

CONSTRUCTION PLANS FOR

TRAFFIC SIGNAL IMPROVEMENTS

LEAD & COAL AVENUES

FOR

CITY OF ALBUQUERQUE-PUBLIC WORKS DEPT.

SHEET NO.	DESCRIPTION
1 OF 27	TITLE PAGE
2 OF 27	VICINITY MAP
3 OF 27	GENERAL NOTES
4 OF 27	TRAFFIC SIGNAL QUANTITIES
5 OF 27	LEAD/BUENA VISTA-SIGNAL PLAN
6 OF 27	LEAD/BUENA VISTA-CABLES, CONDUITS & FUNCTIONS
7 OF 27	LEAD/COLUMBIA-SIGNAL PLAN
8 OF 27	LEAD/COLUMBIA-CABLES, CONDUITS & FUNCTIONS
9 OF 27	LEAD/WELLESLEY-SIGNAL PLAN
10 OF 27	LEAD/WELLESLEY-CABLES, CONDUITS & FUNCTIONS
11 OF 27	LEAD/MORNINGSIDE-SIGNAL PLAN
12 OF 27	LEAD/MORNINGSIDE-CABLES, CONDUITS & FUNCTIONS
13 OF 27	COAL / SPRUCE-SIGNAL PLANS
14 OF 27	COAL / SPRUCE-CABLES, CONDUITS & FUNCTIONS

SHEET NO.	DESCRIPTION
15 OF 27	COAL / STANFORD-SIGNAL PLAN
16 OF 27	COAL / STANFORD-CABLES, CONDUITS & FUNCTIONS
17 OF 27	COAL / MONTCLAIRE-SIGNAL PLAN
18 OF 27	COAL / MONTCLAIRE-CABLES, CONDUITS & FUNCTIONS
19 OF 27	TYPE II STANDARDS
20 OF 27	TYPE I POLE & PEDESTRIAN SIGNAL DETAILS
21 OF 27	TRAFFIC SIGNAL FOUNDATION DETAILS
22 OF 27	SIGNAL & LIGHTING PULLBOX DETAILS
23 OF 27	SIGNAL & LIGHTING SERVICE DETAILS
24 OF 27	TRAFFIC CONTROL PLAN SIGN FACE DETAILS & NOTES
25 OF 27	TRAFFIC CONTROL PLAN
26 OF 27	STRIPING PLAN
27 OF 27	PERMANENT SIGNING SIGN FACE DETAILS

SEE SHEET 2 OF 27

VICINITY MAP
NOT TO SCALE

GENERAL NOTES

NOTICE TO CONTRACTORS

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION
 - TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- SEE SHEET 3 OF 27 FOR CONTINUATION OF GENERAL NOTES.

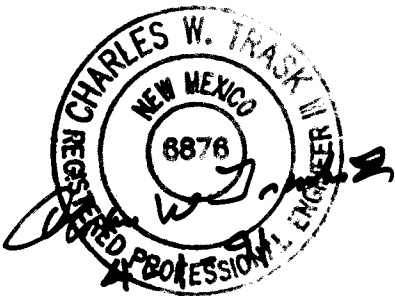
THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☐ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED
- ☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☐ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☐ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

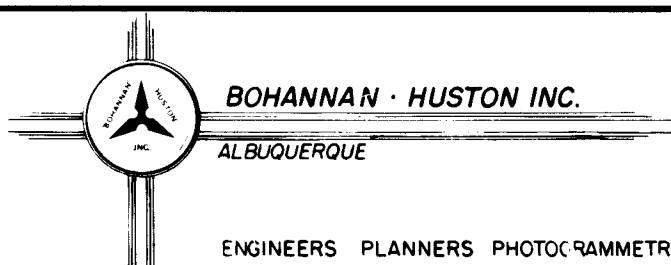
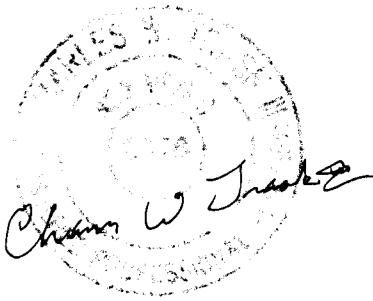
APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
<i>Charles W. Thacker</i>
DATE 5-7-91

1	2	3	4	5	6	7	8	9	10	11	12
2	6	3	9	7	1	0	1	9	1		

REV	SHEETS	CITY ENGINEER	DATE	USER	DEPT.	DATE	USER	DEPT.	DATE
APPROVAL OF REVISIONS									



RECORD DRAWINGS
DATE 4-1-91

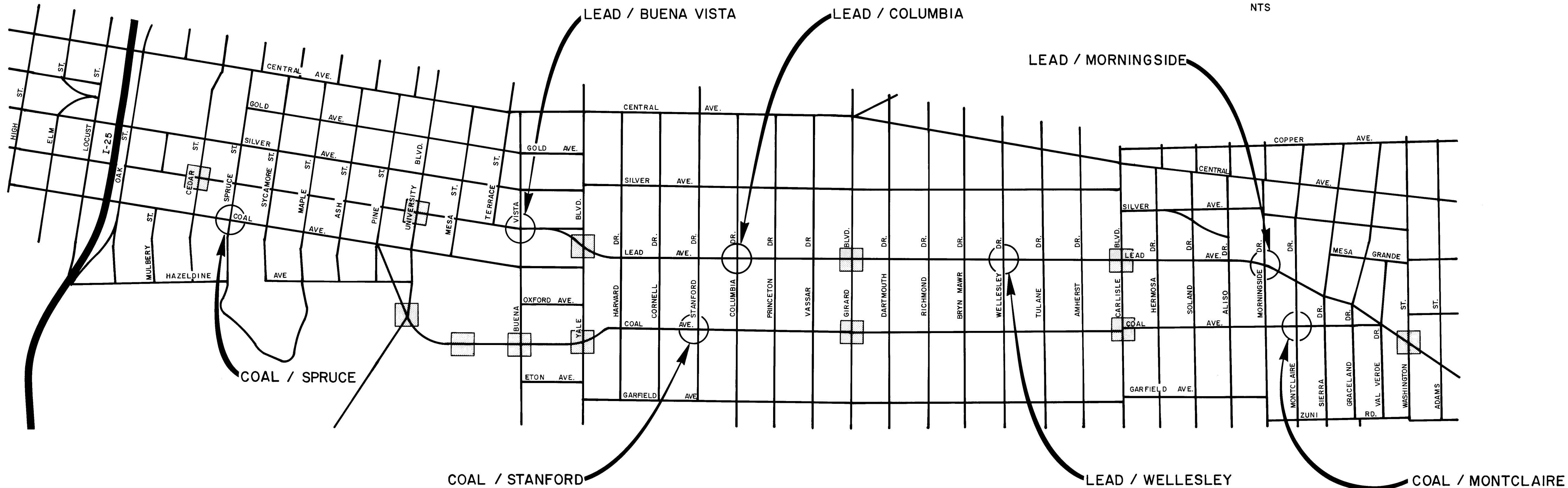


APPROVED FOR CONSTRUCTION

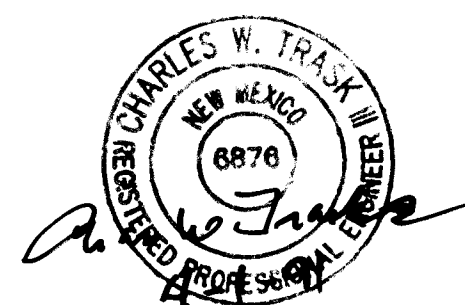
Charles W. Thacker
2-12-90 C.E.

PROJECT NUMBER
3971

SHEET 1 OF 27



NOTE:
○ INSTALL TRAFFIC SIGNALS AT THE ABOVE INTERSECTIONS.
■ EXISTING TRAFFIC SIGNALS



RECORD DRAWINGS
DATE 4-1-91

1 2 3 4 5 6 7 8 9 10 11 12
26 39 71 02 91

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES VICINITY MAP			
APPROVALS	ENGINEER	DATE	APPROVALS
DRC CHAIRMAN	R. W. Kane	2/15/90	WATER
TRANSPORTATION	R. W. Kane	2-14-90	WASTE WATER
HYDROLOGY	R. W. Kane	2/6/90	
DRAWING NO.	3971	MAP NO.	K-15, K-16, K-17
SHEET 2		OF 27	

FHWA. Region No.		NEW MEXICO		SHEET NO.		TOTAL SHEETS	
6							
AS-BUILT INFORMATION				BENCH MARKS			
CONTRACTOR: McDADE/WOODCOCK				WORK STAKED BY: CITY			
DATE: N/A				DATE: 4-1-91			
FIELD INSPECTION BY: CITY				DATE: 4-1-91			
DRAWING BY: BHI				DATE: 4-1-91			
CORRECTED BY: BHI				DATE: 4-1-91			
MICRO-FILM INFORMATION				RECORDED BY: NO.			
DATE:				DATE:			

GENERAL NOTES

- SEE SHEET 1 OF 27 FOR NOTES 1-3.
- TRAFFIC SIGNAL CONDUIT, WIRING, FOUNDATIONS, CONTROLLERS AND POLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1984 EDITION.
 - THE CONTRACTOR SHALL CONFINE HIS OPERATION TO THE CONSTRUCTION LIMITS OF THIS PROJECT AND WILL BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIS EQUIPMENT TO PUBLIC OR PRIVATE PROPERTY.
 - NO SUSPENSION OF TIME ON THIS PROJECT SHALL BE ALLOWED WITHOUT PRIOR DOCUMENTED NOTICE TO THE ENGINEER FROM THE CONTRACTOR CONCERNING A CRITICAL DELAY IN HIS RECEIPT OF MATERIALS.
 - NO LANE CLOSURES WILL BE PERMITTED BETWEEN THE HOURS OF 4:00 P.M. AND 8:30 A.M. OF THE FOLLOWING DAY. ALL EXCAVATIONS SHALL BE CLOSED AND BACKFILLED EACH DAY.
 - ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS.
 - LOCATIONS OF CONDUIT, MANHOLES AND SPLICE CABINETS ARE SCHEMATIC AND MAY BE ADJUSTED WITH THE APPROVAL OF THE ENGINEER.
 - THE CONTRACTOR IS WARNED THAT EXISTING CONDUIT MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
 - THE CONTRACTOR SHALL BORE, DRILL OR PUSH WHEN CROSSING LEAD & COAL AVENUES AND ANY DRIVE PADS FOR SIDE STREET CROSSINGS. THE CONTRACTOR SHALL CUT, TRENCH AND REPLACE EXISTING PAVEMENT UNLESS APPROVED OTHERWISE BY THE PROJECT ENGINEER. IF APPROVED OTHERWISE PAYMENT SHALL NOT EXCEED THAT FOR CUTTING, TRENCHING AND REPLACING THE EXISTING PAVEMENT.
 - ALL CONFLICTING EXISTING STRIPING SHALL BE REMOVED.
 - ALL CONCRETE SHALL BE CLASS "A" WITH 4% TO 7% AIR ENTRAINMENT.
 - ALL DATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED FROM "AS-BUILT" DRAWINGS AND FROM FIELD OBSERVATIONS WHICH MAY OR MAY NOT BE ACCURATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPLORATORY TRENCHING, IF NECESSARY, TO MORE SPECIFICALLY LOCATE UTILITY LINES. COST OF LOCATING UTILITY LINES INCLUDING EXPLORATORY TRENCHING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
 - EXACT LOCATION OF SIGNAL MASTARMS, PEDESTAL POLES, SPLICE CABINET AND CONTROLLER FOUNDATIONS ARE TO BE DETERMINED IN THE FIELD TO AVOID CONFLICTS WITH EXISTING UTILITIES.
 - THE CONTRACTOR SHALL NOTIFY PNM* TO CHANGE THE BILLING FOR ELECTRICAL SERVICE INTO THE CITYS' NAME UPON ACCEPTANCE OF THE PROJECT BY THE CITY.
 - THE CONTRACTOR SHALL REMOVE ALL EXISTING STOP SIGNS & POSTS AND DELIVER TO THE CITY YARDS ONCE THE SIGNAL IS OPERATIONAL.
 - THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR DELAYS, INCONVENIENCES OR DAMAGE SUSTAINED DUE TO ANY INTERFERENCES FROM SAID UTILITY APPURTENANCES OR THE OPERATION OF MOVING THEM, RESULTING FROM NEGLIGENCE OF THE CONTRACTOR AS DETERMINED BY THE ENGINEER.
 - THE CONTRACTOR SHALL NOTIFY PNM* 14 DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS AND RELOCATIONS.
 - THE CITY WILL PAY ANY COSTS CHARGED BY PNM TO PROVIDE SERVICE.

