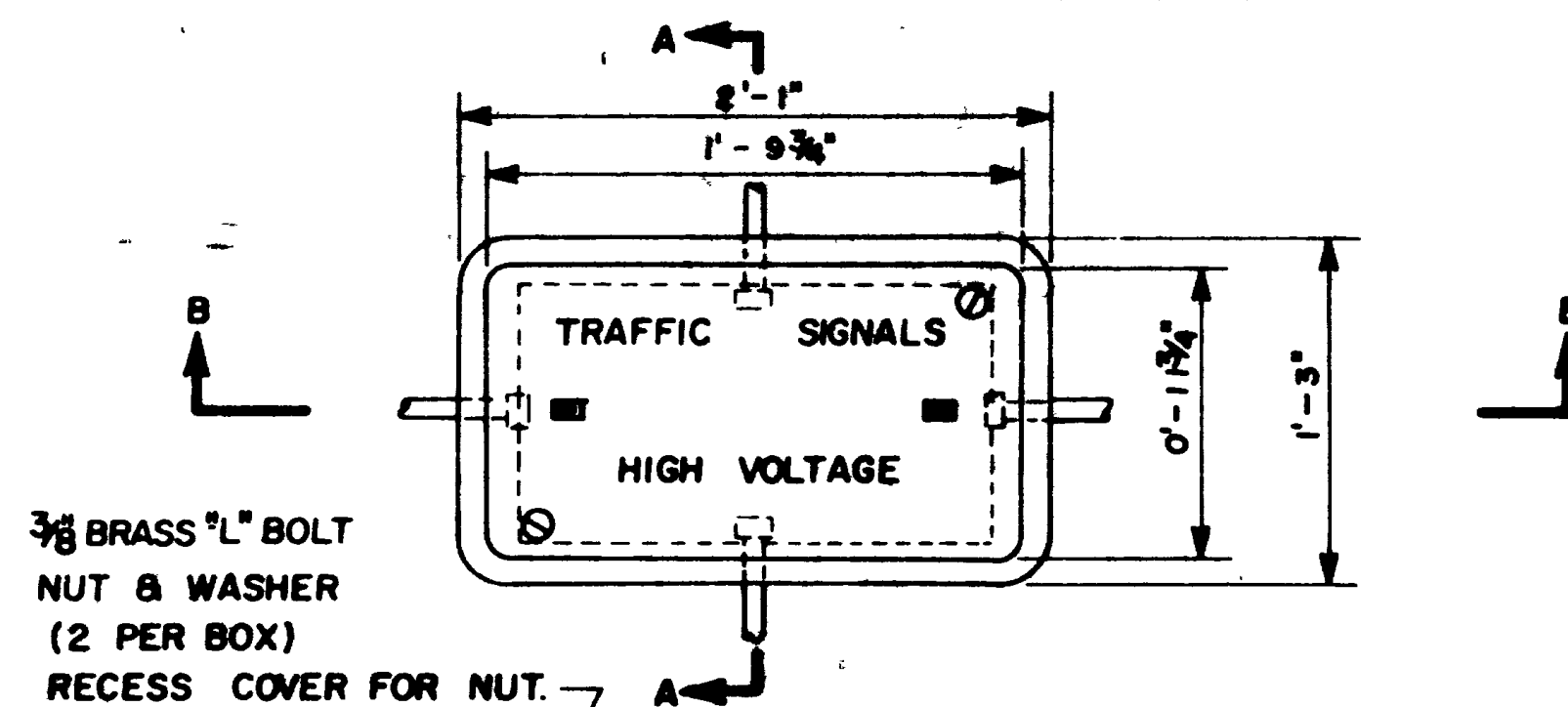


SECTION B-B

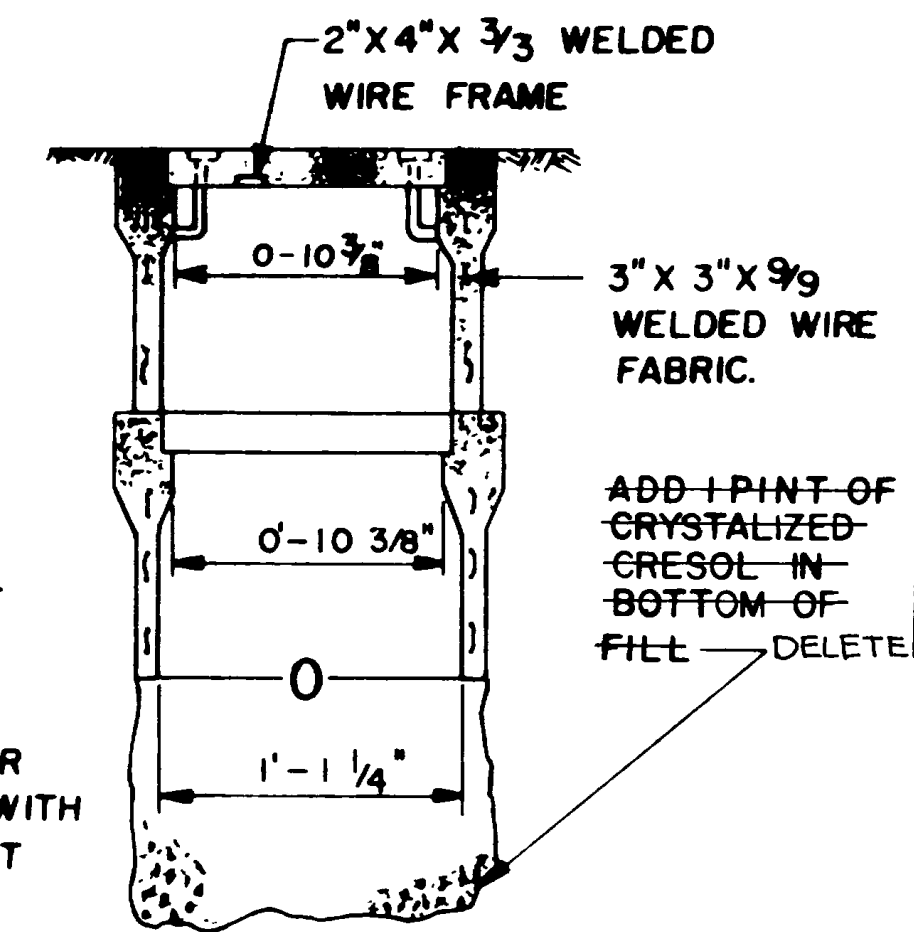


SECTION A-A

TYPE III



SECTION B-I



SECTION A-A

TYPE IV

GENERAL NOTE:

1. USE STEEL COVER AS SHOWN WHEN BOX IS TO BE INSTALLED WHERE SUBJECT TO TRAFFIC LOADS. STEEL COVER SHALL HAVE EMBOSSED NON-SKID PATTERN WHEN BOX IS PLACED IN PAVED OR SIDEWALK AREA.
2. CONDUIT HOLES IN JUNCTION BOX SHALL BE CAST AT TIME OF PRECASTING OR DRILLED AT TIME OF PLACEMENT WITH NO STRUCTURAL DAMAGE TO BOX.
3. TOP OF JUNCTION BOXES SHALL BE FLUSH WITH SURROUNDING GRADE OR TOP OF TOPOGRAPHY & SHALL BE PLACED FOR PROTECTION AS DIRECTED BY ENGINEER.
4. BONDING JUMPER REQUIRED WITH RIGID STEEL CONDUIT.
5. USE GRANULAR BACKFILL BORROW FOR JUNCTION BASE.
6. PROVIDE SEALING COMPOUND ON HIGH END OF EACH CONDUIT RUN.

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

TRAFFIC SIGNALS

OGDEN

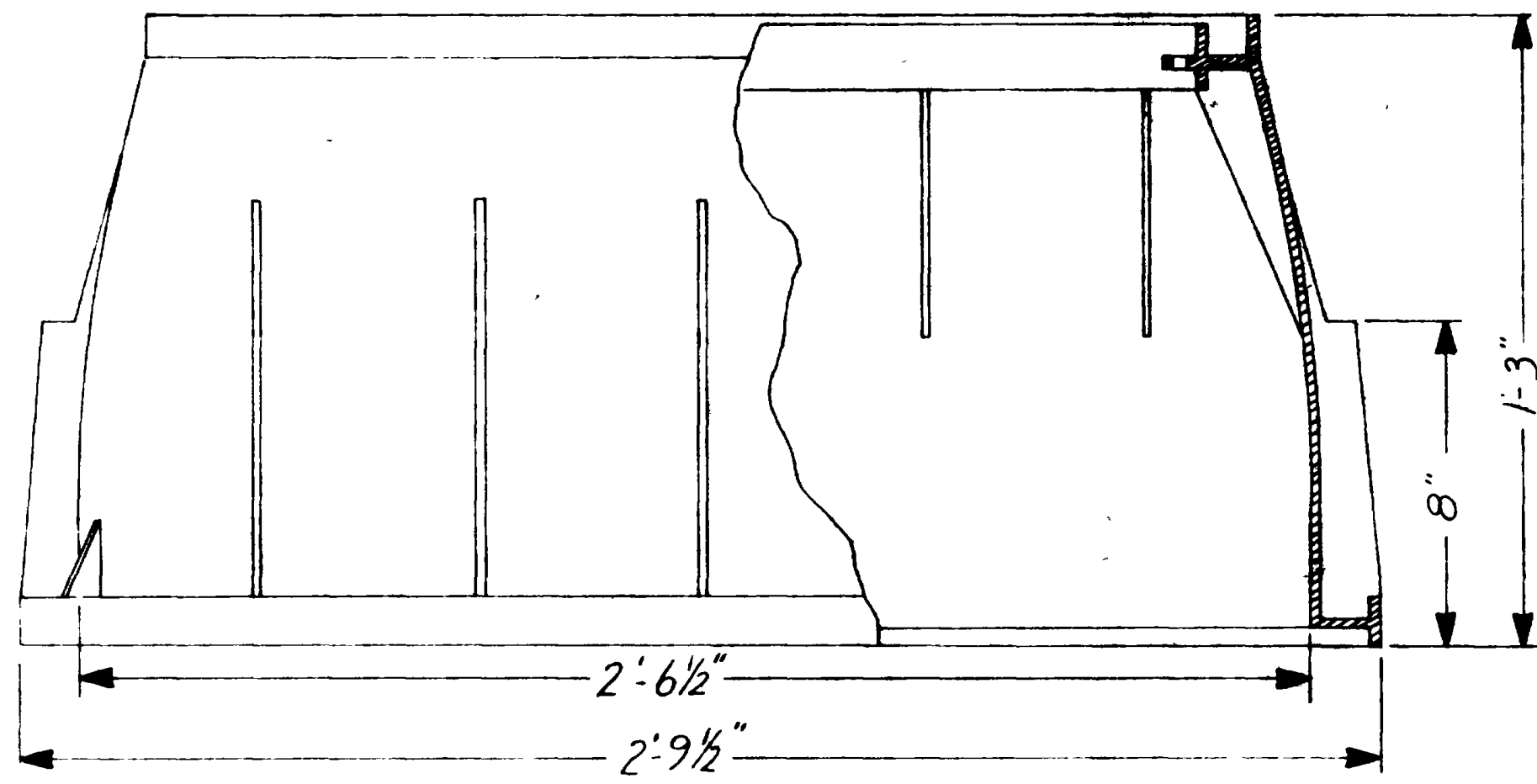
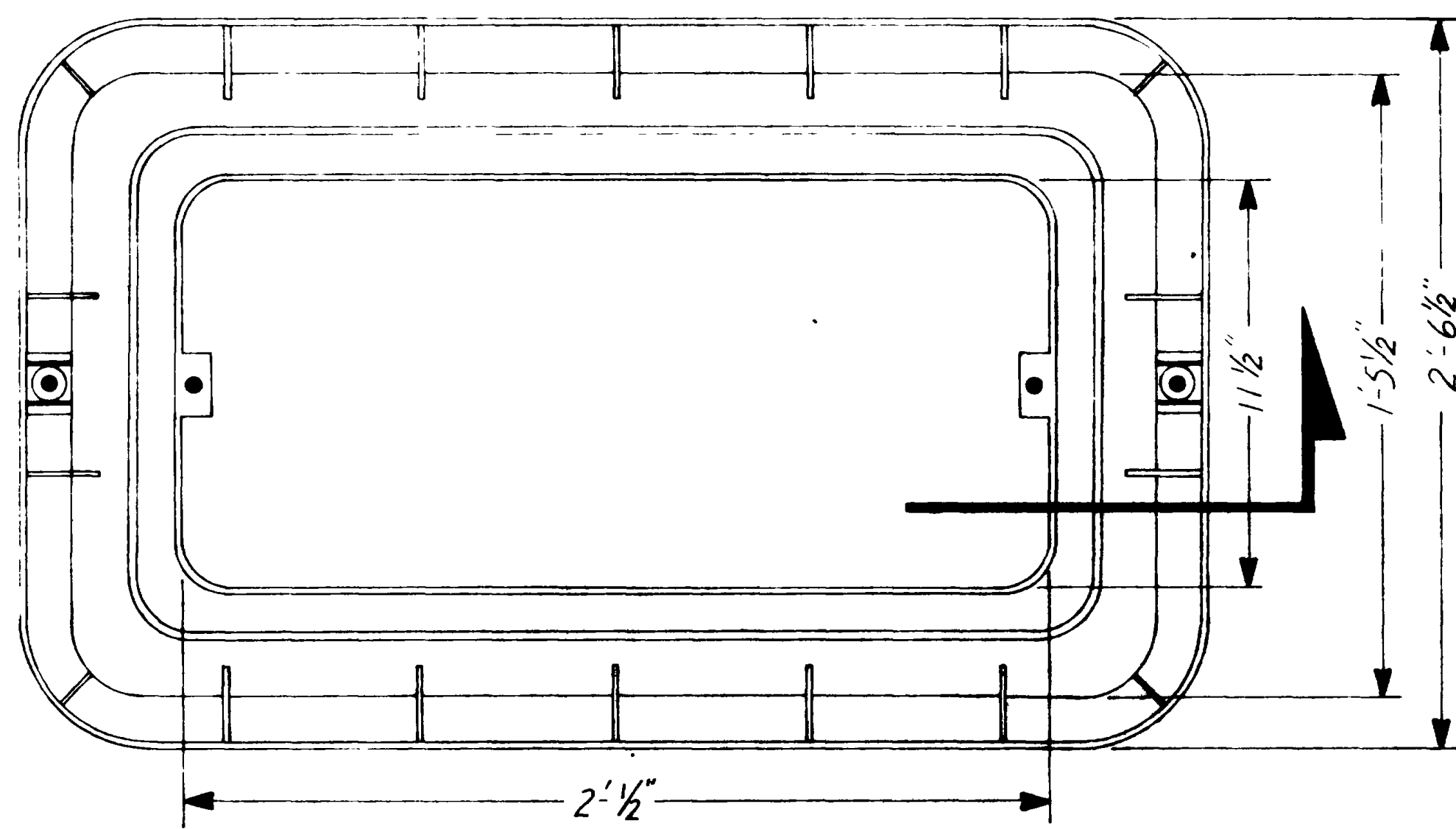
JUNCTION BOX DETAIL