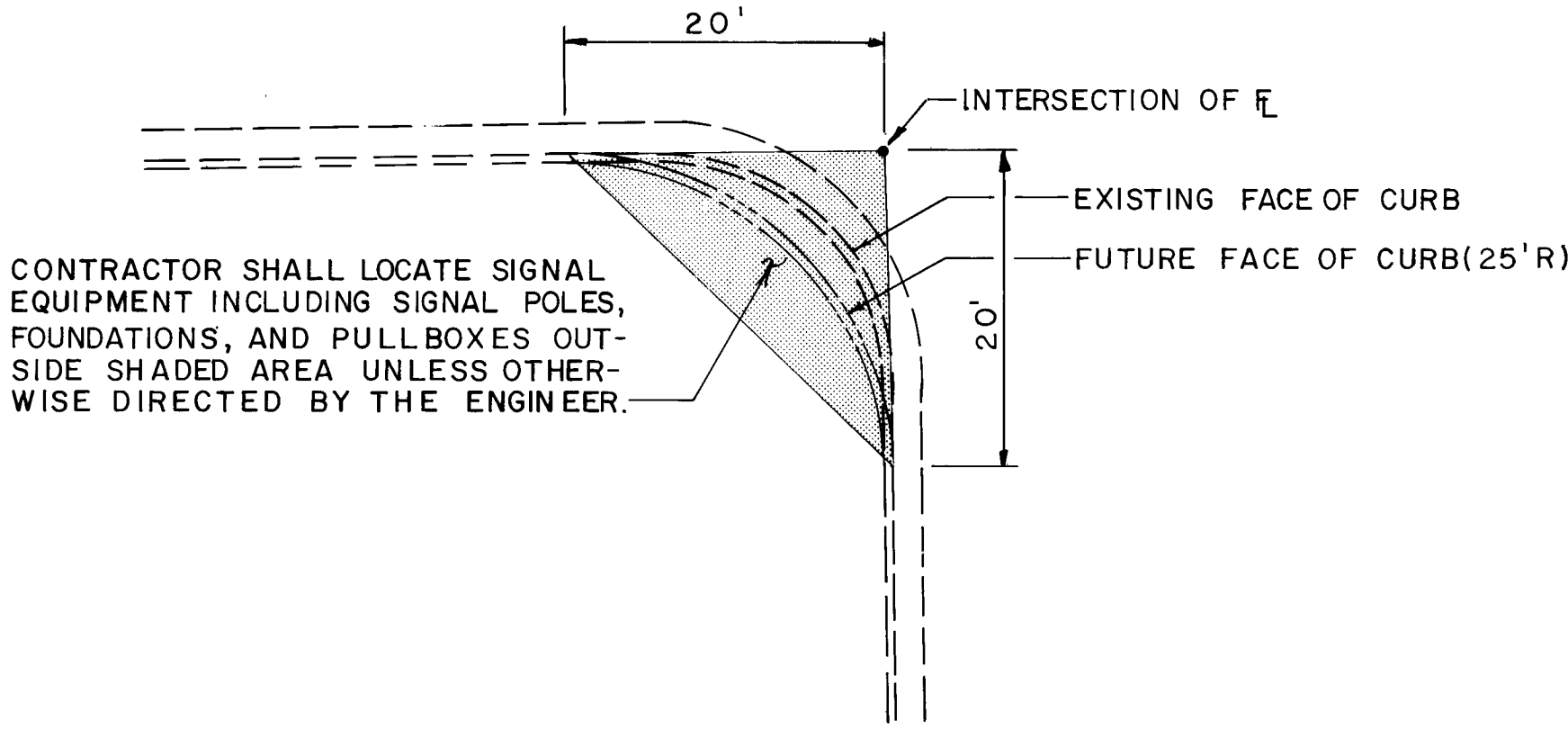
*PUBLIC SERVICE COMPANY OF NEW MEXICO

GENERAL NOTES (CONT.'D)

- MATERIALS TO BE DISPOSED OF BY THE CONTRACTOR SHALL BE HAULED TO THE NEAREST CITY LANDFILL OR OTHER CITY APPROVED SITE AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL KEEP THE PUBLIC MEDIA APPRISED, THROUGH THE LOCAL NEWS MEDIA, FOR THE LIFE OF THE PROJECT, OF VARIOUS CONSTRUCTION OPERATIONS INVOLVING STREET OR LANE CLOSURES OR ANY OTHER PERTINENT INFORMATION RELATING TO TRAFFIC MOVEMENT.
- ACCESS TO RESIDENCE/BUSINESS SHALL BE KEPT OPEN INsofar AS POSSIBLE. ACCESS CLOSURES MUST BE SCHEDULED WITH AND APPROVED BY THE ENGINEER.
- ALL FOUNDATIONS AND PULLBOXES SHALL BE WITHIN THE RIGHT OF WAY.
- THE CONTRACTOR SHALL REMOVE AND REPLACE IN KIND OR BETTER LANDSCAPING AS REQUIRED TO COMPLETE THE PROJECT, INCLUDING SPRINKLERS, PLANTS, BUSHES, TREES, YARDWALLS, GRASS, GRAVEL, CONCRETE AND ASPHALT, ETC.
- THE CONTRACTOR SHALL NOTIFY ADJACENT PROPERTY OWNERS 48 HOURS BEFORE STARTING CONSTRUCTION IN FRONT OF THE ADJACENT PROPERTIES.

INCIDENTAL ITEMS

- CABLE TESTING AND DIAGRAMS.
- REMOVAL OF EXISTING STRIPING.
- LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING.
- PAYMENT TO PNM TO PROVIDE ELECTRICITY TO OPERATE THE SIGNALS DURING CONSTRUCTION UNTIL ACCEPTANCE OF THE PROJECT BY THE CITY.
- REMOVAL AND DELIVERY OF SIGNS TO CITY YARDS.
- APPRIISING PUBLIC MEDIA, THROUGH THE LOCAL NEWS MEDIA.
- REMOVAL AND REPLACEMENT IN KIND OR BETTER OF LANDSCAPING INCLUDING SPRINKLERS, FOR INSTALLATION OF PULL BOXES, CONDUIT AND SIGNAL FOUNDATIONS.

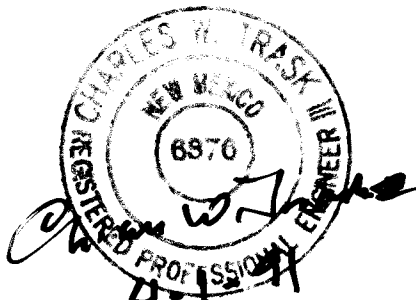


TYPICAL CURB RETURN DETAIL
NO SCALE

F.H.W.A. Region No.		SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		

AS-BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL				REVISIONS			
CONTRACTOR	DATE	CITY	DATE	CONTRACTOR	DATE	CITY	DATE	NO.	BY	DATE						NO.	DATE	DESIGNED BY	DATE
MADE/WOODCOCK				MADE/WOODCOCK														BH	1/90
DATE				DATE														BH	1/90
DATE				DATE														CWT	1/90
DATE				DATE															

C of A PWD Maps & Records											
1	2	3	4	5	6	7	8	9	10	11	12
2	6	3	9	7	1	0	3	9	1		



RECORD DRAWING
DATE 4-1-91

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES GENERAL NOTES					
APPROVAL	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ORC CHAIRMAN	R. W. Kane	2/5/90	WATER	R. W. Kane	2-6-90
TRANSPORTATION	R. W. Kane	2/4/90	WASTE WATER	R. W. Kane	2-6-90
HYDROLOGY	R. W. Kane	2/6/90			
DRAWING NO.	3971	MAP NO.	K-15, K-16, K-17	SHEET	3 OF 27

ESTIMATED QUANTITIES											
				INTERSECTION							
BID ITEM NUMBER	SPEC ITEM NUMBER	ITEM DESCRIPTION	UNIT	LEAD / BUENA VISTA	LEAD / COLUMBIA	LEAD / WELLSLEY	LEAD / MORNINGSIDE	COAL/ SPRUCE	COAL/ STANFORD	COAL/ MONTCLAIRE	TOTAL
1	0301.03	SUBGRADE PREP. FOR RESIDENTIAL ROADWAYS.6" • 95% COMPACTION.CIP.	SO.YD.	11	11	35	20	34	12	12	135
2	0303.01	SUBBASE. 4" THICK. PROCESS EXISTING MATERIAL. CIP	SO.YD.	11	11	35	20	34	42	22	175
3	0336.07	BASE COURSE.ASPHALT CONC..1 1/2" THK..1500 LB. STABILITY.WITHOUT MACH. LAYDOWN.CIP.	SO.YD.	11	11	35	20	34	12	12	135
4	0336.12	TACK COAT. CATIONIC EMULSIFIED ASPHALT. CIP.	SO.YD.	11	11	35	20	34	12	12	135
5	0336.20	SURFACE COURSE. ASPHALT CONC..1 1/2" THK.1500LB. STABILITY.WITHOUT MACH. LAYDOWN.CIP.	SO.YD.	11	11	35	20	34	12	12	135
6	0336.21	SURFACE COURSE.ASPHALT CONC..2" THK..1500 LB. STABILITY.WITHOUT MACH. LAYDOWN.CIP.	SO.YD.	-	-	-	-	-	30	10	40
7	0340.01	SIDEWALK. 4" THK..PORTLAND CEMENT CONC..INCLUDING SUBGRADE COMPACTION.CIP.	SO.FT.	630	218	216	342	243	344	216	2209
8	0340.05	CURB & GUTTER.STANDARD.PORTLAND CEMENT CONC..INCLUDING SUBGRADE PREPARATION.CIP.	LIN.FT.	36	36	36	48	48	36	36	276
9	0343.02	EXIST. PAVEMENT.ASPHALT CONC.UP TO 4" THK..SAWCUT.REMOVE & DISPOSE.COMPLETE	SO.YD.	-	-	-	-	-	30	10	40
10	0343.03	EXIST. PAVEMENT.ASPHALT CONC..MORE THAN 4" THK..SAWCUT.REMOVE & DISPOSE.COMPLETE	SO.YD.	11	11	35	20	34	12	12	135
11	0343.08	EXIST. CURB & GUTTER.PORTLAND CEMENT CONC..REMOVE & DISPOSE.COMPLETE	LIN.FT.	36	36	36	48	48	36	36	276
12	0343.09	EXIST. SIDEWALK. SAWCUT. REMOVE & DISPOSE. COMPLETE	SO.YD.	70	14	24	38	27	11	24	208
13	0420.03	TRAFFIC SIGNAL FOUNDATION FOR PEDESTAL. TYPE I. CIP.	EACH	2	2	2	2	2	1	2	13
14	0420.XX	TRAFFIC CONTROL CABINET FOUNDATION. TYPE M. CIP.	EACH	1	1	1	1	1	1	1	7
15	0420.XX	TRAFFIC SIGNAL FOUNDATION FOR MASTARM. TYPE II. CIP.	EACH	3	3	3	3	3	3	3	21
16	0420.XX	TRAFFIC SIGNAL FOUNDATION FOR SPLICE CABINET. CIP.	EACH	-	-	-	-	1	1	1	3
17	701010	PLYWOOD OR ALUMINUM PANEL SIGN	SO.FT.	24	22	22.67	24	21.33	22.67	23.33	160
18	702000	CONSTRUCTION SIGNING	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.
19	706010	SERVICE POLE (SIGNAL) FOR UNDERGROUND SERVICE	EACH	1	1	1	1	-	1	1	6
20	706011	SERVICE POLE (SIGNAL)	EACH	-	-	-	-	1	-	-	1
21	707013	TYPE I STANDARD - 13"	EACH	2	2	2	2	2	1	2	13
22	707026	TYPE II ALB STANDARD - 15' ARM	EACH	2	2	2	2	2	2	2	14
23	707031	TYPE II ALB STANDARD - 20' ARM	EACH	1	1	1	-	1	1	1	6
24	707036	TYPE II ALB STANDARD - 25' ARM	EACH	-	-	-	1	-	-	-	1
25	0420.08 709015	TRAFFIC SIGNAL ELECTRICAL CONDUIT.1" RIGID.INCLUDING TRENCHING.BACKFILL & CONNECTIONS TO EXIST. CONDUIT. IF REQUIRED. CIP.	LIN.FT.	45	22	175	180	170	200	130	922
26	0420.09 709030	TRAFFIC SIGNAL ELECTRICAL CONDUIT.2" RIGID.INCLUDING TRENCHING.BACKFILL & CONNECTIONS TO EXIST. CONDUIT. IF REQUIRED. CIP.	LIN.FT.	134	131	136	133	148	129	166	977
27	0420.XX 709040	TRAFFIC SIGNAL ELECTRICAL CONDUIT.3" RIGID.INCLUDING TRENCHING.BACKFILL & CONNECTIONS TO EXIST. CONDUIT. IF REQUIRED. CIP.	LIN.FT.	100	104	125	165	105	90	150	839
28	0420.XX	TRAFFIC SIGNAL ELECTRICAL CONDUIT. 1" RIGID. INCLUDING BORING. CIP.	LIN.FT.	-	-	-	-	-	20	25	45
29	0420.XX	TRAFFIC SIGNAL ELECTRICAL CONDUIT. 2" RIGID. INCLUDING BORING. CIP.	LIN.FT.	-	-	-	-	-	75	-	105
30	0420.XX	TRAFFIC SIGNAL ELECTRICAL CONDUIT. 3" RIGID. INCLUDING BORING. CIP.	LIN.FT.	125	105	100	125	100	175	90	820
31	710010	ELECTRICAL PULL BOX (LARGE)	EACH	4	4	4	4	4	4	4	28
32	710011	ELECTRICAL PULL BOX (SMALL)	EACH	2	2	2	2	2	2	2	14
33	710012	SPLICE CABINET	EACH	-	-	-	-	1	1	1	3
34	711009	COMMUNICATION CABLE 25 PAIR	LIN.FT.	-	-	-	-	23	18	23	64
35	711110	MULTI CONDUCTOR CABLE 5	LIN.FT.	587	561	574	644	564	620	582	4132
36	711125	MULTI CONDUCTOR CABLE 20	LIN.FT.	355	331	342	419	337	372	355	2511
37	711224	SINGLE CONDUCTOR 10	LIN.FT.	355	331	342	419	337	372	355	2511
38	711228	SINGLE CONDUCTOR 6	LIN.FT.	112	76	382	392	372	472	342	2148
39	712020	3 SECTION TRAFFIC SIGNAL ASSEMBLY	EACH	9	9	9	9	9	9	9	63
40	712070	PEDESTRIAN SIGNAL ASSEMBLY	EACH	8	8	8	8	8	8	8	56
41	712103	3 SECTION BACKPLATE	EACH	3	3	3	3	3	3	3	21
42	713030	PUSH BUTTON STATION	EACH	8	8	8	8	8	8	8	56
43	714071	MULTIPHASE ACTUATED CONTROLLER - SINGLE RING (INSTALLATION ONLY) *	EACH	1	1	1	1	1	1	1	7
44	718004	REFLECTIVE PLASTIC PAVEMENT STRIPE - 12" 60 MIL.	LIN.FT.	270	255	260	360	265	270	265	1945

TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING	ITEM
		PULL BOX
		SIGNAL POLE (UNDERGROUND)
		SERVICE POLE
		CONTROLLER CABINET
		CONDUIT RUN
		LOOP DETECTOR
		TRAFFIC SIGNAL PEDESTAL POLE
		CONDUIT RUN NUMBER
		POLE WITH MASTARM, TRAFFIC SIGNAL AND BACKPLATE
		COMBINATION POLE WITH LUMINAIRE AS INDICATED
		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		SPLICE CABINET
		TRAFFIC MANHOLE

* CONTROLLERS AND CABINETS WILL BE FURNISHED BY THE CITY OF ALBUQUERQUE. THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE CITY TRAFFIC ENGINEERING OPERATIONS DIVISION, PICK UP EQUIPMENT AT THE CITY YARD ON PINO RD. NE, AND TRANSPORT EQUIPMENT TO THE JOB SITES.

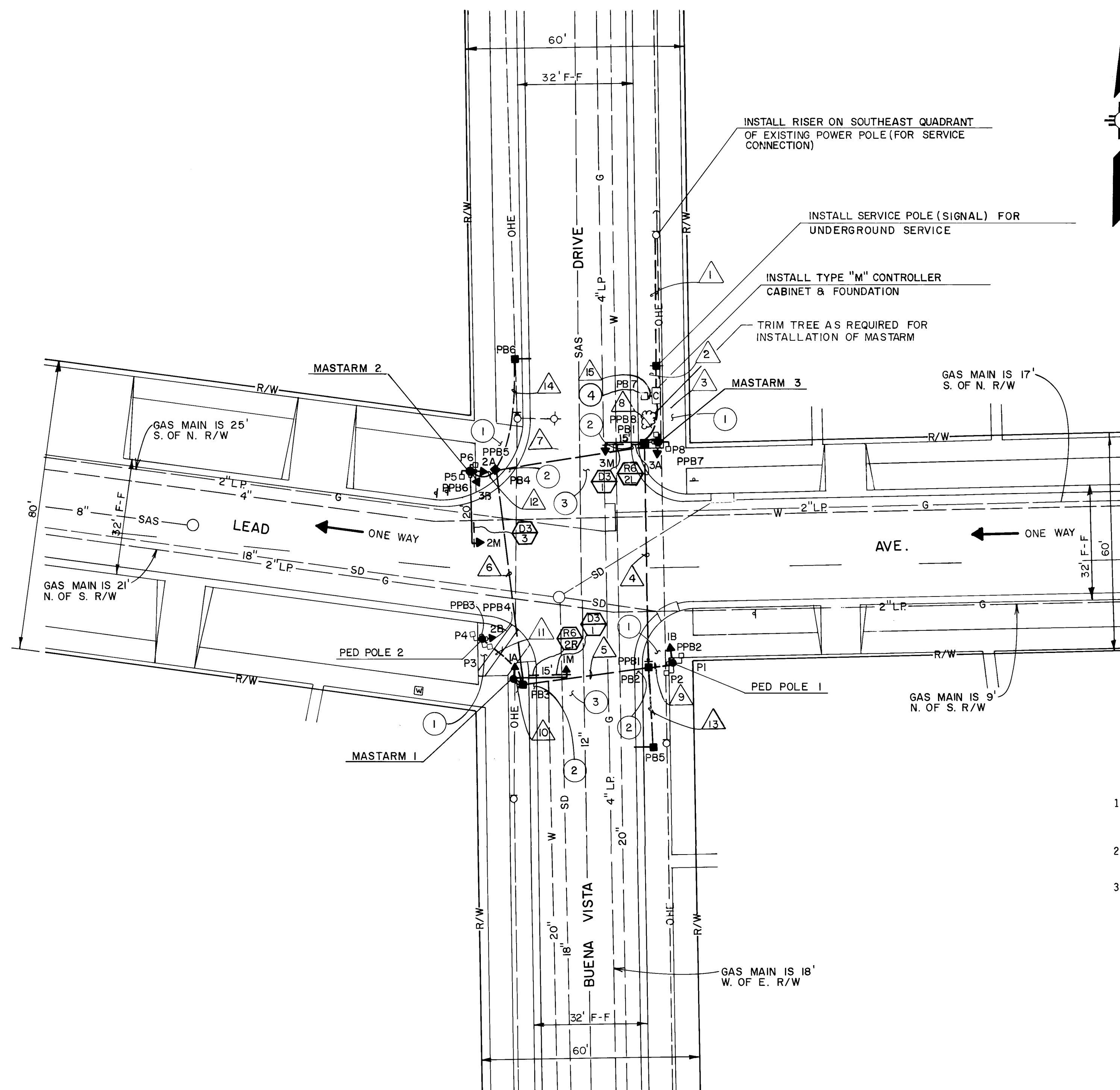


RECORD DRAWINGS
DATE 4-1-91

C of A PWD Maps & Records											
1	2	3	4	5	6	7	8	9	10	11	12
26	39	71	04	91	1						

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE:TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES TRAFFIC SIGNAL QUANTITIES AND GENERAL NOTES			
APPROVALS	ENGINEER	DATE	APPROVALS
DRG CHAIRMAN	<i>R.W. Kane</i>	2/13/90	WATER
TRANSPORTATION	<i>R.W. Kane</i>	2-14-90	WASTE WATER
HYDROLOGY	<i>R.W. Kane</i>	2/4/90	
DRAWING NO.	3971	MAP NO.	K-15.K-16.K-17
SHEET 4		OF 27	

BRUNING

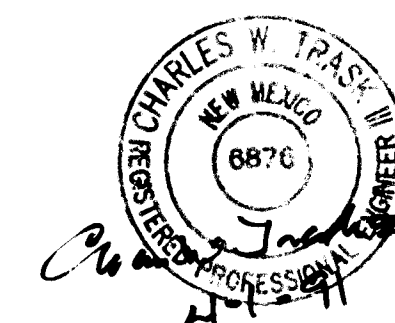


LEAD / BUENA VISTA - SIGNAL PLAN

SCALE: 1" = 20'

C of A PWD Maps & Records

2 4 3 9 7 10 5 9 1 1



RECORD DRAWINGS

DATE 4-1-91

KEYED NOTES

- 1 REMOVE AND REPLACE CONCRETE SIDEWALK AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES, AND CONDUITS. SEE C.O.A. DRAWING 2430.
- 2 REMOVE AND REPLACE CONCRETE STANDARD CURB AND GUTTER AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL CONDUITS. SEE C.O.A. DRAWING 2415.
- 3 REMOVE AND REPLACE RESIDENTIAL PAVEMENT AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES AND CONDUITS. SEE SHEET 4 FOR TYPICAL PAVEMENT SECTION.
- 4 INTERCONNECT PULLBOX AND COILED INTERCONNECT CABLE BY OTHERS.

FHWA Region No. 6		NEW MEXICO		SHEET NO. 5		TOTAL SHEETS 27	
SIGNAL HEAD DETAILS				AS-BUILT INFORMATION			
R Y G 1M, 2M, 3M 1A, 1B, 2A 2B, 3A, 3B Hand Walk P1, P2, P3, P4 P5, P6, P7, P8				CONTRACTOR: MCDADE/WOODCOCK WORK: N/A CITY: DATE: N/A INSPECTION: DATE: 4-1-91 ACCEPTANCE: DATE: 4-1-91 FIELD: DATE: 4-1-91 DRAWING: DATE: 4-1-91 CORRECTED BY: BHI MICRO-FILM INFORMATION RECORDED BY: DATE: NO.			
SIGNAL CONTROLLER PHASING				BENCH MARKS			
N Flash Condition RED BALL HEADS 1A, 1B, 1M, 3A, 3B, 3M YELLOW BALL HEADS 2A, 2B, 2M Back Up Time Setting MINIMUM INITIAL 3 3 VEHICLE EXTENSION 3 3 MAXIMUM 1 30 30 MAXIMUM 2 40 40 YELLOW CHANGE 3.5 3.5 RED CLEAR 1.0 1.0 WALK 7 7 PEDESTRIAN CLEAR 12 12 OPERATION MEM MEM				SURVEY INFORMATION			
FIELD NOTES				ENGINEER'S SEAL			
NO. BY DATE				BY DATE 1/90 DESIGNED BY BHI DRAWN BY BHI CHECKED BY CWT			
REVISIONS				REMARKS			
NO. DATE				NO. DATE			
DESIGN				DESIGN			
PEDESTRIAN PUSH BUTTON DESIGNATION SIGNS				PEDESTRIAN PUSH BUTTON DESIGNATION SIGNS			
PPB 1, 3, 5, 7 R10 - 4b L PPB 2, 4, 6, 8 R10 - 4b R				PPB 1, 3, 5, 7 R10 - 4b L PPB 2, 4, 6, 8 R10 - 4b R			
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP				CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES LEAD / BUENA VISTA - SIGNAL PLAN				TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES LEAD / BUENA VISTA - SIGNAL PLAN			
APPROVALS ENGINEER DATE APPROVALS ENGINEER DATE				APPROVALS ENGINEER DATE APPROVALS ENGINEER DATE			
DRG CHAIRMAN R.W. Kane 2-15-90 WATER R.W. Kane 2-6-90				DRG CHAIRMAN R.W. Kane 2-15-90 WATER R.W. Kane 2-6-90			
TRANSPORTATION R.W. Kane 2-14-90 WASTE WATER R.W. Kane 2-6-90				TRANSPORTATION R.W. Kane 2-14-90 WASTE WATER R.W. Kane 2-6-90			
HYDROLOGY R.W. Kane 2-14-90				HYDROLOGY R.W. Kane 2-14-90			
DRAWING NO. 3971				DRAWING NO. 3971			
MAP NO. 15				MAP NO. 15			
SHEET 5 OF 27				SHEET 5 OF 27			