DESIGNED K.F. Herzog	CHECK 10-76 PH	REVIEW
DRAWN K.F. Herzog	CHECK 10-76 PH	DESIGN 11-20-74
QUANT. K.F. Herzog	CHECK 10-76 PH	

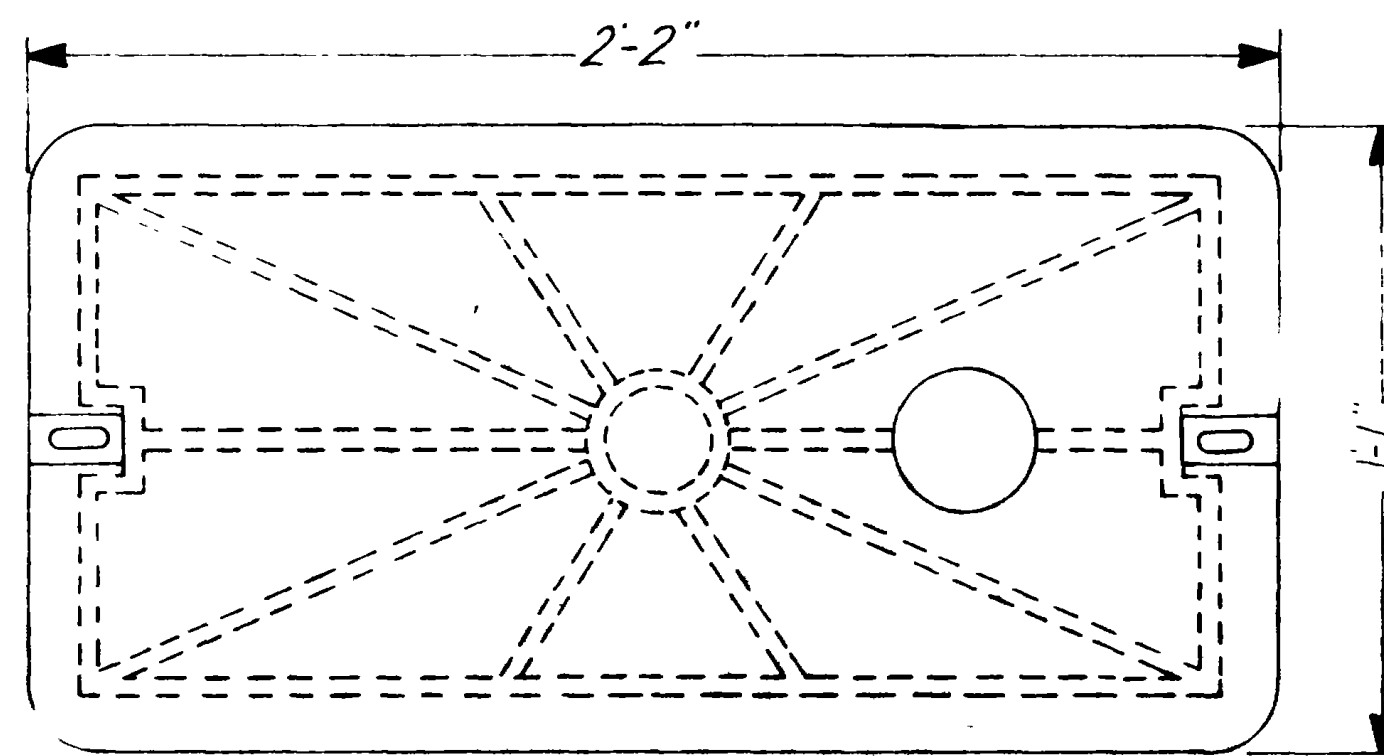
APPROVAL	10-76	<i>[Signature]</i>
RECOMM	10-76	<i>[Signature]</i>
APPROVED	10-76	<i>[Signature]</i>

PROJECT NUMBER	HHS-0005(2)	S-61	25(1)
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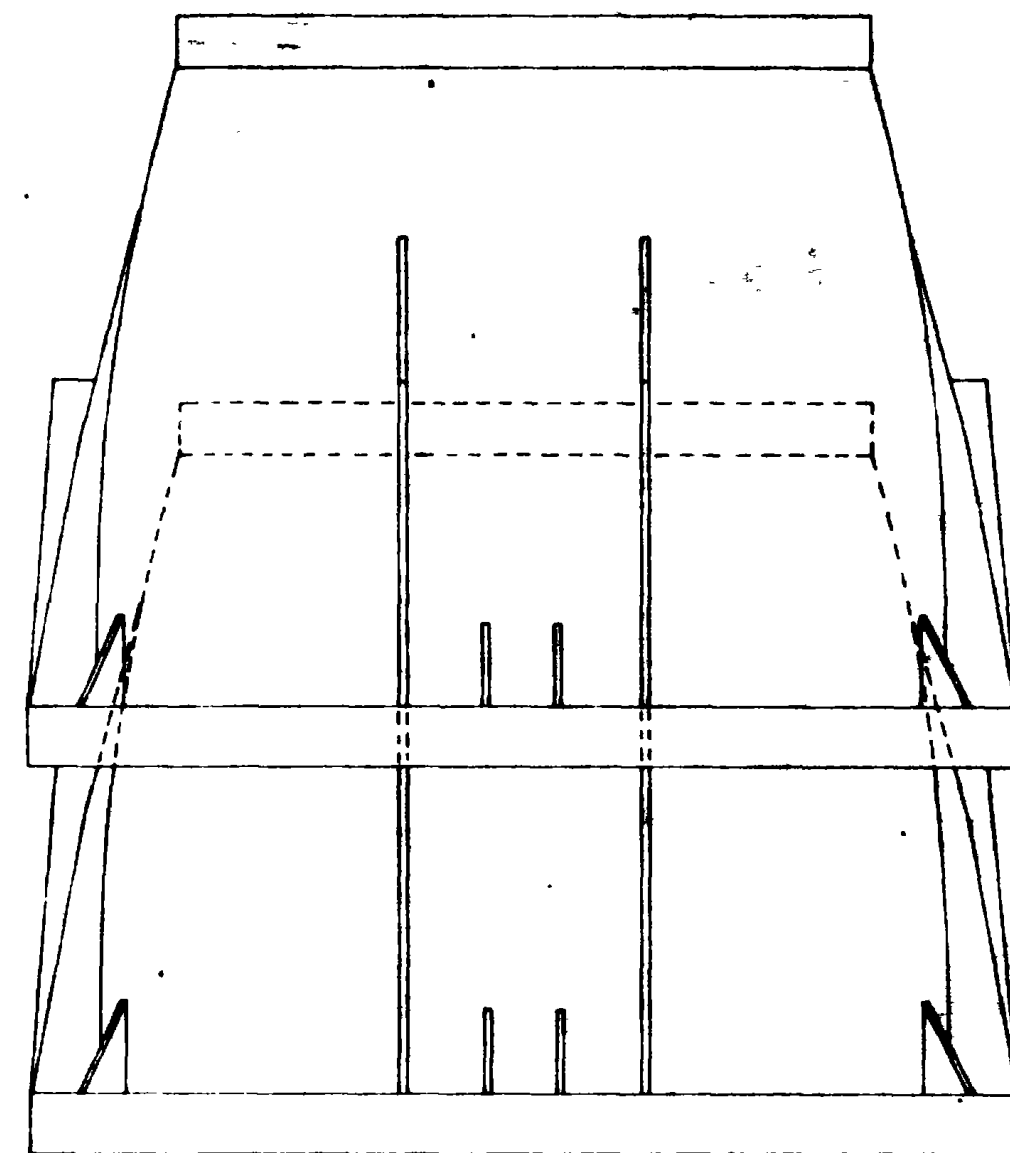
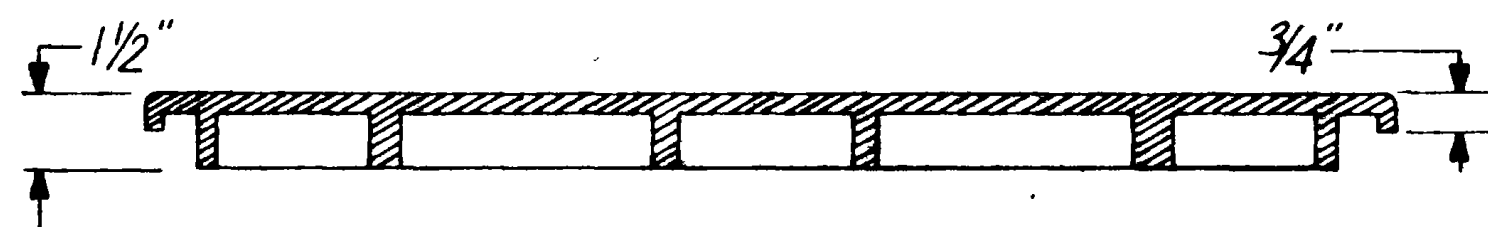
NO.	BY	DATE	REMARKS