CABLE RUNS

CONDUIT RUNS

FUNCTION CHART

CABLE	LENGTH	CONDUCTOR	AWG	TYPE	REMARKS
1	38'	2 1C	6	THW	FOR SERVICE
2	18'	2 1C	6	THW	FOR SERVICE
3	16'	2 20C 2 5C 2 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON
4	69'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON
5	39'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON
6	64'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON
7	49'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON
8	16'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON
9	18'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON
10	16'	1 20C 1 1C	14 10	MCC THW	COMMON
11	31'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON
12	21'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON
13	NO CABLE REQUIRED FOR FUTURE USE				
14	NO CABLE REQUIRED FOR FUTURE USE				

PED POLE-1	13'	5C	14	MCC	SIGNAL 1B
	10'	5C	14	MCC	SIGNAL P1,P2
	5'	5C	14	MCC	PPB1 PPB2
MASTARM-1	35'	5C	14	MCC	SIGNAL 1M
	13'	5C	14	MCC	SIGNAL 1A
PED POLE-2	13'	5C	14	MCC	SIGNAL 2B
	10'	5C	14	MCC	SIGNAL P3,P4
	5'	5C	14	MCC	PPB3 PPB4
MASTARM-2	40'	5C	14	MCC	SIGNAL 2M
	13'	5C	14	MCC	SIGNAL 2A
	13'	5C	14	MCC	SIGNAL 3B
	10'	5C	14	MCC	SIGNAL P5,P6
	5'	5C	14	MCC	PPB5 PPB6
MASTARM-3	35'	5C	14	MCC	SIGNAL 3M
	13'	5C	14	MCC	SIGNAL 3A
	10'	5C	14	MCC	SIGNAL P7,P8
	5'	5C	14	MCC	PPB7 PPB8

15 NO CABLE REQUIRED, BY OTHERS FOR INTERCONNECT

CONDUIT	LENGTH	SIZE	TYPE	REMARKS
1	35'	1"	REC	FOR SERVICE
2	10'	1"	"	FOR SERVICE
3	10'	2-3"	"	
4	65'	3"	"	
5	35'	3"	"	
6	60'	3"	"	
7	45'	3"	"	
8	10'	2"	"	
9	12'	2"	"	
10	10'	2"	"	
11	25'	2"	"	
12	15'	2"	"	
13	25'	2"	"	
14	30'	2"	"	
15	7'	2"	"	TIE TO INTERCONNECT PULLBOX

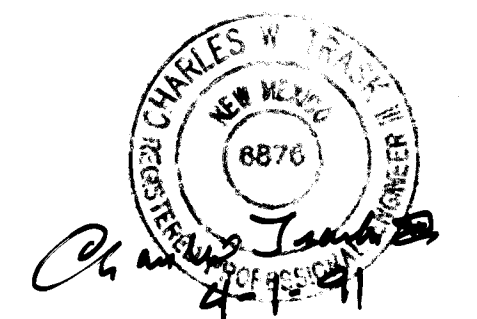
CON- BASE (RING 1)
DUCTOR COLOR TRACER FUNCTION FIELD CONNECTION

1.	BLACK	-	SPARE	-
2.	WHITE	-	SPARE	-
3.	RED	-	SPARE	-
4.	GREEN	-	SPARE	-
5.	ORANGE	-	SPARE	-
6.	BLUE	-	SPARE	-
7.	WHITE	BLACK	SPARE	-
8.	RED	BLACK	Ø2 RED	2A,2M,2B RED
9.	GREEN	BLACK	Ø2 GREEN	2A,2M,2B GR
10.	ORANGE	BLACK	Ø2 YELLOW	2A,2M,2B YEL
11.	BLUE	BLACK	Ø2 WALK	P2,P3,P6,P7 WALK
12.	BLACK	WHITE	Ø2 Dont Walk	P2,P3,P6,P7 Dont Walk
13.	RED	WHITE	SPARE	-
14.	GREEN	WHITE	SPARE	-
15.	BLUE	WHITE	SPARE	-
16.	BLACK	RED	Ø4 RED	1A,1M,1B,3A,3M,3B RED
17.	WHITE	RED	Ø4 GREEN	1A,1M,1B,3A,3M,3B GR
18.	ORANGE	RED	Ø4 YELLOW	1A,1M,1B,3A,3M,3B YEL
19.	BLUE	RED	Ø4 WALK	P4,P5,P1,P8 WALK
20.	RED	GREEN	Ø4 Dont Walk	P4,P5,P1,P8 Dont Walk

NOTE: IDENTIFY CABLES ABOVE AS "115 VOLTS" AND CABLES BELOW AS "P.P.B.-LOW VOLTAGE" AT EACH SPLICE POINT. 5 CONDUCTOR CABLE 24 VOLTS (PUSH BUTTONS ONLY).

1.	BLACK	-	Ø2 PPB	PPB2,PPB3,PPB6,PPB7
2.	WHITE	-	COMMON	PPB1 THRU PPB8
3.	RED	-	Ø4 PPB	PPB4,PPB5,PPB1,PPB8
4.	GREEN	-	SPARE	-
5.	ORANGE	-	SPARE	-

26 307106911



RECORD DRAWINGS
DATE 4-1-91

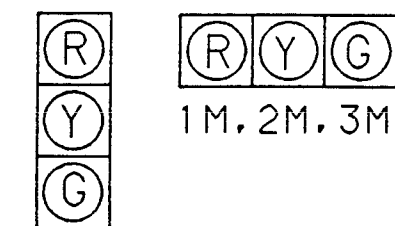
AS-BUILT INFORMATION	CONTRACTOR	MCDADE/WOODCOCK	CITY	DENVER	DATE	1-91
BENCH MARKS	INSPECTOR'S		CITY		DATE	1-91
SURVEY INFORMATION	ACCEPTANCE BY		CITY		DATE	1-91
FIELD NOTES	NO.	BY	DATE			
ENGINEER'S SEAL	NO.	DATE				
REVISIONS	NO.	DATE				
DESIGN	NO.	DATE				
REMARKS	NO.	DATE				
DESIGNED BY	BHI	DATE	1/90			
DRAWN BY	BHI	DATE	1/90			
CHECKED BY	CWT	DATE	1/90			

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES LEAD/BUENA VISTA - CABLES, CONDUITS & FUNCTIONS				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DR. CHAIRMAN	R. Kane	2-15-90	WATER	R.W. Kane	2-6-90
TRANSPORTATION	R. Kane	2-14-90	WASTE WATER	R.W. Kane	2-6-90
HYDROLOGY	R. Kane	2-14-90			
DRAWING NO.	3971	MAP NO.	K-15	SHEET	6 OF 27

KEYED NOTES

- 1 REMOVE AND REPLACE CONCRETE SIDEWALK AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES, AND CONDUITS. SEE C.O.A. DRAWING 2430.
- 2 REMOVE AND REPLACE CONCRETE STANDARD CURB AND GUTTER AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL CONDUITS. SEE C.O.A. DRAWING 2415.
- 3 REMOVE AND REPLACE RESIDENTIAL PAVEMENT AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES AND CONDUITS. SEE SHEET 4 FOR TYPICAL PAVEMENT SECTION.
- 4 INTERCONNECT PULL BOX AND COILED INTERCONNECT CABLE BY OTHERS.

SIGNAL HEAD DETAILS

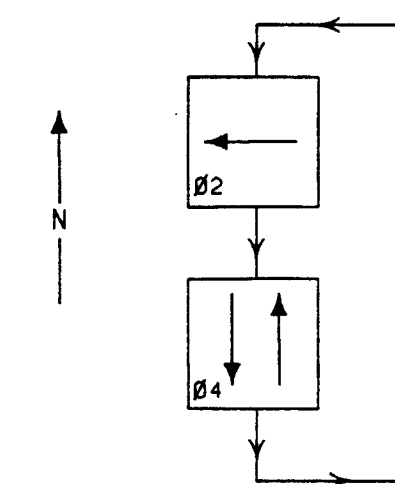


1A, 1B, 2A
2B, 3A, 3B



P1, P2, P3, P4
P5, P6, P7, P8

SIGNAL CONTROLLER PHASING



FLASH CONDITION

RED BALL HEADS 1A, 1B, 1M, 3A, 3B, 3M
YELLOW BALL HEADS 2A, 2B, 2M

BACK UP TIME SETTING

	2	4
MINIMUM INITIAL	3	3
VEHICLE EXTENSION	3	3
MAXIMUM 1	30	30
MAXIMUM 2	40	40
YELLOW CHANGE	3.5	3.5
RED CLEAR	1.0	1.0
WALK	7	7
PEDESTRIAN CLEAR	10	10
OPERATION	MEM	MEM

INITIALIZATION

PHASE 2 YELLOW
CLEARANCE INTERVAL

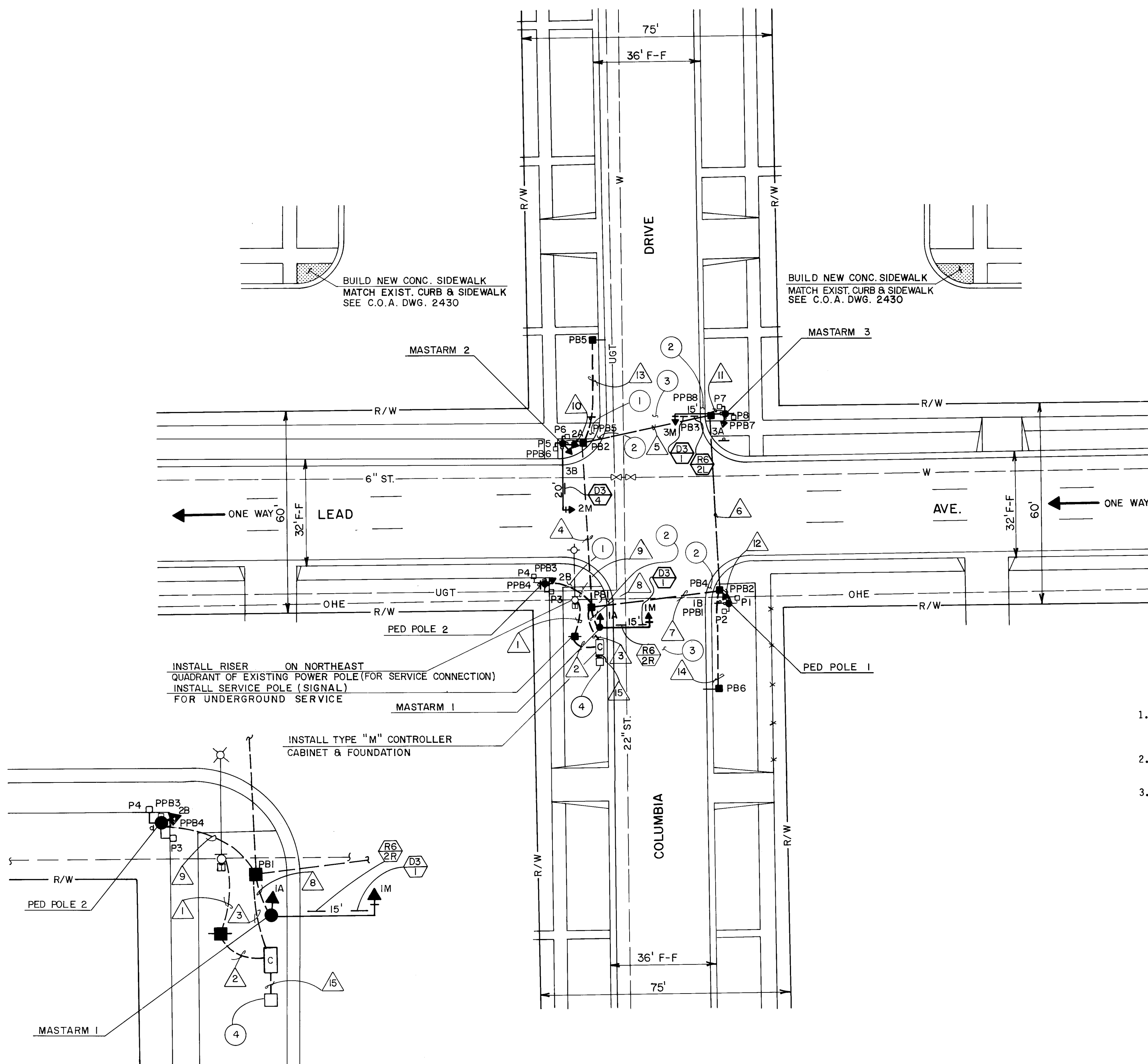
PEDESTRIAN PUSH BUTTON
DESIGNATION SIGNS

PPB 1, 3, 5, 7	R10 - 45 L
PPB 2, 4, 6, 8	R10 - 45 R

C of A PWD Maps & Records
1 2 3 4 5 6 7 8 9 10 11 12
26 39 71 07 91



RECORD DRAWINGS
DATE 4-1-91



SW CORNER DETAIL

SCALE: 1" = 10'

LEAD / COLUMBIA - SIGNAL PLAN

SCALE: 1" = 20'

NOTES

1. PULL BOXES 5 AND 6 SHALL EACH HAVE A 1" STUB OUT FOR FUTURE LOOP DETECTORS, SEE LOOP TERMINATION DETAIL SHEET 22.
2. PULL COILED INTERCONNECT CABLE FROM INTERCONNECT PULL BOX TO CONTROLLER AND CONNECT TO CONTROLLER.
3. IF INTERCONNECT PULL BOX IS NOT PRESENT, THE CONTRACTOR SHALL STUB OUT CONDUIT RUN 15' AT THE SHOWN LOCATION FOR THE INTERCONNECT PULL BOX AND MARK THIS LOCATION FOR FUTURE REFERENCE.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES LEAD / COLUMBIA - SIGNAL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Ray, J. [Signature]	2/13/90	WATER	R.W. Kama	2-6-90
TRANSPORTATION	[Signature]	2-4-90	WASTE WATER	R.W. Kama	2-6-90
HYDROLOGY	[Signature]	4-1-91			
DRAWING NO.	3971	MAP NO.	K-16	SHEET	7 OF 27

FUNCTION CHART

CABLE						CONDUIT					CON-					BASE (RING 1)				
LENGTH	CONDUCTOR	AWG	TYPE	REMARKS		LENGTH	SIZE	TYPE	REMARKS	DUCTOR	COLOR	TRACER	FUNCTION	FIELD CONNECTION						
△1	20'	2 1C	6	THW	FOR SERVICE	△1	12'	1"	REC	FOR SERVICE										
△2	18'	2 1C	6	THW	FOR SERVICE	△2	10'	1"	"	FOR SERVICE										
△3	18'	2 20C 2 5C 2 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	△3	12'	2-3"	"											
△4	54'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	△4	50'	3"	"											
△5	44'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	△5	40'	3"	"											
△6	59'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	△6	55'	3"	"											
△7	44'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	△7	40'	3"	"											
△8	18'	1 20C 1 1C	14 10	MCC THW	COMMON	△8	12'	2"	"											
△9	26'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	△9	20'	2"	"											
△10	18'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	△10	12'	2"	"											
△11	16'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	△11	10'	2"	"											
△12	16'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	△12	10'	2"	"											
△13	NO CABLE REQUIRED FOR FUTURE USE					△13	30'	2"	"											
△14	NO CABLE REQUIRED FOR FUTURE USE					△14	30'	2"	"											
PED POLE-1	13'	5C	14	MCC	SIGNAL 1B	△15	7'	2"	"	TIE TO INTERCONNECT PULL BOX										
	10'	5C	14	MCC	SIGNAL P1,P2															
	5'	5C	14	MCC	PPB1 PPB2															
MASTARM-1	35'	5C	14	MCC	SIGNAL 1M															
	13'	5C	14	MCC	SIGNAL 1A															
PED POLE 2	13'	5C	14	MCC	SIGNAL 2B															
	10'	5C	14	MCC	SIGNAL P3,P4															
	5'	5C	14	MCC	PPB3 PPB4															
MASTARM-2	40'	5C	14	MCC	SIGNAL 2M															
	13'	5C	14	MCC	SIGNAL 2A															
	13'	5C	14	MCC	SIGNAL 3B															
	10'	5C	14	MCC	SIGNAL P5,P6															
	5'	5C	14	MCC	PPB5 PPB6															
MASTARM-3	35'	5C	14	MCC	SIGNAL 3M															
	13'	5C	14	MCC	SIGNAL 3A															
	10'	5C	14	MCC	SIGNAL P7,P8															
	5'	5C	14	MCC	PPB7 PPB8															
△15	NO CABLE REQUIRED, BY OTHERS																			

1.	BLACK	-	SPARE	-
2.	WHITE	-	SPARE	-
3.	RED	-	SPARE	-
4.	GREEN	-	SPARE	-
5.	ORANGE	-	SPARE	-
6.	BLUE	-	SPARE	-
7.	WHITE	BLACK	SPARE	-
8.	RED	BLACK	Ø2 RED	2A,2M,2B RED
9.	GREEN	BLACK	Ø2 GREEN	2A,2M,2B GR
10.	ORANGE	BLACK	Ø2 YELLOW	2A,2M,2B YEL
11.	BLUE	BLACK	Ø2 WALK	P2,P3,P6,P7 WALK
12.	BLACK	WHITE	Ø2 Dont Walk	P2,P3,P6,P7 Dont Walk
13.	RED	WHITE	SPARE	-
14.	GREEN	WHITE	SPARE	-
15.	BLUE	WHITE	SPARE	-
16.	BLACK	RED	Ø4 RED	1A,1M,1B,3A,3M,3B RED
17.	WHITE	RED	Ø4 GREEN	1A,1M,1B,3A,3M,3B GR
18.	ORANGE	RED	Ø4 YELLOW	1A,1M,1B,3A,3M,3B YEL
19.	BLUE	RED	Ø4 WALK	P4,P5,P1,P8 WALK
20.	RED	GREEN	Ø4 Dont Walk	P4,P5,P1,P8 Dont Walk

NOTE: IDENTIFY CABLES ABOVE AS "115 VOLTS" AND CABLES BELOW AS "P.P.B.-LOW VOLTAGE" AT EACH SPLICE POINT.
5 CONDUCTOR CABLE 24 VOLTS (PUSH BUTTONS ONLY).

1.	BLACK	-	Ø2 PPB	PPB2,PPB3,PPB6,PPB7
2.	WHITE	-	COMMON	PPB1 THRU PPB8
3.	RED	-	Ø4 PPB	PPB4,PPB5,PPB1,PPB8
4.	GREEN	-	SPARE	-
5.	ORANGE	-	SPARE	-

NOTE: IDENTIFY CABLES ABOVE AS "115 VOLTS" AND CABLES BELOW AS "P.P.B.-LOW VOLTAGE" AT EACH SPLICE POINT.
5 CONDUCTOR CABLE 24 VOLTS (PUSH BUTTONS ONLY).

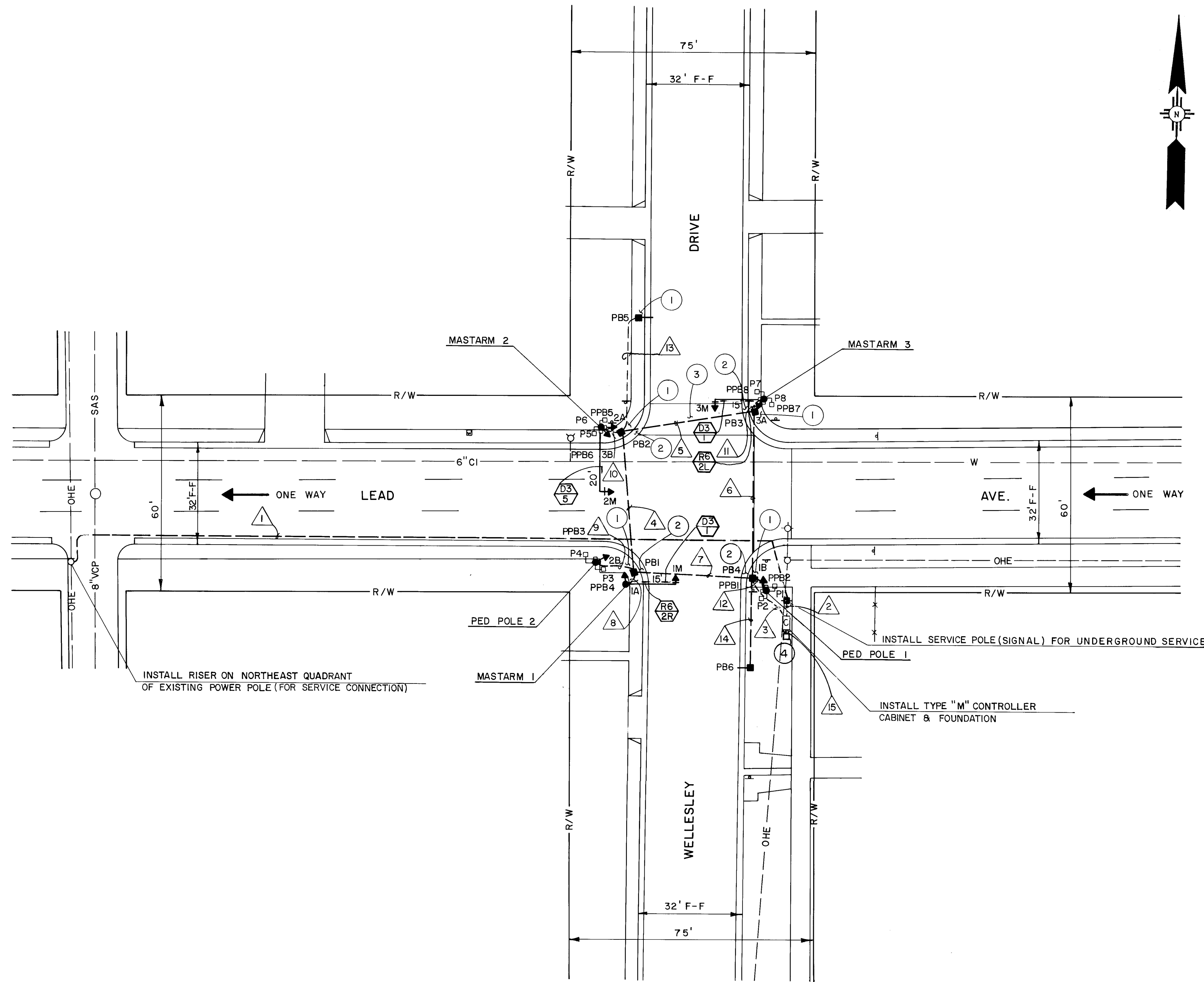
1.	BLACK	-	Ø2 PPB	PPB2, PPB3, PPB6, PPB7
2.	WHITE	-	COMMON	PPB1 THRU PPB8
3.	RED	-	Ø4 PPB	PPB4, PPB5, PPB1, PPB8
4.	GREEN	-	SPARE	-
5.	ORANGE	-	SPARE	-

C of A PWD Maps & Records											
1	2	3	4	5	6	7	8	9	10	11	12
2	6		3	9	7	1	0	8	9	1	