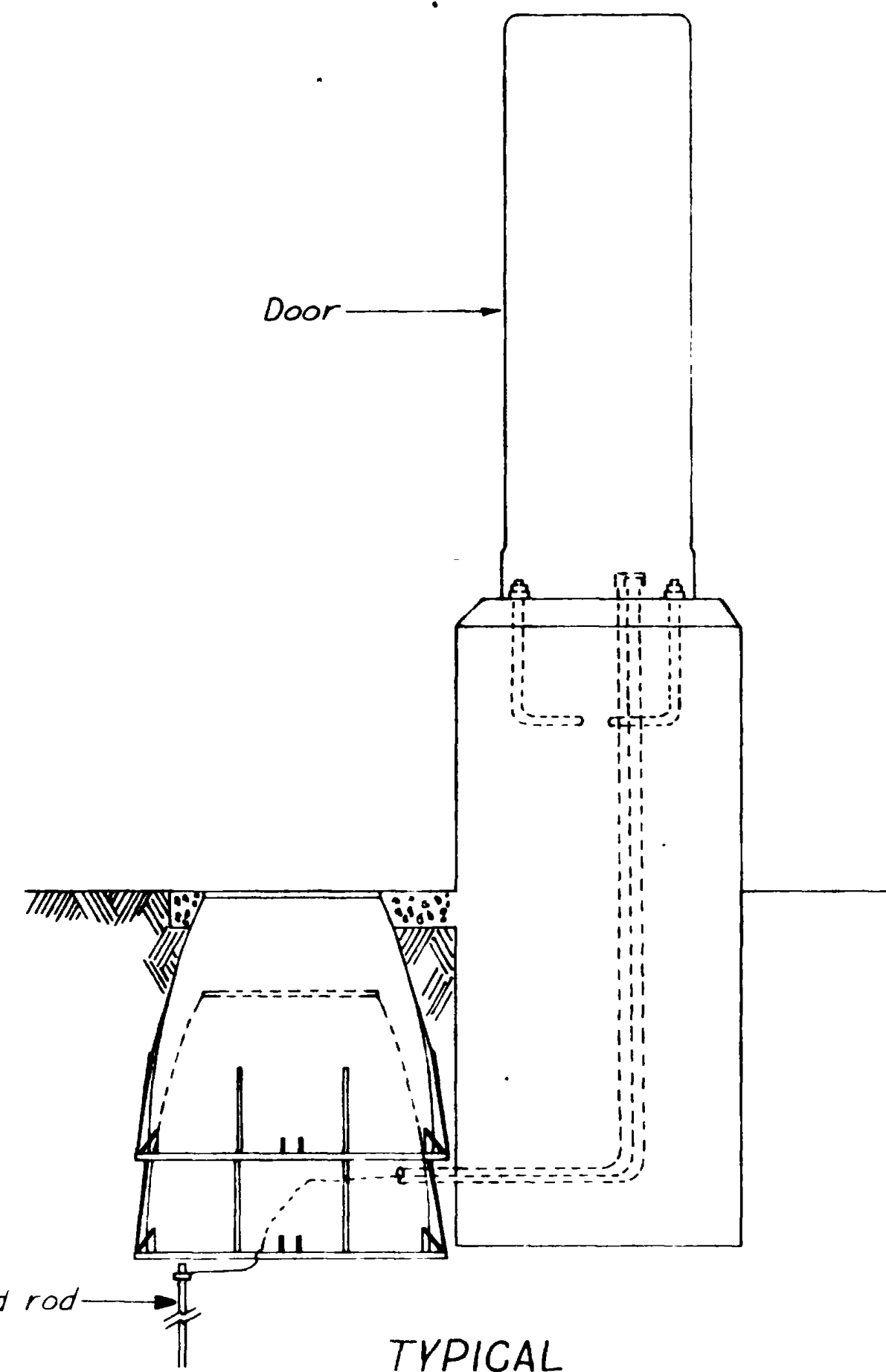
BODY



COVER



DOUBLE JUNCTION BOX



TYPICAL

NOTES:

- 1 This junction box shall be used at all controller locations.
- 2 Conduit holes in junction box shall be drilled at time of placement with no structural damage to box.
- 3 Top of junction box shall be flush with surrounding grade or top of topography and shall be placed for protection as directed by engineer.
- 4 Bonding jumper required with rigid steel conduit.
- 5 Use granular backfill borrow for junction box base.
- 6 Provide sealing compound on high end of each conduit run.
- 7 Copper coated steel ground rod required for grounding controller cabinet.
- 8 Shop drawings required in accordance with section 510.04 of the state of Utah Standard Specifications for Road and Bridge Construction, 1970.

SPECIFICATIONS:

COVER:

- Made from high density polyethylene with ultra violet inhibitors.
- ABS-maximum toughness with high modulus-impact 90 ft lbs.
- Non-skid surface
- Vandal-resistant bolts, recessed.
- Will support 300 lb/ft.² with 1/4" maximum deflection

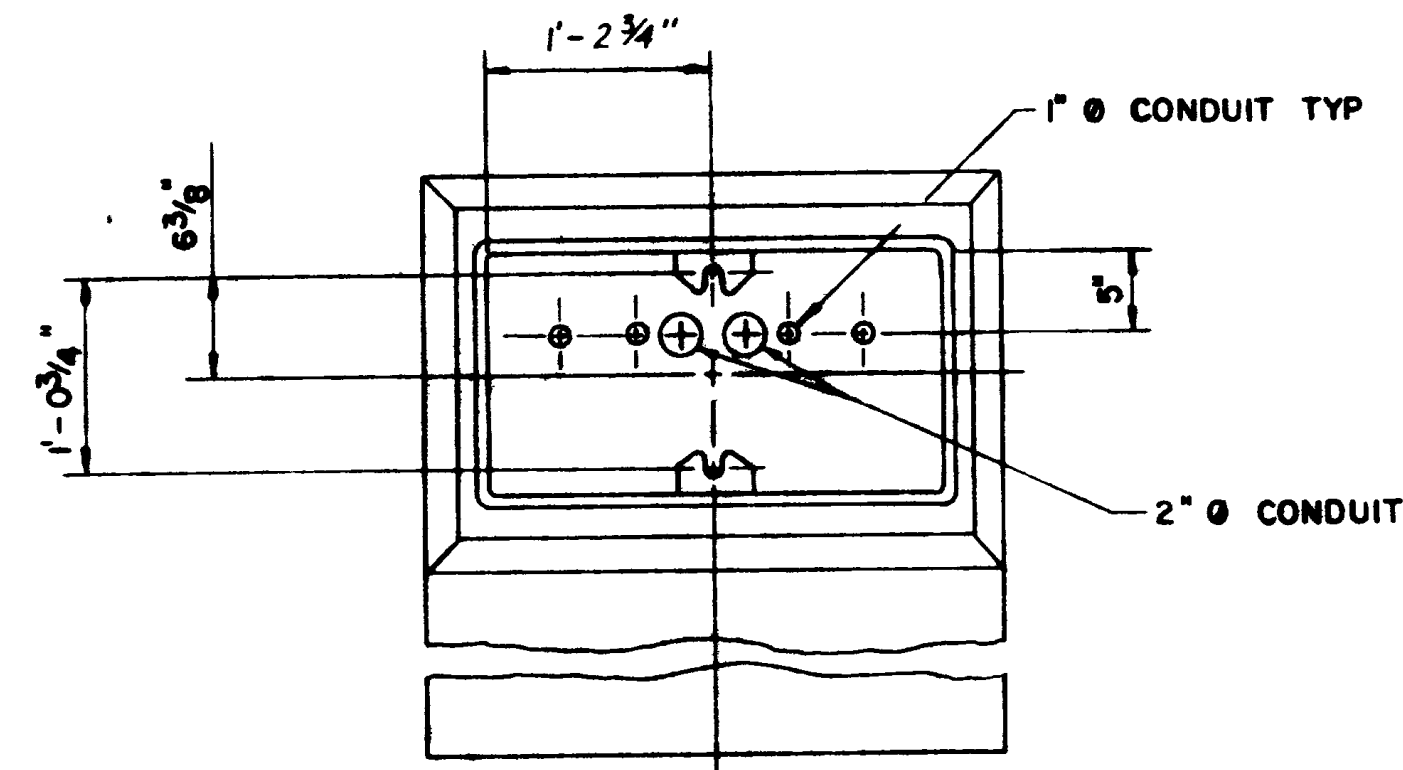
BODY:

- Made from high density polyethylene with ultra violet inhibitors
- Minimum wall thickness .250"

TYPE V

UTAH STATE DEPARTMENT OF HIGHWAYS			
SALT LAKE CITY, UTAH			
TRAFFIC DESIGN			
TRAFFIC SIGNALS			
OGDEN			
CONTROLLER BASE JUNCTION BOX			
DESIGNED	K.F. Herzog	CHECK	10-76 PH
REVIEW			
QUANT	K.F. Herzog	CHECK	10-76 PH
RECOMM			
APPROVAL	10-76	10-76	PH
APPROVED	10-76	10-76	PH
PROJECT NUMBER	HHS-0005-(2)	DATE	5-61
		DESIGNED BY	26 OF

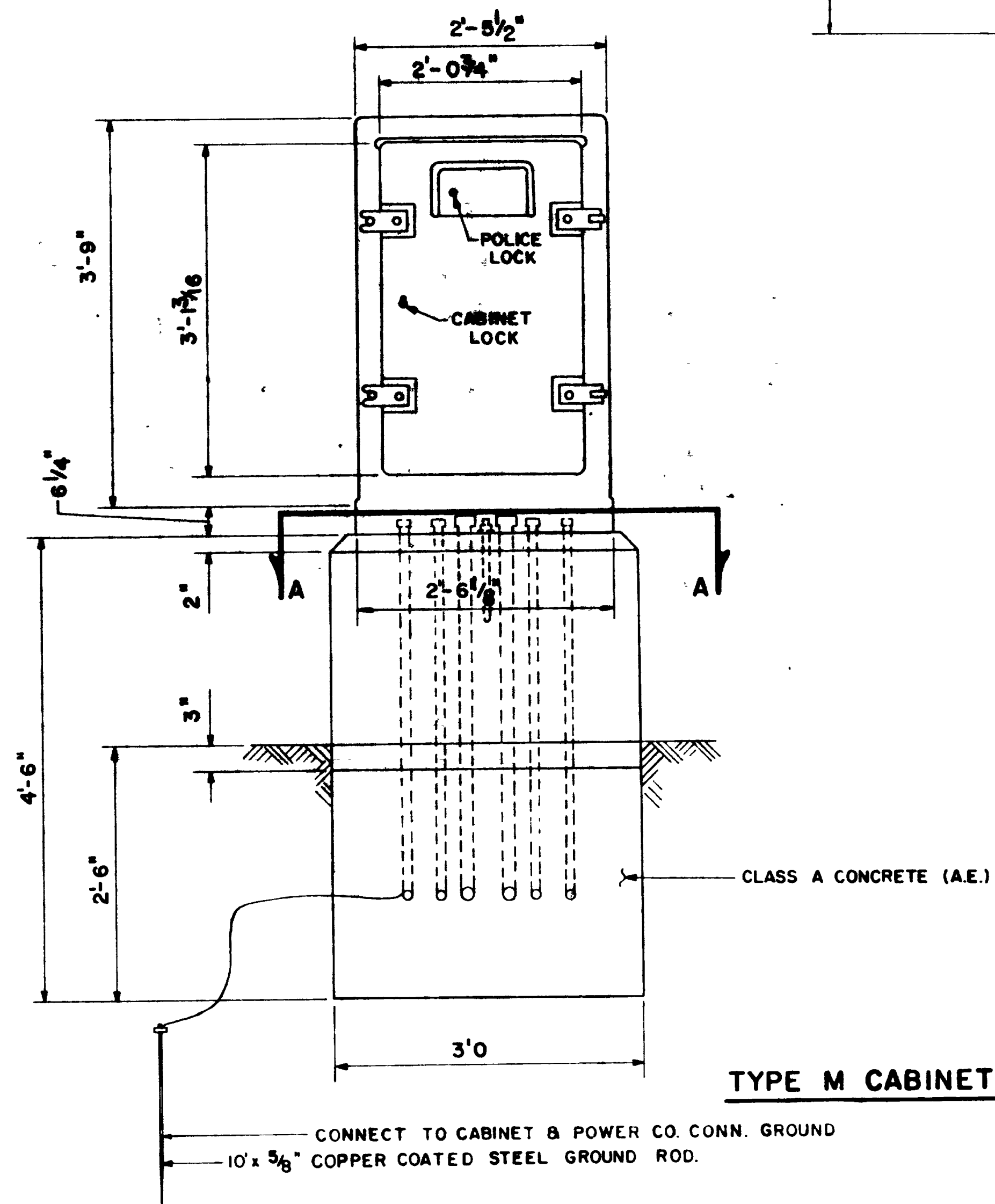
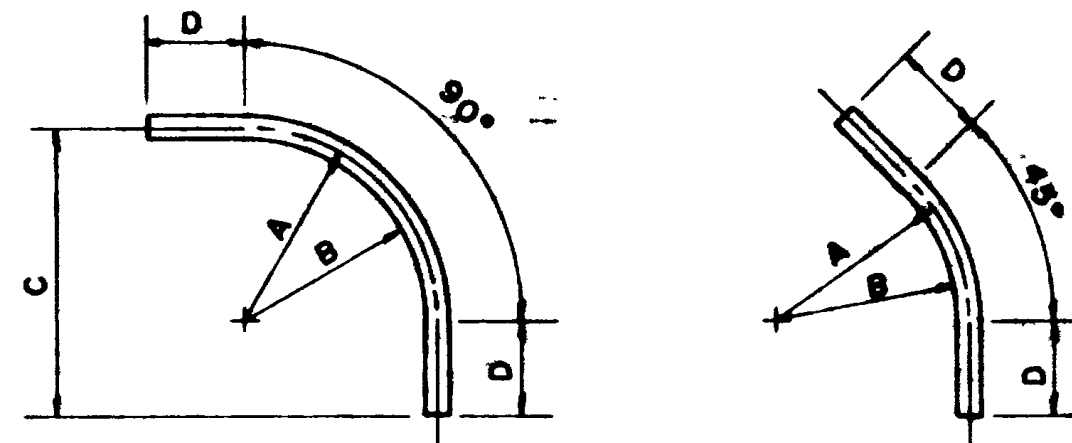
End anchor bolts have been deleted.