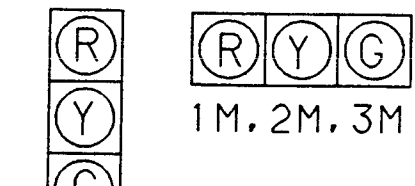
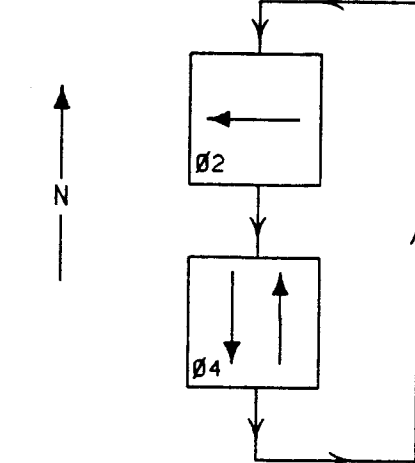


RECORD DRAWINGS
DATE 4-1-91

		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES LEAD/COLUMBIA - CABLES, CONDUITS & FUNCTIONS							
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE		
DRC CHAIRMAN	<i>[Signature]</i>	2-15-90	WATER	<i>R.W. Kane</i>	2-6-90		
TRANSPORTATION	<i>[Signature]</i>	2-14-90	WASTE WATER	<i>R.W. Kane</i>	2-6-90		
HYDROLOGY	<i>[Signature]</i>	2/15/90					
DRAWING NO. 3971		MAP NO. K-16		SHEET 8		OF 27	

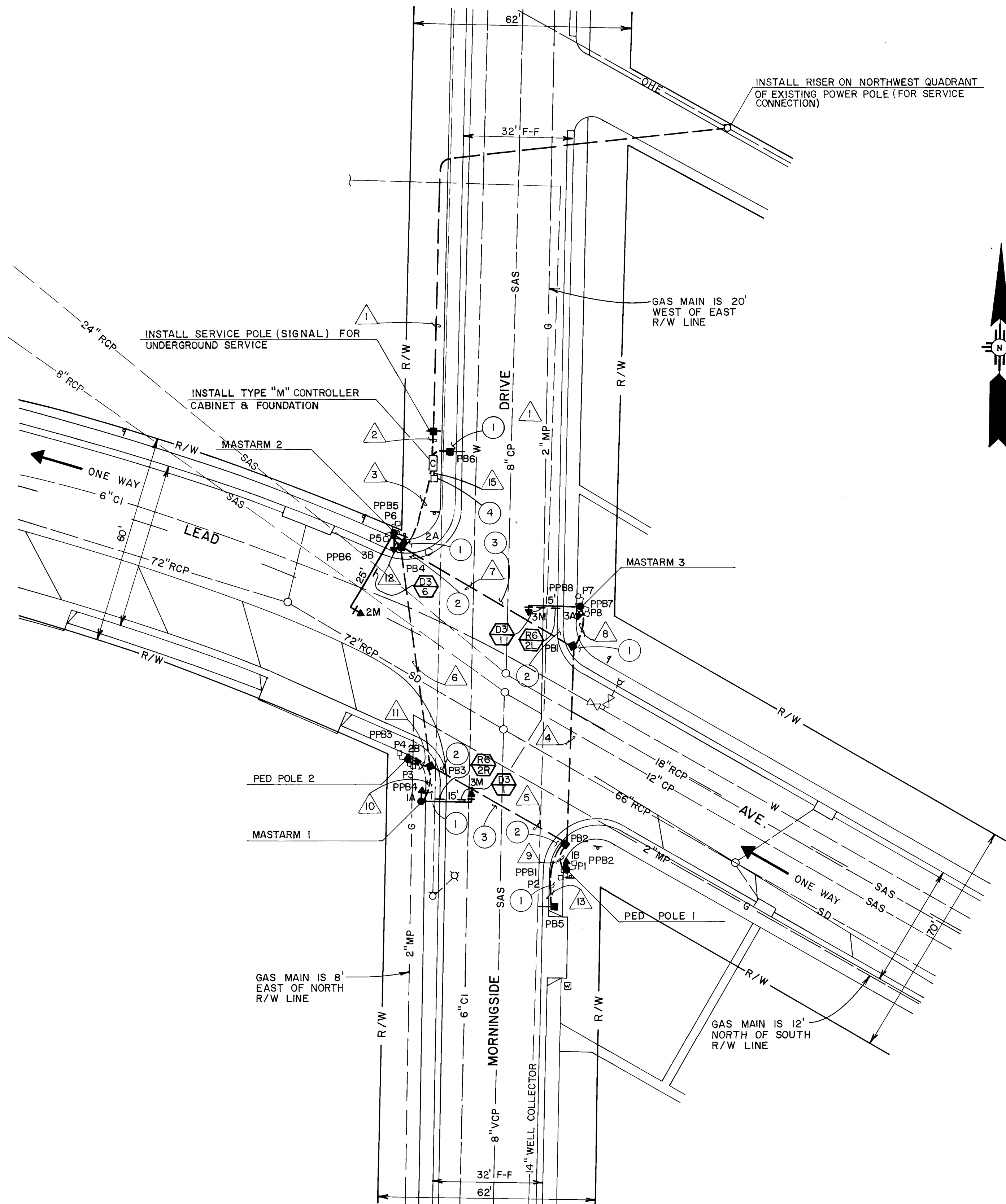


- KEYED NOTES**
- 1 REMOVE AND REPLACE CONCRETE SIDEWALK AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES, AND CONDUITS. SEE C.O.A. DRAWING 2430.
 - 2 REMOVE AND REPLACE CONCRETE STANDARD CURB AND GUTTER AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL CONDUITS. SEE C.O.A. DRAWING 2415.
 - 3 REMOVE AND REPLACE RESIDENTIAL PAVEMENT AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES AND CONDUITS. SEE SHEET 4 FOR TYPICAL PAVEMENT SECTION.
 - 4 INTERCONNECT PULL BOX AND COILED INTERCONNECT CABLE BY OTHERS.

FHWA Region No. 6		NEW MEXICO		SHEET NO. 9		TOTAL SHEETS 27																															
SIGNAL HEAD DETAILS				AS-BUILT INFORMATION																																	
				CONTRACTOR MCDADE/WOODCOCK																																	
1A, 1B, 2A 2B, 3A, 3B				CITY N/A																																	
				INSPECTOR'S CITY DATE 4-1-91																																	
P1, P2, P3, P4 P5, P6, P7, P8				CITY DATE 4-1-91																																	
SIGNAL CONTROLLER PHASING				MICRO-FILM INFORMATION																																	
				VERIFICATION BY BHI DATE 4-1-91																																	
FLASH CONDITION				RECORDED BY NO.																																	
RED BALL HEADS 1A, 1B, 1M, 3A, 3B, 3M				DATE																																	
YELLOW BALL HEADS 2A, 2B, 2M				NO.																																	
BACK UP TIME SETTING				DATE																																	
<table border="1"><thead><tr><th></th><th>B2</th><th>B4</th></tr></thead><tbody><tr><td>MINIMUM INITIAL</td><td>3</td><td>3</td></tr><tr><td>VEHICLE EXTENSION</td><td>3</td><td>3</td></tr><tr><td>MAXIMUM 1</td><td>30</td><td>30</td></tr><tr><td>MAXIMUM 2</td><td>40</td><td>40</td></tr><tr><td>YELLOW CHANGE</td><td>3.5</td><td>3.5</td></tr><tr><td>RED CLEAR</td><td>1.0</td><td>1.0</td></tr><tr><td>WALK</td><td>7</td><td>7</td></tr><tr><td>PEDESTRIAN CLEAR</td><td>12</td><td>12</td></tr><tr><td>OPERATION</td><td>HEM</td><td>HEM</td></tr></tbody></table>					B2	B4	MINIMUM INITIAL	3	3	VEHICLE EXTENSION	3	3	MAXIMUM 1	30	30	MAXIMUM 2	40	40	YELLOW CHANGE	3.5	3.5	RED CLEAR	1.0	1.0	WALK	7	7	PEDESTRIAN CLEAR	12	12	OPERATION	HEM	HEM	ENGINEER'S SEAL			
	B2	B4																																			
MINIMUM INITIAL	3	3																																			
VEHICLE EXTENSION	3	3																																			
MAXIMUM 1	30	30																																			
MAXIMUM 2	40	40																																			
YELLOW CHANGE	3.5	3.5																																			
RED CLEAR	1.0	1.0																																			
WALK	7	7																																			
PEDESTRIAN CLEAR	12	12																																			
OPERATION	HEM	HEM																																			
INITIALIZATION				BY																																	
PHASE 2 YELLOW CLEARANCE INTERVAL				REMARKS																																	
PEDESTRIAN PUSH BUTTON DESIGNATION SIGNS				REVISIONS																																	
<table border="1"><thead><tr><th>PPB</th><th>1</th><th>3</th><th>5</th><th>7</th><th>R10</th><th>4b L</th></tr></thead><tbody><tr><td>PPB</td><td>2</td><td>4</td><td>6</td><td>8</td><td>R10</td><td>4b R</td></tr></tbody></table>				PPB	1	3	5	7	R10	4b L	PPB	2	4	6	8	R10	4b R	DESIGNED BY BHI DATE 1/90																			
PPB	1	3	5	7	R10	4b L																															
PPB	2	4	6	8	R10	4b R																															
				DRAWN BY BHI DATE 1/90																																	
				CHECKED BY CWT DATE 1/90																																	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP																																					
TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES LEAD / WELLESLEY - SIGNAL PLAN																																					
APPROVALS		ENGINEER		DATE		APPROVALS																															
DRC CHAIRMAN		R. W. Kane		2/15/90		WATER																															
TRANSPORTATION		R. W. Kane		2-14-90		WASTE WATER																															
HYDROLOGY		R. W. Kane		2-6-90																																	
DRAWING NO. 3971		MAP NO. K-16		SHEET 9 OF 27																																	

LEAD / WELLESLEY - SIGNAL PLAN
SCALE: 1" = 20'

C of A : WD Maps & Records
1 2 3 4 5 6 7 8 9 10 11 12
26 39 71 09 91
RECORD DRAWING
DATE 4-1-91



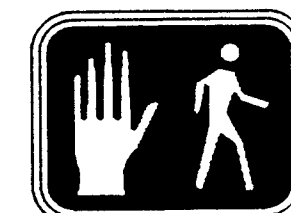
- KEYED NOTES**
- 1 REMOVE AND REPLACE CONCRETE SIDEWALK AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES, AND CONDUITS. SEE C.O.A. DRAWING 2430.
 - 2 REMOVE AND REPLACE CONCRETE STANDARD CURB AND GUTTER AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL CONDUITS. SEE C.O.A. DRAWING 2415.
 - 3 REMOVE AND REPLACE RESIDENTIAL PAVEMENT AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES AND CONDUITS. SEE SHEET 4 FOR TYPICAL PAVEMENT SECTION.
 - 4 INTERCONNECT PULL BOX AND COILED INTERCONNECT CABLE BY OTHERS.

- NOTES**
1. PULL BOXES 5 AND 6 SHALL EACH HAVE A 1" STUB OUT FOR FUTURE LOOP DETECTORS, SEE LOOP TERMINATION DETAIL SHEET 22.
 2. PULL COILED INTERCONNECT CABLE FROM INTERCONNECT PULL BOX TO CONTROLLER AND CONNECT TO CONTROLLER.
 3. IF INTERCONNECT PULL BOX IS NOT PRESENT, THE CONTRACTOR SHALL STUB OUT CONDUIT RUN 15' AT THE SHOWN LOCATION FOR THE INTERCONNECT PULL BOX AND MARK THIS LOCATION FOR FUTURE REFERENCE.