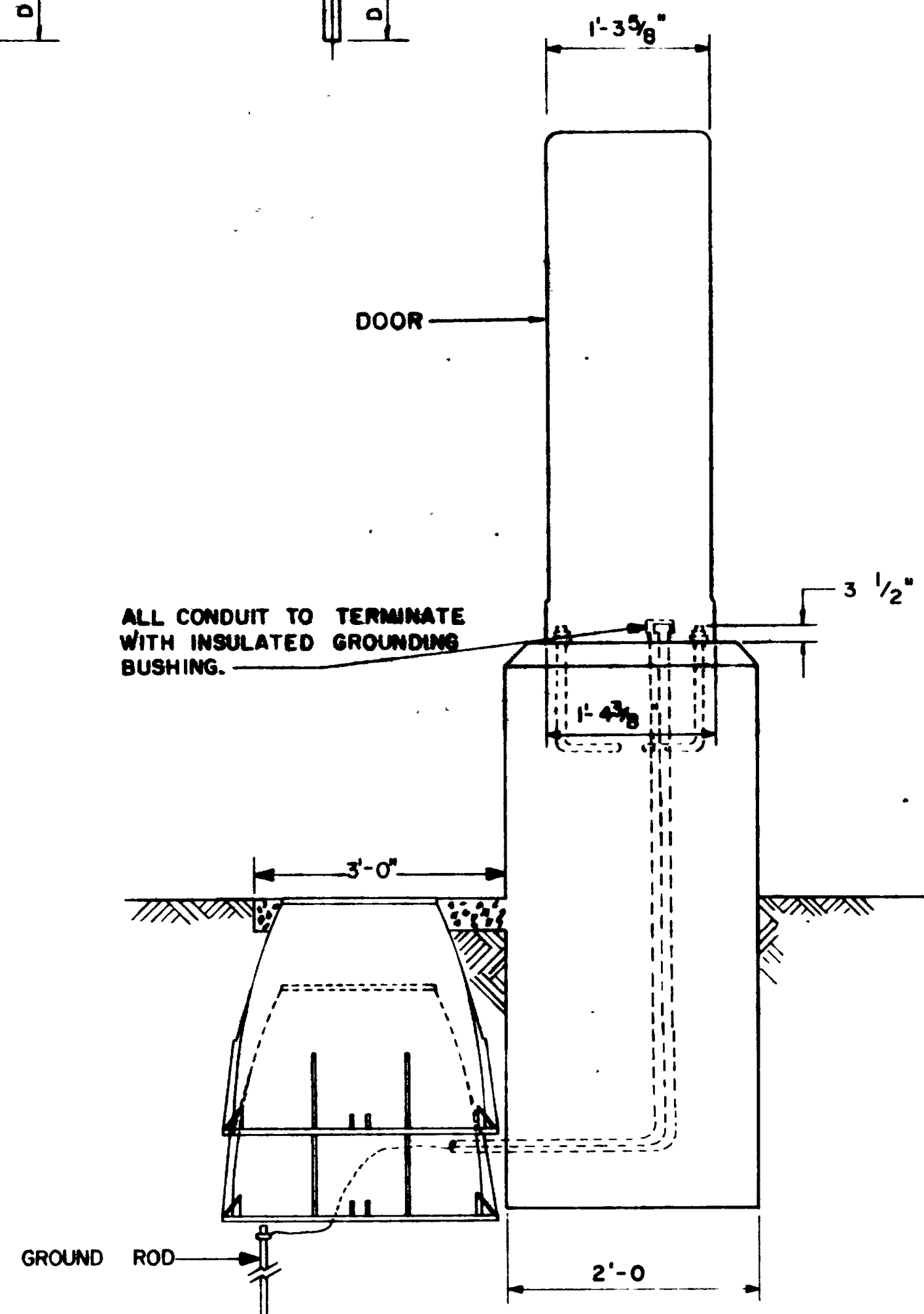
SECTION A-A

NOM. SIZE	A	B	C	D
1/2"	4"	3 3/8"	6 3/4"	2 3/4"
3/4"	4 1/2"	4"	7 1/2"	3"
1"	5 3/4"	5 1/8"	8 3/4"	3"
1 1/4"	7 1/4"	6 7/16"	10 1/4"	3"
1 1/2"	8 1/4"	7 5/16"	1'0"	3 3/4"
2"	9 1/2"	8 5/16"	1'-2 1/2"	5"
2 1/2"	10 1/2"	9 1/8"	1'-3 1/2"	5"
3"	1'-1"	11 1/4"	1'-7 3/4"	6 3/4"
3 1/2"	1'-3"	1'-1"	1'-10"	7"
4"	1'-4"	1'-3 3/4"	1'-11"	7"

MINIMUM CONDUIT BENDS



TYPE M CABINET

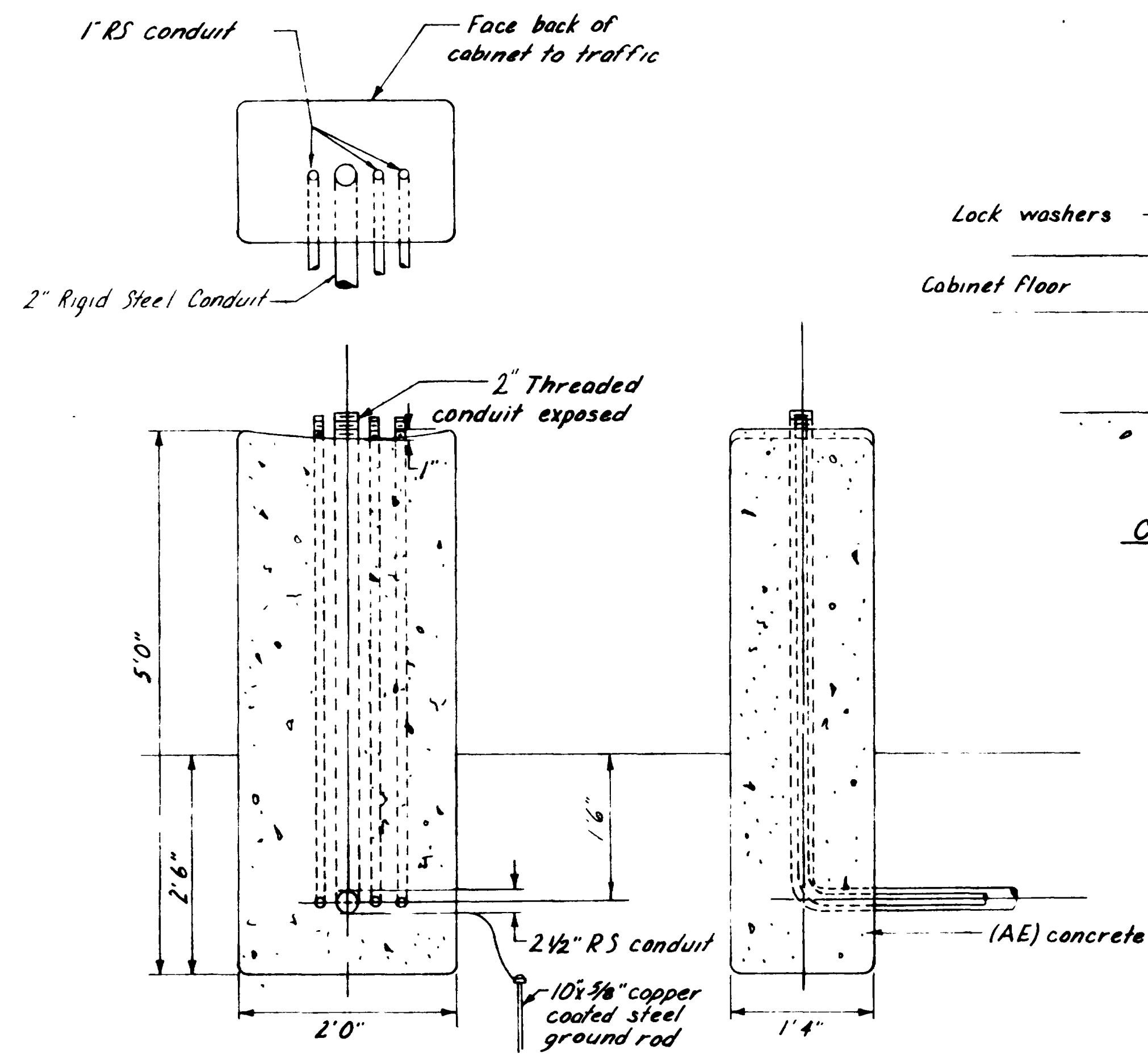


M CABINET

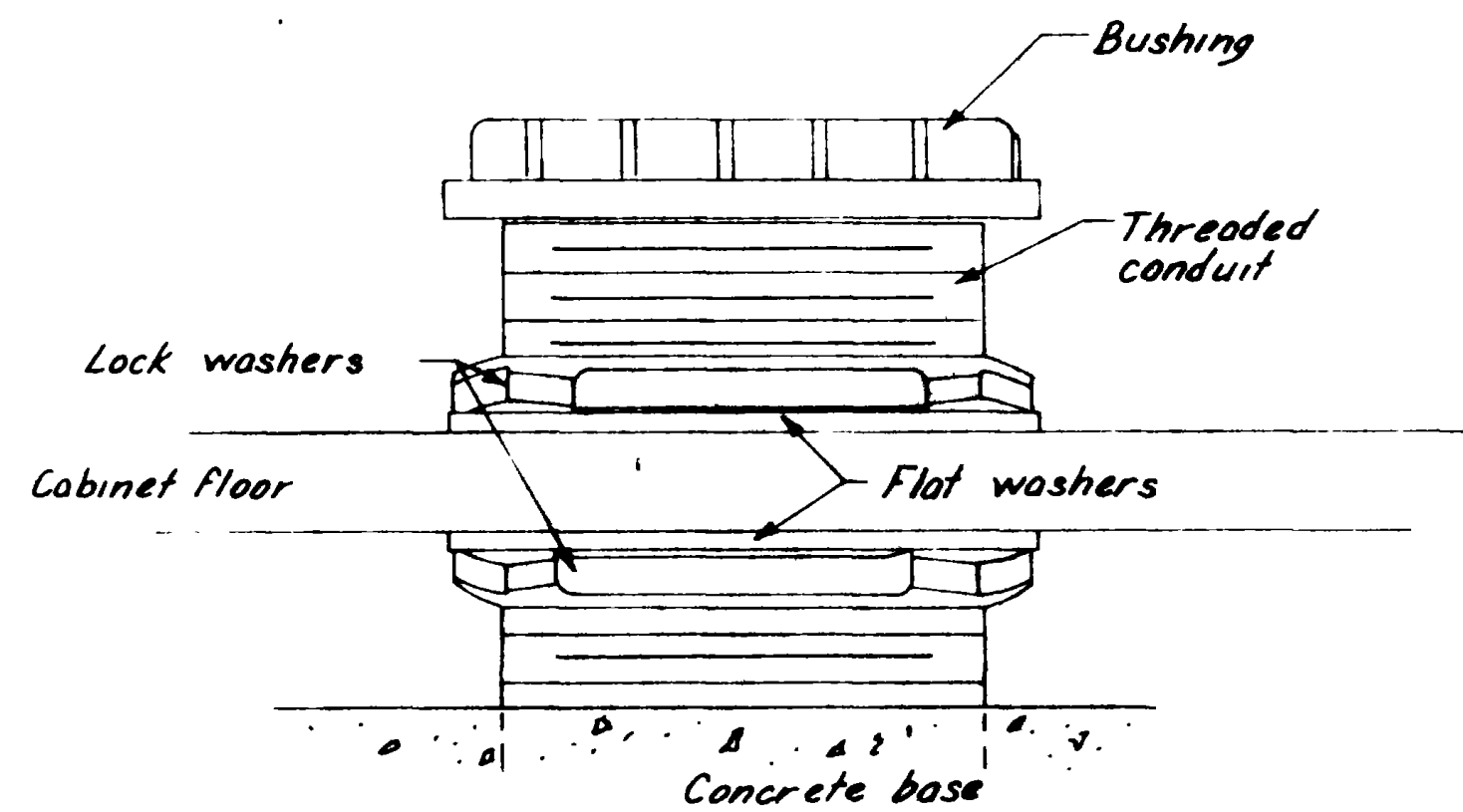
NOTES:

- 1- THE CABINET SHALL BE FABRICATED OF CAST ALUMINUM OR 14 GAUGE STEEL AND SHALL CONTAIN STRONG SUPPORTS FOR HOLDING THE CONTROLLER UNIT.
- 2- THE CABINET SHALL BE EITHER BURNISHED ALUMINUM OR GALVANIZED STEEL IN ACCORD WITH ASTM A-123
- 3- THE GROUNDED SIDE OF THE POWER SUPPLY SHALL BE GROUNDED TO THE CONTROL CABINET IN AN APPROVED MANNER.
- 4- THE CABINET SHALL HAVE A PANEL BEHIND THE AUXILIARY DOOR CONTAINING THE FOLLOWING SWITCHES:
 - A. MAIN POWER SWITCH DISPATCHER, SIGNAL LIGHTS & CONTROLLER SHALL BE DE-ENERGIZED WHEN MAIN POWER SWITCH IS OFF.
 - B. AUTOMATIC TO FLASHING SWITCH (AND VICE VERSA) SIGNAL LIGHTS OFF WITH CONTROLLER RUNNING.
- 5- THE CABINET SHALL BE EQUIPPED WITH A THERMOSTATICALLY CONTROLLED VENTILATION FAN.
- 6- ALL WIRING SHALL BE NEAT AND FIRM AND THE CABINET SHALL MOUNT THE FOLLOWING:
 - A. TERMINAL WITH 30 AMP CIRCUIT BREAKER FOR POWER SUPPLY LINE. TERMINAL UNFUSED, FOR NEUTRAL SIDE OF POWER SUPPLY LINE.
 - B. TERMINALS FOR CONDUCTORS OF SIGNAL CABLES, ONE FOR EACH SIGNAL CIRCUIT AND TWO OR MORE TERMINALS FOR THE COMMON CONDUCTORS.
 - C. TERMINALS FOR DETECTORS AND PEDESTRIAN PUSH BUTTON CABLES.
 - D. RADIO LINE FILTER FOR FILTERING AC LIGHTS POWER FOR SOLID STATE LIGHT CONTROL.
 - E. FAILSAFE CONTROL.
 - F. THYRECTOR FOR FILTERING LIGHTNING OR HIGH VOLTAGE SURGES TO GROUND FOR PROTECTION OF THE COMPONENTS.
 - G. MOUNTING BASES FOR SIGNAL RELAYS OR SIGNAL CONTROL UNITS.
- 7- THE CONTROLLER EQUIPMENT AND TERMINALS SHALL BE SO ARRANGED WITHIN THE CABINET THAT THEY WILL NOT UPSET THE ENTRANCE, TRAINING OR CONNECTION OF INCOMING CONDUCTORS.
- 8- ALL FIELD TERMINALS SHALL BE SUITABLY IDENTIFIED.
- 9- ALL OUTGOING TRAFFIC CONTROL SIGNAL CIRCUITS SHALL BE OF THE SAME POLARITY AS THE LINE SIDE OF THE POWER SUPPLY. THE COMMON RETURN OF THE SAME POLARITY AS THE GROUND SIDE OF THE POWER SUPPLY.

UTAH STATE DEPARTMENT OF HIGHWAYS			
SALT LAKE CITY, UTAH			
TRAFFIC SIGNALS			
OGDEN			
TYPE "M" CONTROL CABINET			
DESIGNED K.F. Herzog	CHECK 10-74 PH	REVIEW	
DRAWN K.F. Herzog	CHECK 10-74 PH	DESIGN 10/6/1120-74	
QUANT K.F. Herzog	CHECK 10/74 PH		
APPROVAL 10-74	DATE	TRAFFIC SIGNALS	
APPROVED 10-74	DATE	TRAFFIC SIGNALS	Webster
NO	BY	DATE	REMARKS
REVISIONS			
PROJECT NUMBER	445-0005(2)	5-61-	27



F Controller Cabinet Base Detail

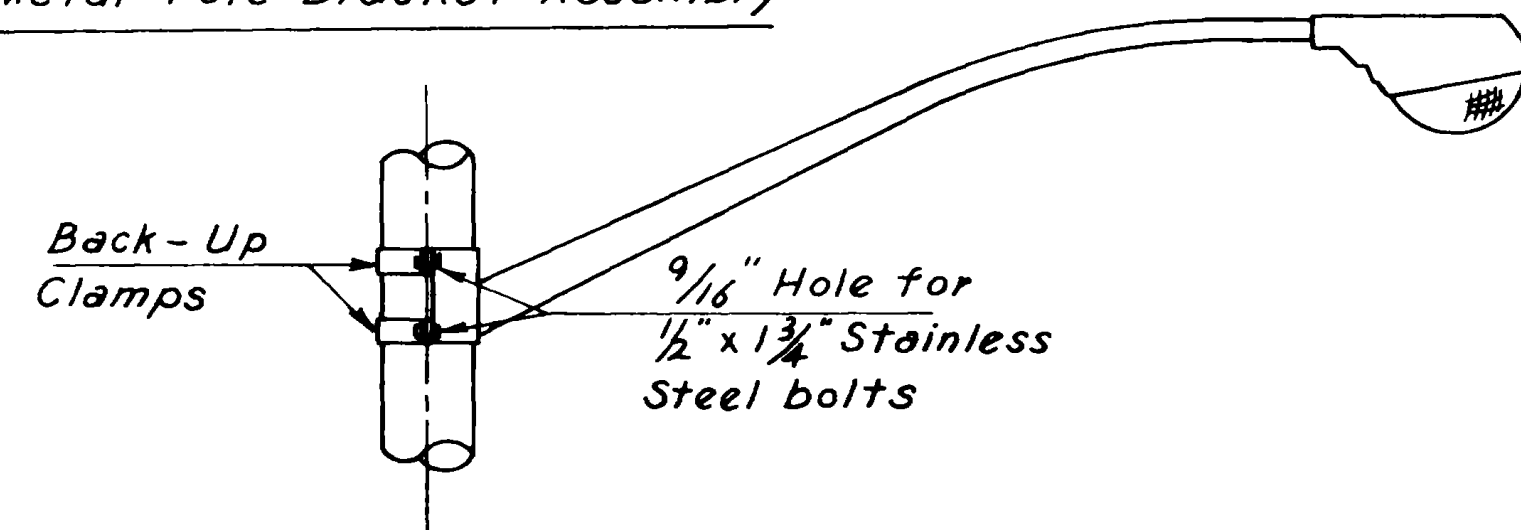


Cabinet Connection Detail

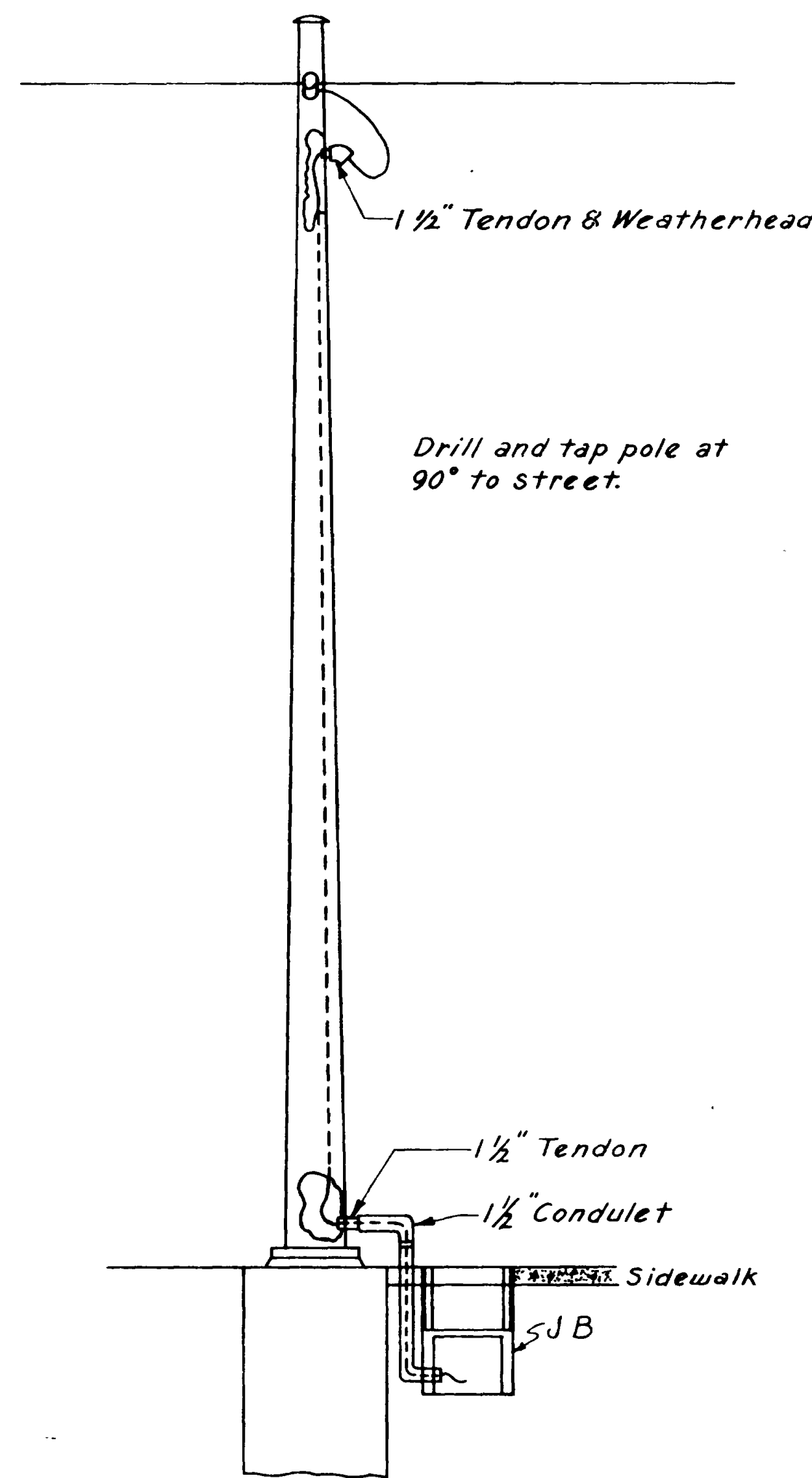
UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH			
TRAFFIC DESIGN			
TRAFFIC SIGNALS			
OGDEN			
<u>F-Controller Cabinet Base Detail</u>			
DESIGNED <i>K.F. Herzog</i>	CHECK <i>10-74 PH</i>	REVIEW	
DRAWN <i>K.F. Herzog</i>	CHECK <i>10-74 PH</i>	DESIGNED BY	<i>PH</i> 11-20-74
QUANT <i>K.F. Herzog</i>	CHECK <i>10-74 PH</i>	DATE	
APPROVAL REC'D MM	<i>10-74</i>	<i>[Signature]</i>	
APPROVED	<i>10-74</i>	<i>[Signature]</i>	Weber COUNTY
PROJECT NUMBER	<i>HHS-0005(2)</i>	S-61 DWS. NO.	28 OF

NO.	BY	REMARKS

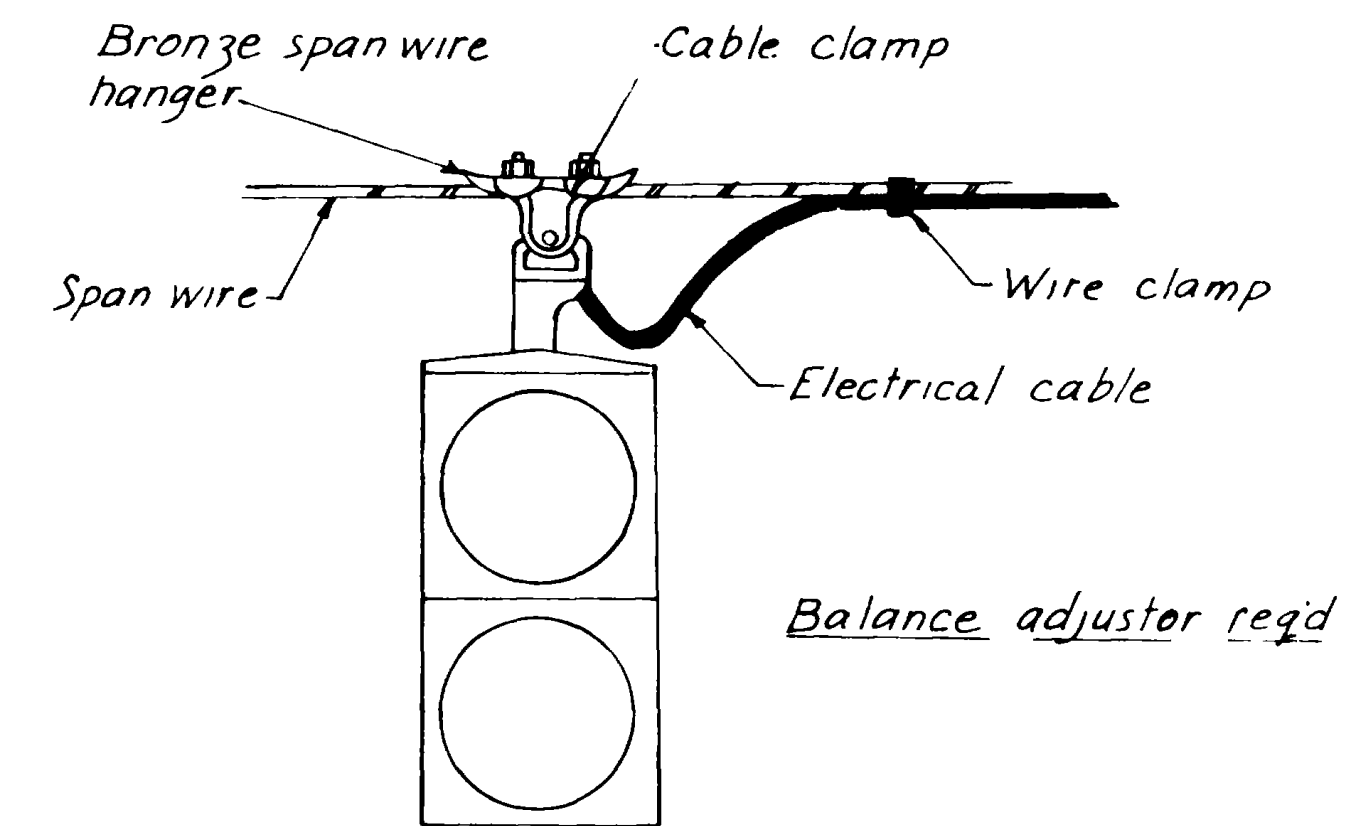
Metal Pole Bracket Assembly



1. Arm member fabricated from 1 1/4" and/or 1 1/2" standard aluminum pipe of 6063-T4 wrought aluminum alloy.
2. Stamped and/or formed from 6061-T4 wrought aluminum alloy mounting plate; dimensions to be 1/4" x 7" x 8 3/4", depending upon ϕ of existing steel pole, plate to be rectangular in shape and provided with 1 1/4" ϕ deburred wire entrance hole; four 9/16" ϕ holes provided for bolting purposes; two back-up clamps provided, each to be stamped from 6061-T4 or 6063-T5 wrought aluminum alloy, dimensions 1/4" x 1 1/4" x 8 3/4"; two 9/16" holes provided in each back-up clamp; four stainless steel 1/2"-13NC-2 x 1 3/4" long, hex head bolts, nuts and lockwashers required.
3. Brackets shall have a guaranteed minimum yield of 25,000 psi. They shall be capable of sustaining a horizontal load of 50 lbs. and a vertical load of 100 lbs. They shall sustain a vertical load of 250 lbs. applied at the end of the arm without collapse or rupture of any portion of the structure.
4. Other bracket materials may be used subject to prior approval of the engineer.

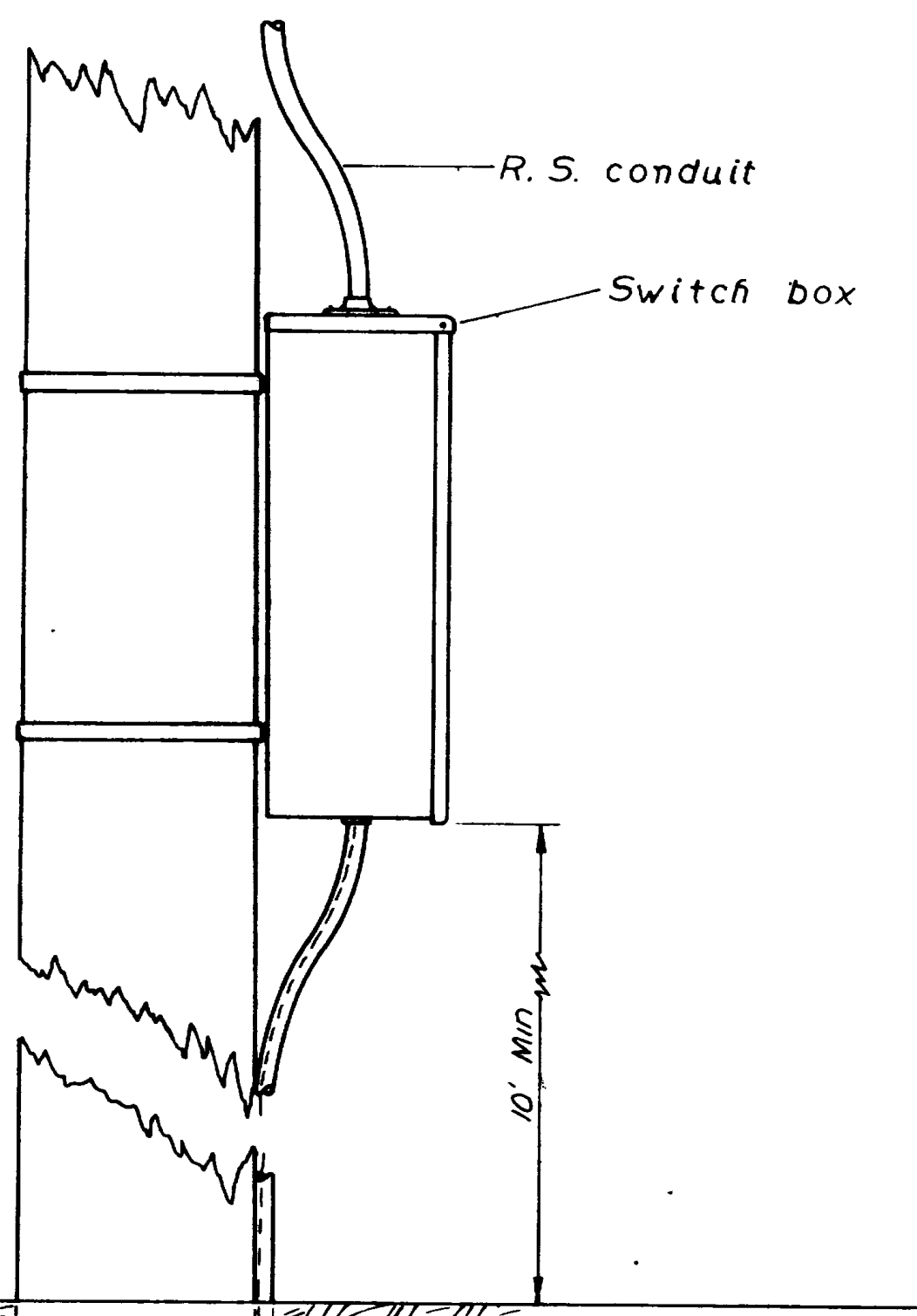
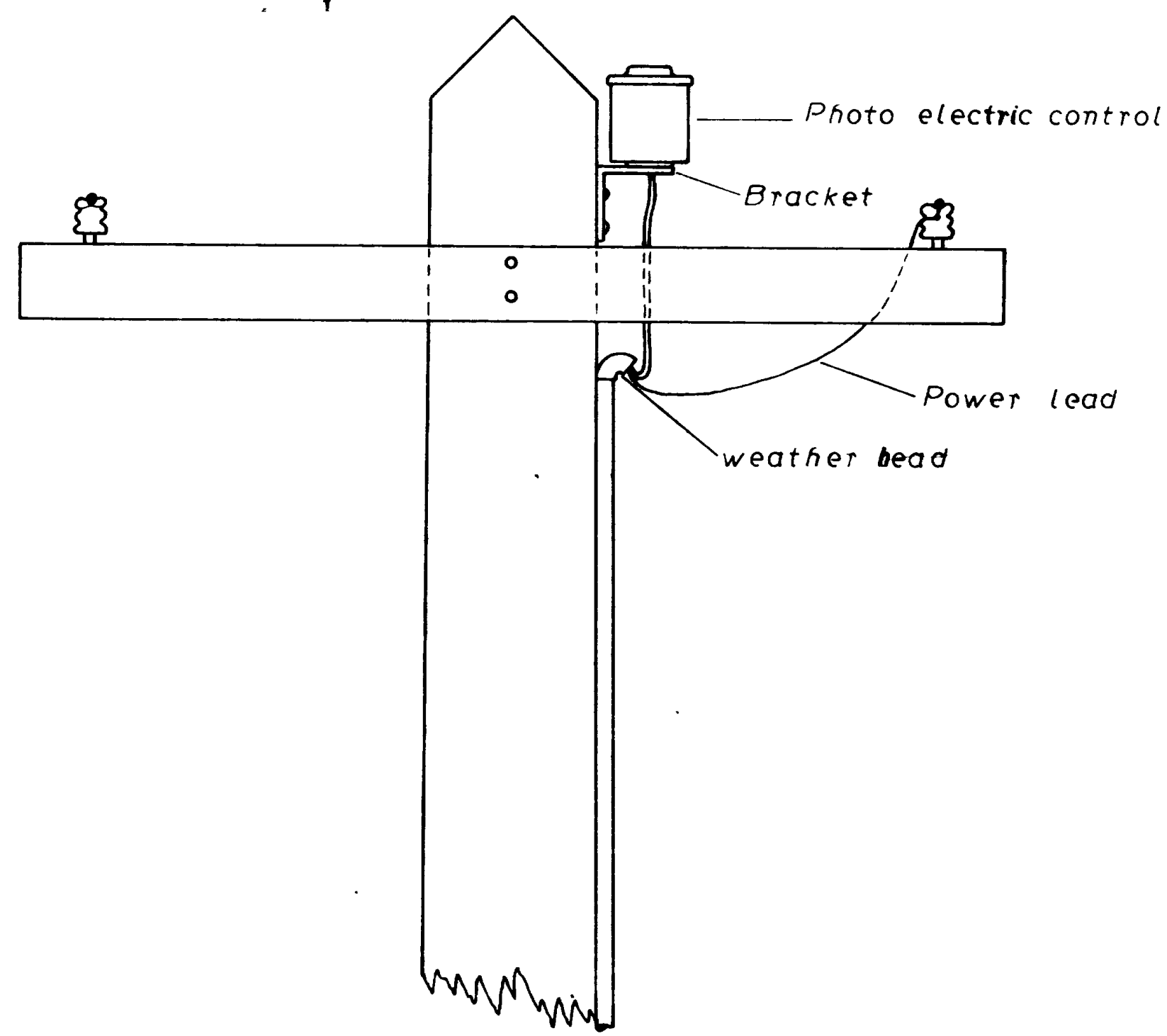


Detail for bringing overhead circuits down pole

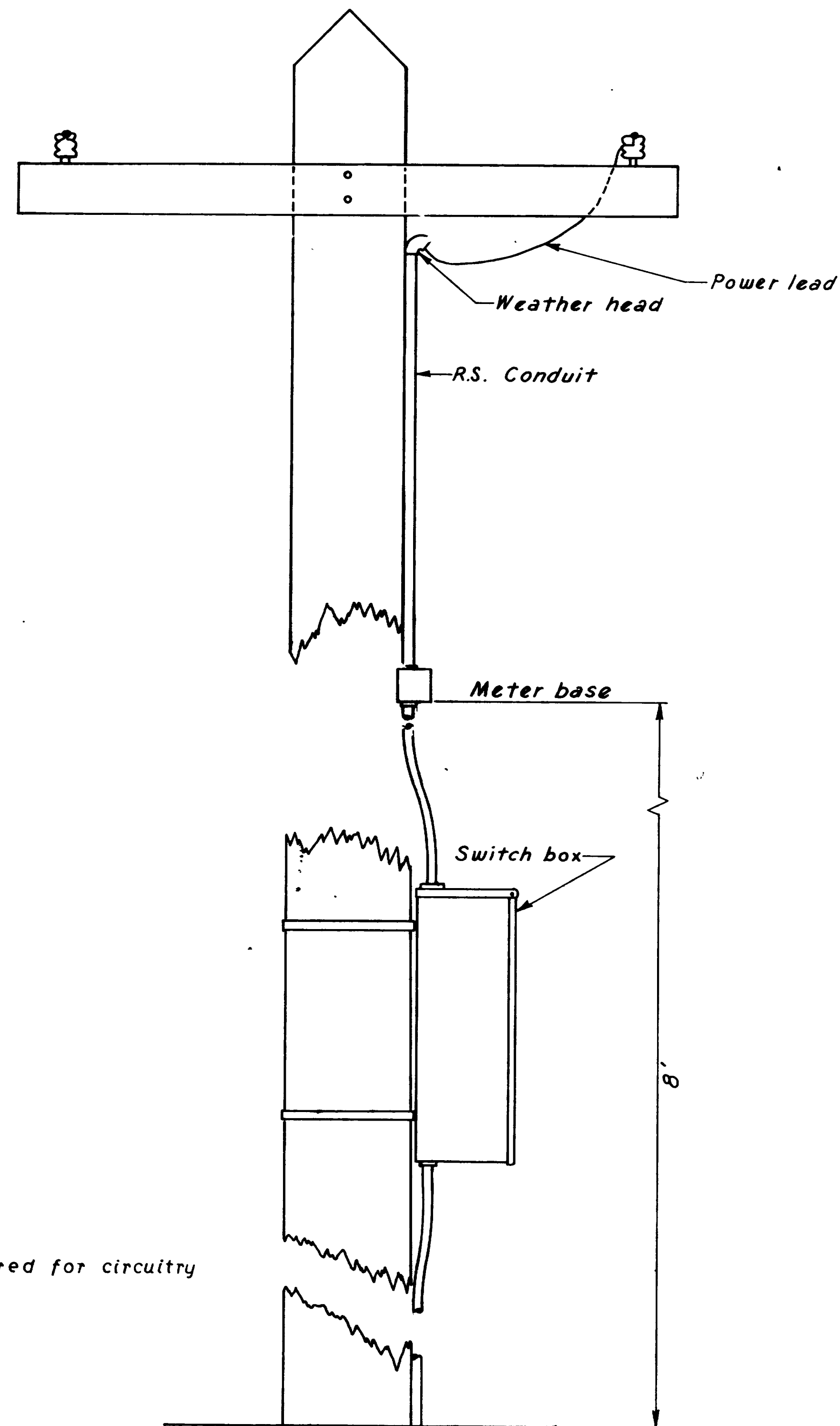
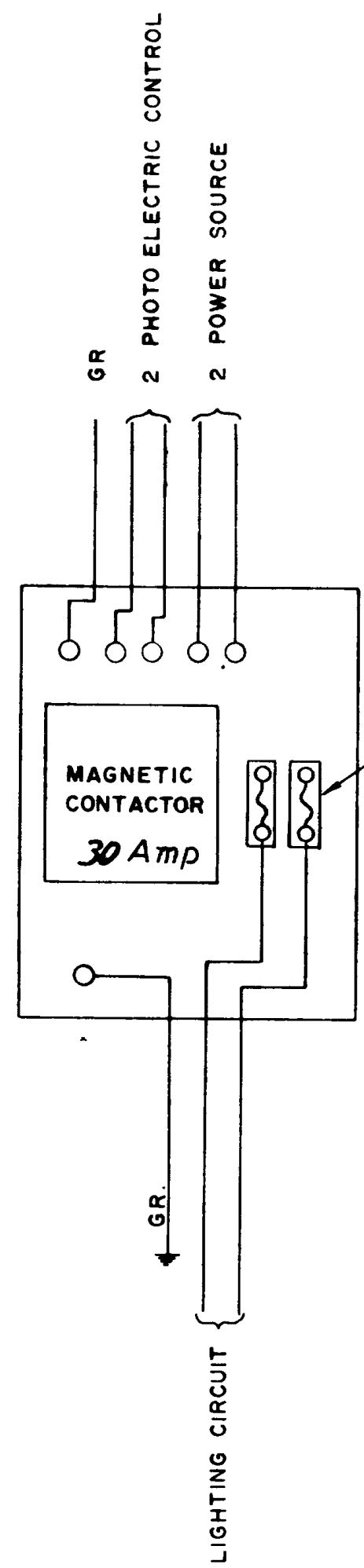