SIGNAL HEAD DETAILS

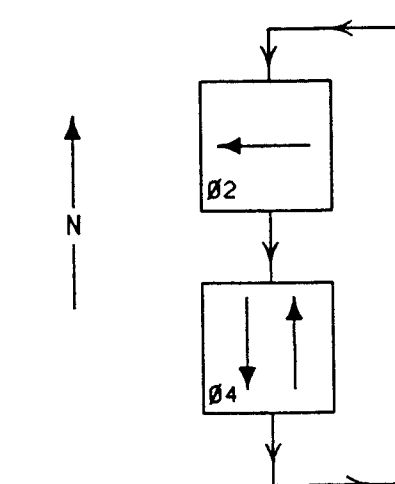


1A, 1B, 2A
2B, 3A, 3B



P1, P2, P3, P4
P5, P6, P7, P8

SIGNAL CONTROLLER PHASING



FLASH CONDITION

RED BALL HEADS 1A, 1B, 1M, 3A, 3B, 3M
YELLOW BALL HEADS 2A, 2B, 2M

BACK UP TIME SETTING

	#2	#4
MINIMUM INITIAL	3	3
VEHICLE EXTENSION	3	3
MAXIMUM 1	30	30
MAXIMUM 2	40	40
YELLOW CHANGE	3.5	3.5
RED CLEAR	1.0	1.0
WALK	7	7
PEDESTRIAN CLEAR	10	15
OPERATION	MEM	MEM

INITIALIZATION

PHASE 2 YELLOW
CLEARANCE INTERVAL

**PEDESTRIAN PUSH BUTTON
DESIGNATION SIGNS**

PPB 1, 3, 5, 7 R10 - 46 L
PPB 2, 4, 6, 8 R10 - 46 R

LEAD / MORNINGSIDE - SIGNAL PLAN

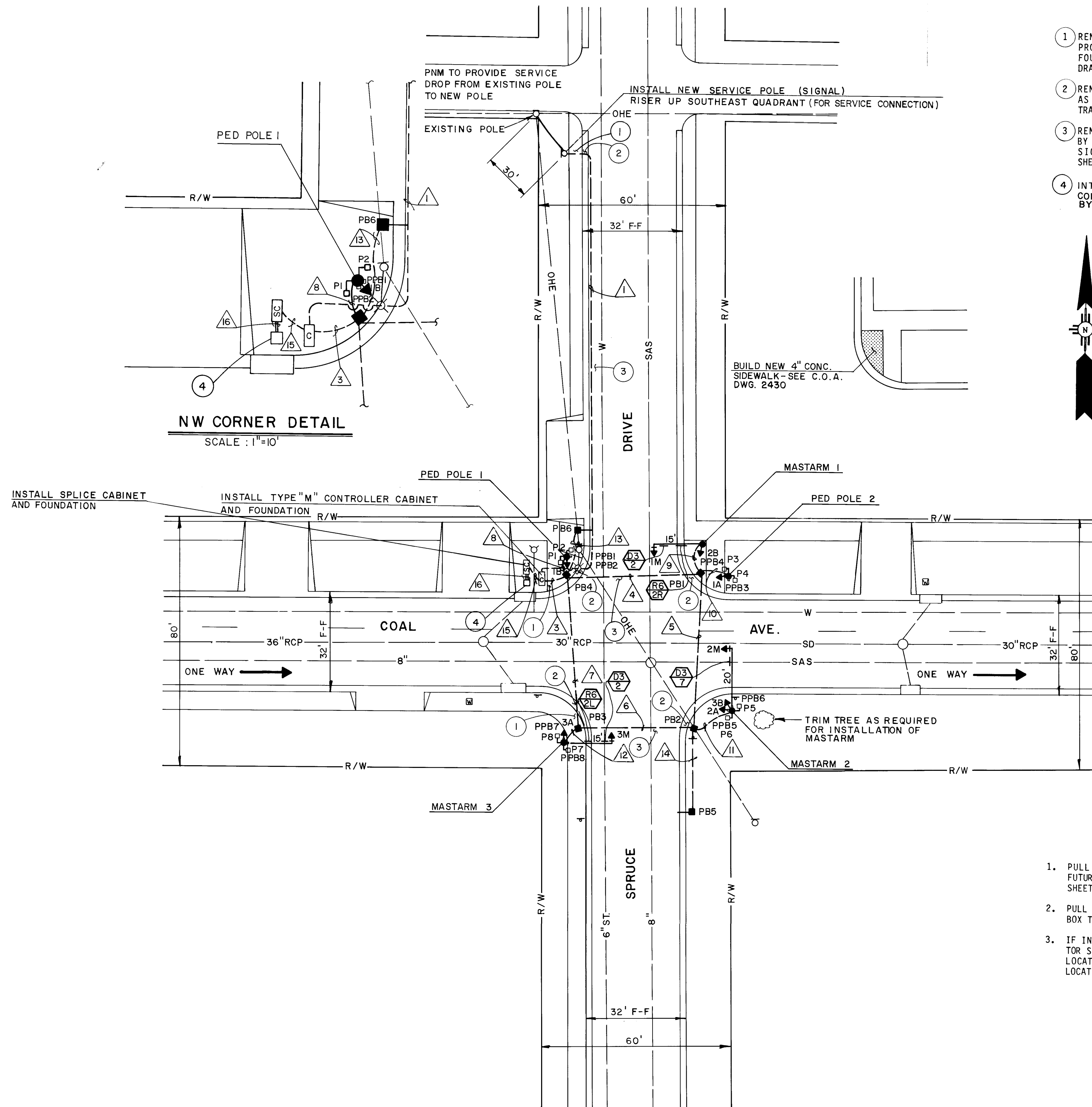
SCALE: 1" = 20'

C of A PWD Maps & Records
26 3971 11 91



CORD DRAWINGS
4-1-91

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES LEAD / MORNINGSIDE - SIGNAL PLAN			
APPROVALS	ENGINEER	DATE	APPROVALS
DRC CHAIRMAN	R.W. Kame	2/5/90	WATER
TRANSPORTATION	R.W. Kame	2/4/90	WASTE WATER
HYDROLOGY	R.W. Kame	2/4/90	
DRAWING NO.	3971	MAP NO.	K-17
SHEET	11	OF	27

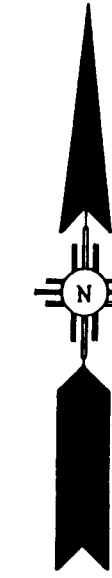


COAL / SPRUCE - SIGNAL PLAN

SCALE: 1" = 20'

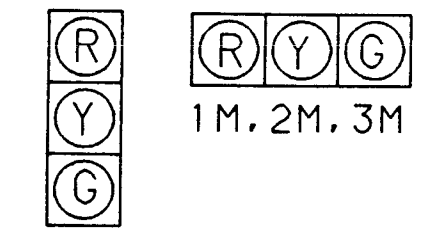
KEYED NOTES

- 1 REMOVE AND REPLACE CONCRETE SIDEWALK AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES, AND CONDUITS. SEE C.O.A. DRAWING 2430.
- 2 REMOVE AND REPLACE CONCRETE STANDARD CURB AND GUTTER AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL CONDUITS. SEE C.O.A. DRAWING 2415.
- 3 REMOVE AND REPLACE RESIDENTIAL PAVEMENT AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES AND CONDUITS. SEE SHEET 4 FOR TYPICAL PAVEMENT SECTION.
- 4 INTERCONNECT PULLBOX AND COILED INTERCONNECT CABLE BY OTHERS



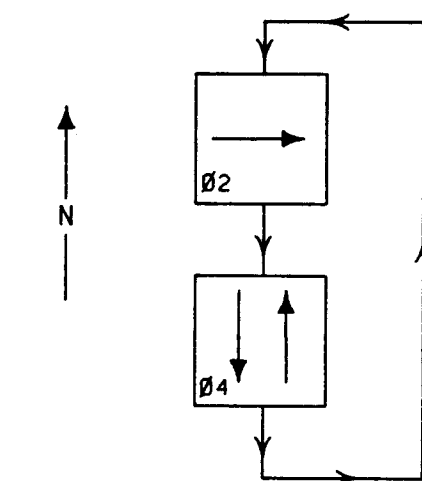
FHWA Region No.	NEW MEXICO	SHEET NO.	TOTAL SHEETS
6			

SIGNAL HEAD DETAILS



P1, P2, P3, P4
P5, P6, P7, P8

SIGNAL CONTROLLER PHASING



FLASH CONDITION

RED BALL HEADS 1A, 1B, 1M, 3A, 3B, 3M
YELLOW BALL HEADS 2A, 2B, 2M

BACK UP TIME SETTING

	B2	B4
MINIMUM INITIAL	3	3
VEHICLE EXTENSION	3	3
MAXIMUM 1	30	30
MAXIMUM 2	40	40
YELLOW CHANGE	3.5	3.5
RED CLEAR	1.0	1.0
WALK	7	7
PEDESTRIAN CLEAR	9.0	9.0
OPERATION	HEM	HEM

INITIALIZATION

PHASE 2 YELLOW
CLEARANCE INTERVAL

PEDESTRIAN PUSH BUTTON DESIGNATION SIGNS

PPB 1, 3, 5, 7 R10 - 4b L
PPB 2, 4, 6, 8 R10 - 4b R

CITY OF ALBUQUERQUE
26 39 71 13 91

RECORD DRAWINGS
4-1-91

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES COAL / SPRUCE - SIGNAL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R. W. Kane	2-6-90	WATER	R. W. Kane	2-6-90
TRANSPORTATION	R. W. Kane	2-6-90	WASTE WATER	R. W. Kane	2-6-90
HYDROLOGY	R. W. Kane	2-6-90			
DRAWING NO.	3971	MAP NO.	K-15	SHEET	13 OF 27

CABLE RUNS

CONDUIT RUNS

FUNCTION CHART

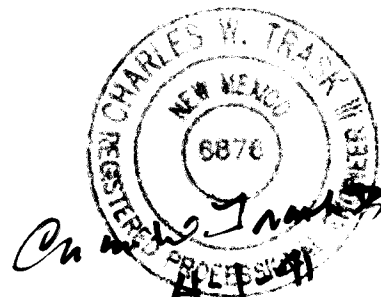
						CON- BASE (RING 1)									
CABLE	LENGTH	CONDUCTOR	AWG	TYPE	REMARKS	CONDUIT	LENGTH	SIZE	TYPE	REMARKS	DUCTOR	COLOR	TRACER	FUNCTION	FIELD CONNECTION
1	184'	2 1C	6	THW	FOR SERVICE	1	160'	1"	REC	FOR SERVICE					
2	DELETED					2	DELETED								
3	16'	2 20C 2 5C 2 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	3	10'	2-3"	"		1.	BLACK	-	SPARE	-
4	49'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	4	45'	3"	"		2.	WHITE	-	SPARE	-
5	54'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	5	50'	3"	"		3.	RED	-	SPARE	-
6	44'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	6	40'	3"	"		4.	GREEN	-	SPARE	-
7	54'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	7	50'	3"	"		5.	ORANGE	-	SPARE	-
8	18'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	8	12'	2"	"		6.	BLUE	-	SPARE	-
9	21'	1 20C 1 1C	14 10	MCC THW	COMMON	9	15'	2"	"		7.	WHITE	BLACK	SPARE	-
10	21'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	10	15'	2"	"		8.	RED	BLACK	Ø2 RED	2A,2M,2B RED
11	26'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	11	20'	2"	"		9.	GREEN	BLACK	Ø2 GREEN	2A,2M,2B GR
12	18'	1 20C 1 5C 1 1C	14 14 10	MCC MCC THW	FOR PPB'S COMMON	12	12'	2"	"		10.	ORANGE	BLACK	Ø2 YELLOW	2A,2M,2B YEL
13	NO CABLE REQUIRED FOR FUTURE USE					13	15'	2"	"		11.	BLUE	BLACK	Ø2 WALK	P2,P3,P6,P7 WALK
14	NO CABLE REQUIRED FOR FUTURE USE					14	30'	2"	"		12.	BLACK	WHITE	Ø2 Dont Walk	P2,P3,P6,P7 Dont Walk
						15	15'	2"	"	FOR INTERCONNECT	13.	RED	WHITE	SPARE	-
						16	7'	2-2"	"	TIE TO INTERCONNECT PULL BOX	14.	GREEN	WHITE	SPARE	-
											15.	BLUE	WHITE	SPARE	-
											16.	BLACK	RED	Ø4 RED	1A,1M,1B,3A,3M,3B RED
											17.	WHITE	RED	Ø4 GREEN	1A,1M,1B,3A,3M,3B GR
											18.	ORANGE	RED	Ø4 YELLOW	1A,1M,1B,3A,3M,3B YEL
											19.	BLUE	RED	Ø4 WALK	P4,P5,P1,P8 WALK
											20.	RED	GREEN	Ø4 Dont Walk	P4,P5,P1,P8 Dont Walk
PED POLE-1	13'	5C	14	MCC	SIGNAL 1B						NOTE: IDENTIFY CABLES ABOVE AS "115 VOLTS" AND CABLES BELOW AS "P.P.B.-LOW VOLTAGE" AT EACH SPLICE POINT. 5 CONDUCTOR CABLE 24 VOLTS (PUSH BUTTONS ONLY).				
	10'	5C	14	MCC	SIGNAL P1,P2						1.	BLACK	-	Ø2 PPB	PPB2,PPB3,PPB6,PPB7
	5'	5C	14	MCC	PPB1 PPB2						2.	WHITE	-	COMMON	PPB1 THRU PPB8
MASTARM-1	35'	5C	14	MCC	SIGNAL 1M						3.	RED	-	Ø4 PPB	PPB4,PPB5,PPB1,PPB8
	13'	5C	14	MCC	SIGNAL 1A						4.	GREEN	-	SPARE	-
PED POLE 2	13'	5C	14	MCC	SIGNAL 2B						5.	ORANGE	-	SPARE	-
	10'	5C	14	MCC	SIGNAL P3,P4										
	5'	5C	14	MCC	PPB3 PPB4										
MASTARM-2	40'	5C	14	MCC	SIGNAL 2M										
	13'	5C	14	MCC	SIGNAL 2A										
	13'	5C	14	MCC	SIGNAL 3B										
	10'	5C	14	MCC	SIGNAL P5,P6										
	5'	5C	14	MCC	PPB5 PPB6										
MASTARM-3	35'	5C	14	MCC	SIGNAL 3M										
	13'	5C	14	MCC	SIGNAL 3A										
	10'	5C	14	MCC	SIGNAL P7,P8										
	5'	5C	14	MCC	PPB7 PPB8										
15	23'	25 PAIR COMMUNICATION CABLE			FOR INTERCONNECT										
16	NO CABLE REQUIRED, BY OTHERS				FOR INTERCONNECT										