Signal mounting detail for 39th & Washington

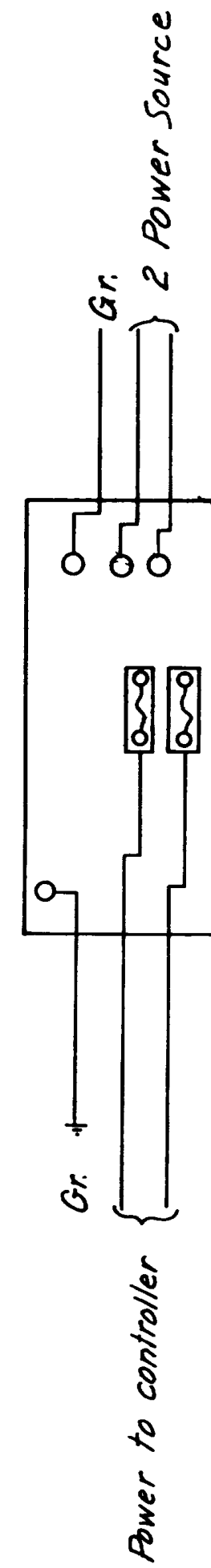
UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DESIGN			
TRAFFIC SIGNALS			
OGDEN			
MISC. DETAILS			
DESIGNED <i>JF Herceg</i>	CHECK <i>PH 11/74</i>	REVIEW	
DRAWN <i>M.Z.</i>	CHECK <i>PH 11/74</i>	DESIGN	
QUANT <i>JF Herceg</i>	CHECK <i>PH 11/74</i>	R/W	
APPROVAL <i>11-74</i>	<i>[Signature]</i>		
APPROVED <i>11-74</i>	<i>[Signature]</i>	WEBER	COUNTY
PROJECT NUMBER <i>H-25-0005 (2)</i>	<i>S-61</i>	29 of	



Lighting Power Source

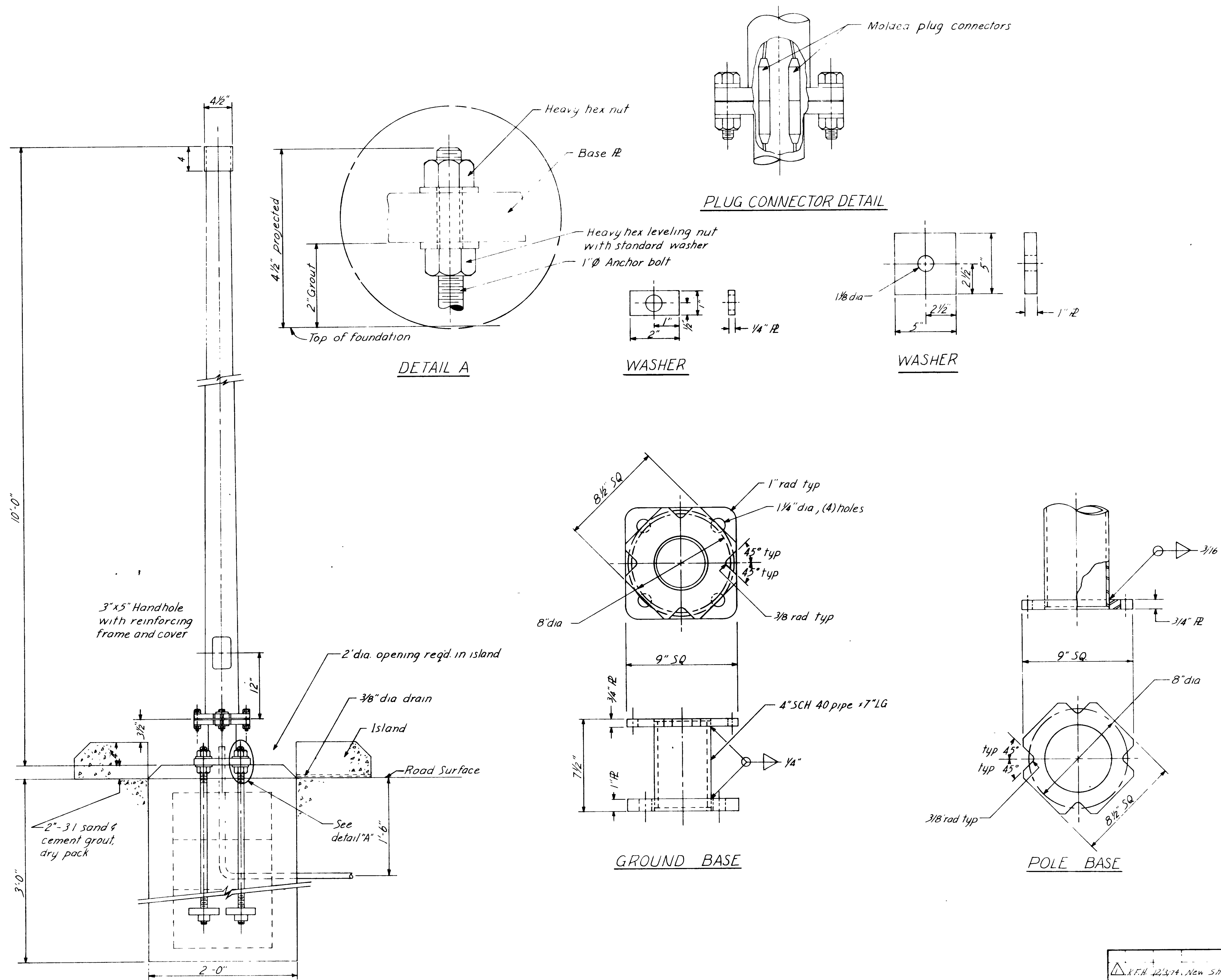


Signal Power Source



NO	BY	DATE	REMARKS
REVISIONS			

UTAH STATE DEPARTMENT OF HIGHWAYS SALT LAKE CITY, UTAH TRAFFIC DESIGN			
TRAFFIC SIGNALS OGDEN SIGNALS POWER SOURCE DETAILS			
DESIGNED <i>K.F. Herzog</i>	CHECK <i>11.74 P.H.</i>	REVIEW	
DRAWN <i>K.F. Herzog</i>	CHECK <i>11.74 P.H.</i>	DESIGN	
CHECKED <i>K.F. Herzog</i>	CHECK <i>11.74 P.H.</i>	R/W	
APPROVAL RECOMM	<i>11.74</i>	<i>GROUP ENGINEER</i>	
APPROVAL	<i>11.74</i>	<i>FILED</i>	<i>WEBER</i> COUNTY
PROJECT NUMBER <i>HHS-005-21</i>	<i>21</i>	DWG NO	OF



GENERAL NOTES

1 POLE

The pole design contemplates the use of tapered metal poles of steel (ASTM A570 Grade C Galvanized ASTM A123). Other pole materials may be acceptable subject to the approval of designs and drawings prior to the opening of bids by the Chief Structural Engineer. Shop drawings are required.

Poles shall meet the requirements of AASHTO 'Specifications for the Design and Construction of Structural Supports for Highway Luminaires' 1970, for an 80 mph wind with 100 mph gusts.

Allowable Stresses

ASTM A570 Grade C - $F_b = 178 \text{ Ksi (66 Fy)}$
 $F_u = 108.9 \text{ Ksi (33 Fy)}$

(Increase 40% for Group I Loading)

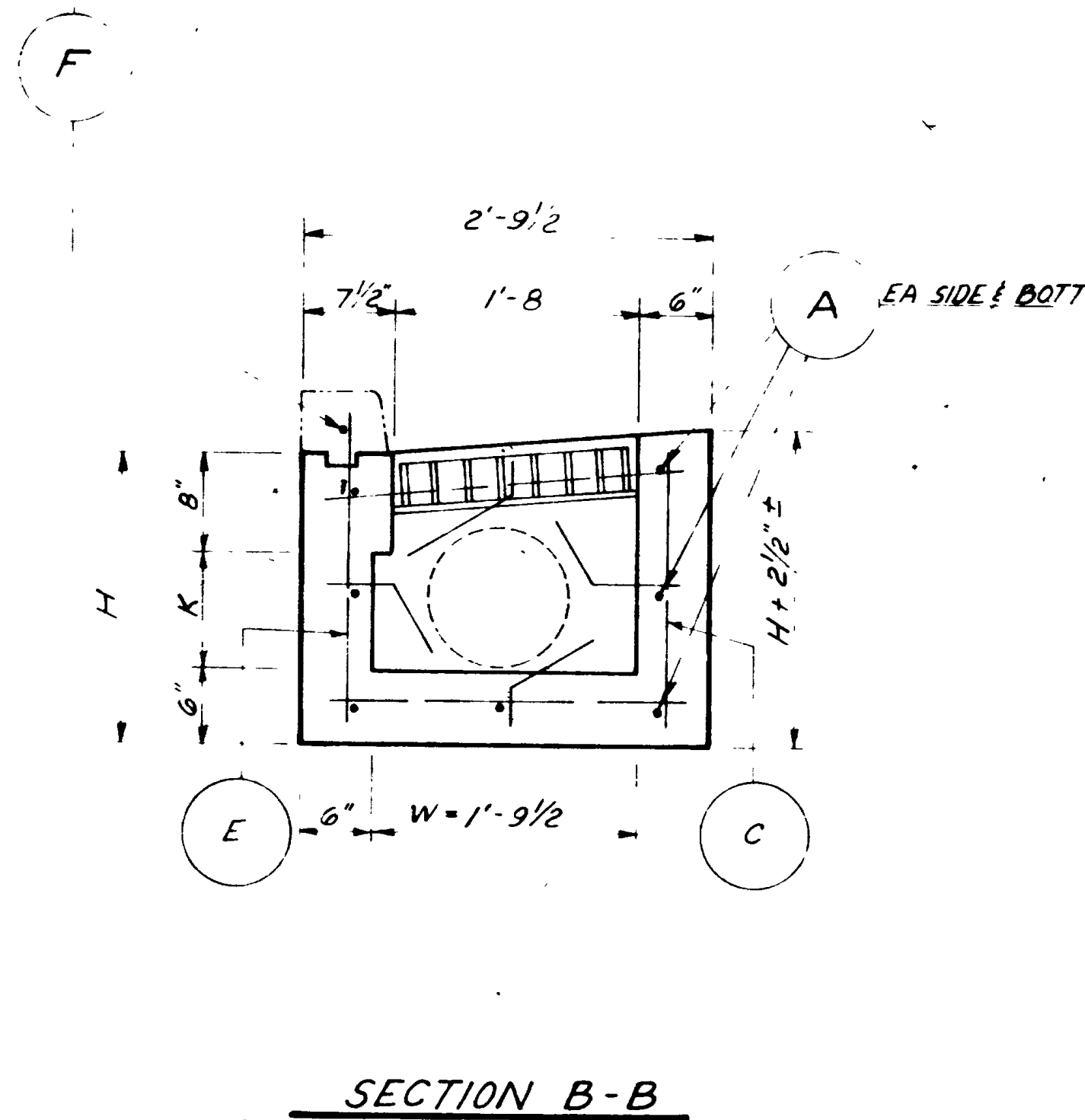
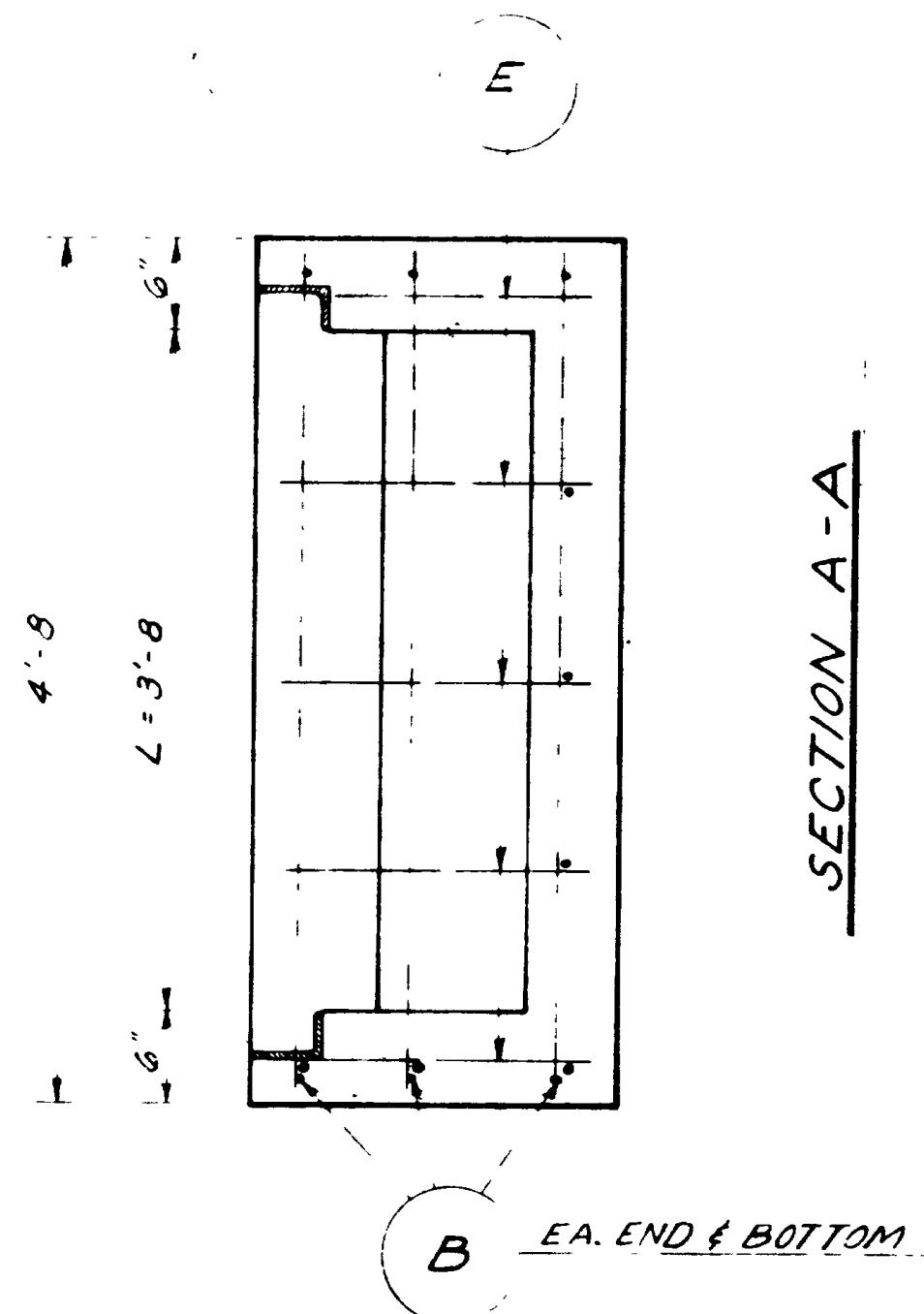
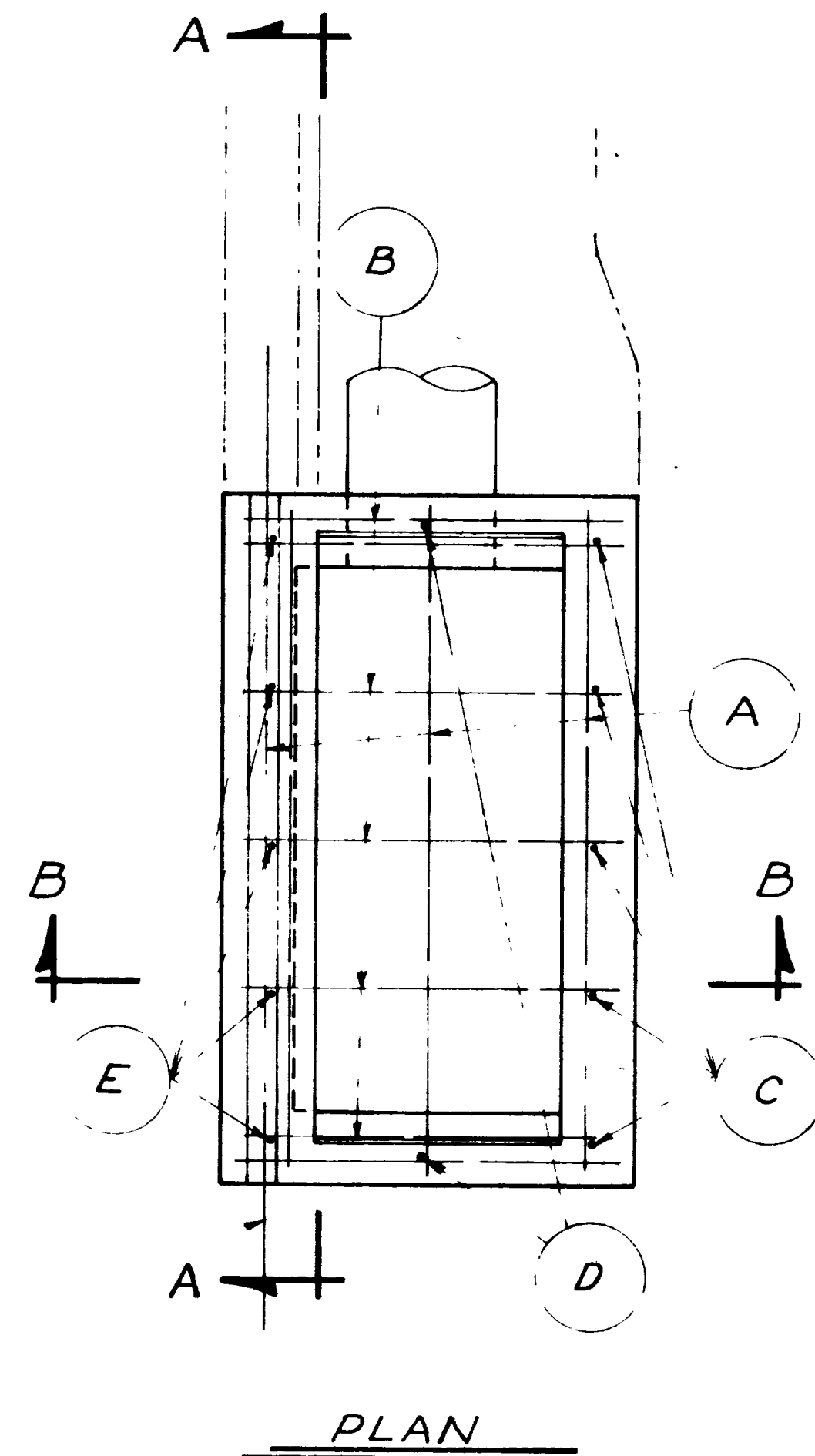
2 ANCHOR BOLTS

All anchor bolts shall be 1" x 26 mm with top 5" threaded and shall meet ASTM A325 with regular square head or regular square nut tack welded and heavy hexagon nuts. Exposed portions of anchor bolts shall be cadmium plated in accordance with ASTM A165 NS. Anchor bolts shall not be welded to reinforcing steel.

3 FOUNDATION

Foundation shall be cast in place in augered hole. Foundation shall be class A concrete. A 2' Ø opening required in island to facilitate access to pole base.

TAM STATE DEPARTMENT OF HIGHWAYS		
TRAFFIC DESIGN		
TRAFFIC SIGNALS		
OGDEN SIGNALS		
POST MOUNTED SIGNAL POLE		
DESIGNED BY	CHECKED BY	DATE
K. Herzog	PH 12-74	12-74
	PH 12-74	
	PH 12-74	
12-74	PH 12-74	
12-74	PH 12-74	
K.F.H. 12/3/74, New Sheet		Weber
H45066		5/1/51



NOTE:
FOR GRATING & BEARING ANGLE DETAILS
SEE STD. DWG. V-988

ALL REINFORCING BARS TO BE #5
@ 12" ± 0 C

LINE NO	L. DIMENSIONS		REINFORCING STEEL										QUANTITIES						
			A		B		C		D		E		F		REIN. STEEL	CONC.	EXCAV.	STRUC. STEEL	
	H	W	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LB.	CU YD.	CU YD.	LB.	
1	1'-6"	3'-8"	0'-4"	7	4'-4"	9	2'-5"	5	1'-3"	2	1'-2"	5	1'-6"	1	7'-0"	78.4	.502	1.9	293.0
2	2'-0"		0'-10"	7		9			1'-9"		1'-8"		2'-0"			84.7	.622	2.5	
3	2'-6"		1'-4"	9		11			2'-3"		2'-2"		2'-6"			105.0	.742	3.1	
4	3'-0"		1'-0"	9		11			2'-9"		2'-8"		3'-0"			111.3	.862	3.6	
5	3'-6"		2'-4"	11		13			3'-3"		3'-2"		3'-6"			131.6	.982	4.2	
6	4'-0"	1'-9 1/2"	3'-8"	11	4'-4"	13	2'-5"	5	3'-9"	2	3'-8"	5	4'-0"	1	7'-0"	137.9	1.102	4.8	293.0

NOTE: CONCRETE DISPLACED BY PIPE SHALL BE DEDUCTED FROM THOSE CONCRETE QUANTITIES GIVEN IN SCHEDULE.

GENERAL NOTES

MATERIALS, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF UTAH STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION, EDITION OF 1970 AND SUPPLEMENTS THERETO WHICH ARE IN EFFECT ON THE DATE HEREOF.
ALL REINFORCING STEEL SHALL BE DEFORMED BILLET-STEEL BARS CONFORMING TO ASTM DESIGNATION A 615-69, GRADE 60.
STRUCTURAL STEEL FOR GRATING SHALL BE STRUCTURAL CARBON STEEL CONFORMING TO A A S H O DESIGNATION M-13 (ASTM A-36).
GRATING AND BEARING ANGLE SHALL BE HOT-DIP GALVANIZED STEEL FABRICATED IN ACCORDANCE WITH A A S H O DESIGNATION M-1 (ASTM F-36).

A UNIT CATCH BASIN SHALL INCLUDE SEATING BEARING ANGLE AND BOX COMPLETE CLASS AA CONCRETE (AE) TYPE II CEMENT (CONCRETE) REQUIRED.

DESIGN DATA

THE DESIGN IS IN ACCORDANCE WITH THE A A S H O SPECIFICATIONS AND INTERIM SPECIFICATION.

LOADING: HS 20-44

PE = 1000 PS

TL = 24 DECK (REIN. STEEL) IN 1000 PS (STRUCT. STEEL)

DL = 8

QUANTITIES

SEE TABLE BELOW

NOTE:
CONCRETE, REINFORCING STEEL AND STRUCTURAL STEEL QUANTITIES ARE CERTIFIED CORRECT FOR THE DIMENSIONS SHOWN.

PE

**STANDARD
CATCH BASIN**

HGE
HEM 7'25"3 SMP VARIES
HGE SMP

1-21-74 *Ray Dilling* V-132