NOTE: IDENTIFY CABLES ABOVE AS "115 VOLTS" AND CABLES BELOW AS "P.P.B.-LOW VOLTAGE" AT EACH SPLICE POINT.
5 CONDUCTOR CABLE 24 VOLTS (PUSH BUTTONS ONLY).

- | | | | | |
|----|--------|---|--------|---------------------|
| 1. | BLACK | - | Ø2 PPB | PPB2,PPB3,PPB6,PPB7 |
| 2. | WHITE | - | COMMON | PPB1 THRU PPB8 |
| 3. | RED | - | Ø4 PPB | PPB4,PPB5,PPB1,PPB8 |
| 4. | GREEN | - | SPARE | - |
| 5. | ORANGE | - | SPARE | - |

C of A PWD Maps & Records

20 3 9 7 1 1 4 9 1



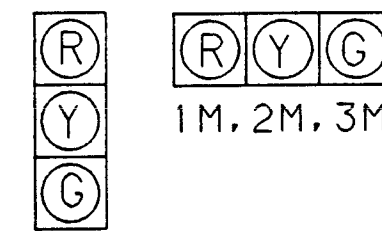
RECORD DRAWINGS
DATE 4-1-91

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	
CONTRACTOR	MCDADE/WOODCOCK	CITY	DATE N/A	NO.	BY	DATE		NO.	DATE	DESIGNED BY	DATE 1/90	DRAWN BY	DATE 1/90	CHECKED BY	DATE 1/90
INSPECTOR'S	BY DATE	CITY	DATE 4-1-91												
FIELD MADE BY		CITY	DATE 4-1-91												
VERIFICATION BY		CITY	DATE 4-1-91												
CONNECTED BY		CITY	DATE 4-1-91												
RECORDED BY		CITY	DATE												
NO.															

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES COAL/SPRUCE - CABLES, CONDUITS & FUNCTIONS			
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ORC CHAIRMAN		2/1/90	WATER		2-6-90
TRANSPORTATION		2-14-91	WASTE WATER		2-6-90
HYDROLOGY		2-14-91			
DRAWING NO.	3971	MAP NO.	K-15	SHEET	14 OF 27

- KEYED NOTES**
- 1 REMOVE AND REPLACE CONCRETE SIDEWALK AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES, AND CONDUITS. SEE C.O.A. DRAWING 2430.
 - 2 REMOVE AND REPLACE CONCRETE STANDARD CURB AND GUTTER AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL CONDUITS. SEE C.O.A. DRAWING 2415.
 - 3 REMOVE AND REPLACE RESIDENTIAL PAVEMENT AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES AND CONDUITS. SEE SHEET 4 FOR TYPICAL PAVEMENT SECTION.
 - 4 INTERCONNECT PULL BOX AND COILED INTERCONNECT CABLE BY OTHERS.

SIGNAL HEAD DETAILS

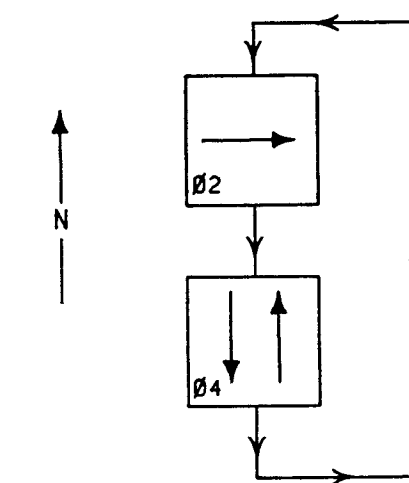


1A, 1B, 2A
2B, 3A, 3B



P1, P2, P3, P4
P5, P6, P7, P8

SIGNAL CONTROLLER PHASING



FLASH CONDITION

RED BALL HEADS 1A, 1B, 1M, 3A, 3B, 3M
YELLOW BALL HEADS 2A, 2B, 2M

BACK UP TIME SETTING

	B2	B4
MINIMUM INITIAL	3	3
VEHICLE EXTENSION	3	3
MAXIMUM 1	30	30
MAXIMUM 2	40	40
YELLOW CHANGE	3.5	3.5
RED CLEAR	1.0	1.0
WALK	7	7
PEDESTRIAN CLEAR	9.0	9.0
OPERATION	MEM	MEM

INITIALIZATION

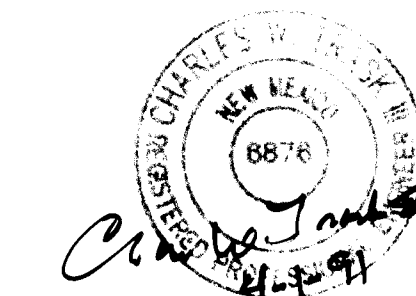
PHASE 2 YELLOW
CLEARANCE INTERVAL

**PEDESTRIAN PUSH BUTTON
DESIGNATION SIGNS**

PPB	1, 3, 5, 7	R10 - 45 L
PPB	2, 4, 6, 8	R10 - 45 R

- NOTES**
1. PULL BOXES 5 AND 6 SHALL EACH HAVE A 1" STUB OUT FOR FUTURE LOOP DETECTORS, SEE LOOP TERMINATION DETAIL SHEET 22.
 2. PULL COILED INTERCONNECT CABLE FROM INTERCONNECT PULL BOX TO SPLICE CABINET AND TIE TO SPLICE CABINET.
 3. IF INTERCONNECT PULL BOX IS NOT PRESENT, THE CONTRACTOR SHALL STUB OUT CONDUIT RUN 15' AT THE SHOWN LOCATION FOR THE INTERCONNECT PULL BOX AND MARK THIS LOCATION FOR FUTURE REFERENCE.
 4. THE CONTRACTOR SHALL NOTIFY PNM AT LEAST 14 DAYS PRIOR TO STARTING CONSTRUCTION ON THE SOUTHWEST CORNER OF THIS INTERSECTION SO THAT PNM CAN REMOVE EXISTING STREET LIGHT AND INSTALL NEW STREET LIGHT

C of A PNM Maps & Records
1 2 3 4 5 6 7 8 9 10
26 39 71 15 91



RECORD DRAWINGS
DATE 4-1-91

INSTALL RISER ON SOUTHWEST
QUADRANT OF EXISTING POWER
POLE (FOR SERVICE CONNECTION)

PNM TO REMOVE EXISTING
STREET LIGHT AND POLE
AND SET NEW STREET LIGHT
AND POLE APPROXIMATELY
5' WEST OF EXISTING LIGHT

INSTALL SERVICE POLE(SIGNAL) FOR
UNDERGROUND SERVICE

INSTALL TYPE "M"
CONTROLLER CABINET
& FOUNDATION

INSTALL SPLICE CABINET
AND FOUNDATION

BUILD NEW CONC. SIDEWALK
MATCH EXIST. CURB & SIDEWALKS
SEE C.O.A. DWG. 2430

BUILD NEW CONC. SIDEWALK
MATCH EXIST. CURB & SIDEWALKS
SEE C.O.A. DWG. 2430

BUILD NEW CONC. SIDEWALK
MATCH EXIST. CURB & SIDEWALKS
SEE C.O.A. DWG. 2430

COAL / STANFORD - SIGNAL PLAN

SCALE: 1" = 20'

SW CORNER DETAIL

SCALE: 1" = 10'

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: TRAFFIC SIGNAL IMPROVEMENTS
LEAD AND COAL AVENUES
COAL / STANFORD - SIGNAL PLAN

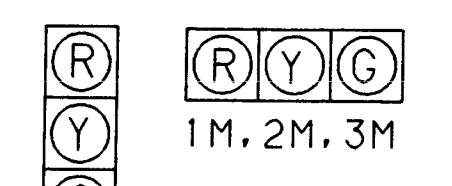
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2/1/90	WATER	R.W. Kane	2-6-90
TRANSPORTATION	<i>[Signature]</i>	2/14/90	WASTE WATER	R.W. Kane	2-6-90
HYDROLOGY	<i>[Signature]</i>	2/6/90			

DRAWING NO. 3971 MAP NO. K-16 SHEET 15 OF 27

KEYED NOTES

- 1 REMOVE AND REPLACE CONCRETE SIDEWALK AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES, AND CONDUITS. SEE C.O.A. DRAWING 2430.
- 2 REMOVE AND REPLACE CONCRETE STANDARD CURB AND GUTTER AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL CONDUITS. SEE C.O.A. DRAWING 2415.
- 3 REMOVE AND REPLACE RESIDENTIAL PAVEMENT AS APPROVED BY PROJECT ENGINEER FOR INSTALLATION OF TRAFFIC SIGNAL FOUNDATIONS, PULLBOXES AND CONDUITS. SEE SHEET 4 FOR TYPICAL PAVEMENT SECTION.
- 4 INTERCONNECT PULL BOX AND COILED INTERCONNECT CABLE BY OTHERS.

SIGNAL HEAD DETAILS

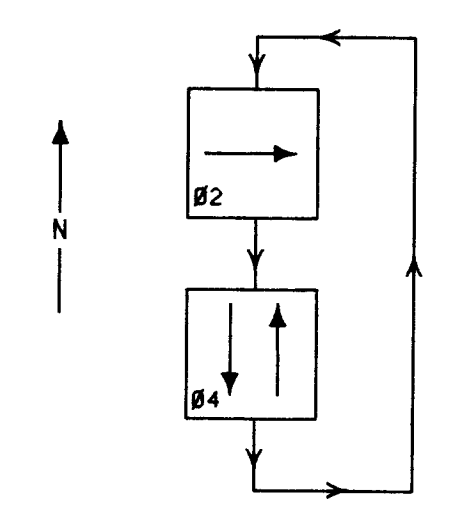


1A, 1B, 2A
2B, 3A, 3B



P1, P2, P3, P4
P5, P6, P7, P8

SIGNAL CONTROLLER PHASING



FLASH CONDITION

RED BALL HEADS 1A, 1B, 1M, 3A, 3B, 3M
YELLOW BALL HEADS 2A, 2B, 2M

BACK UP TIME SETTING

	B2	B4
MINIMUM INITIAL	3	3
VEHICLE EXTENSION	3	3
MAXIMUM 1	30	30
MAXIMUM 2	40	40
YELLOW CHANGE	3.5	3.5
RED CLEAR	1.0	1.0
WALK	7	7
PEDESTRIAN CLEAR	10	13
OPERATION	MEM	MEM

INITIALIZATION

PHASE 2 YELLOW
CLEARANCE INTERVAL

PEDESTRIAN PUSH BUTTON
DESIGNATION SIGNS

PPB 1, 3, 5, 7 R10 - 45 L
PPB 2, 4, 6, 8 R10 - 45 R

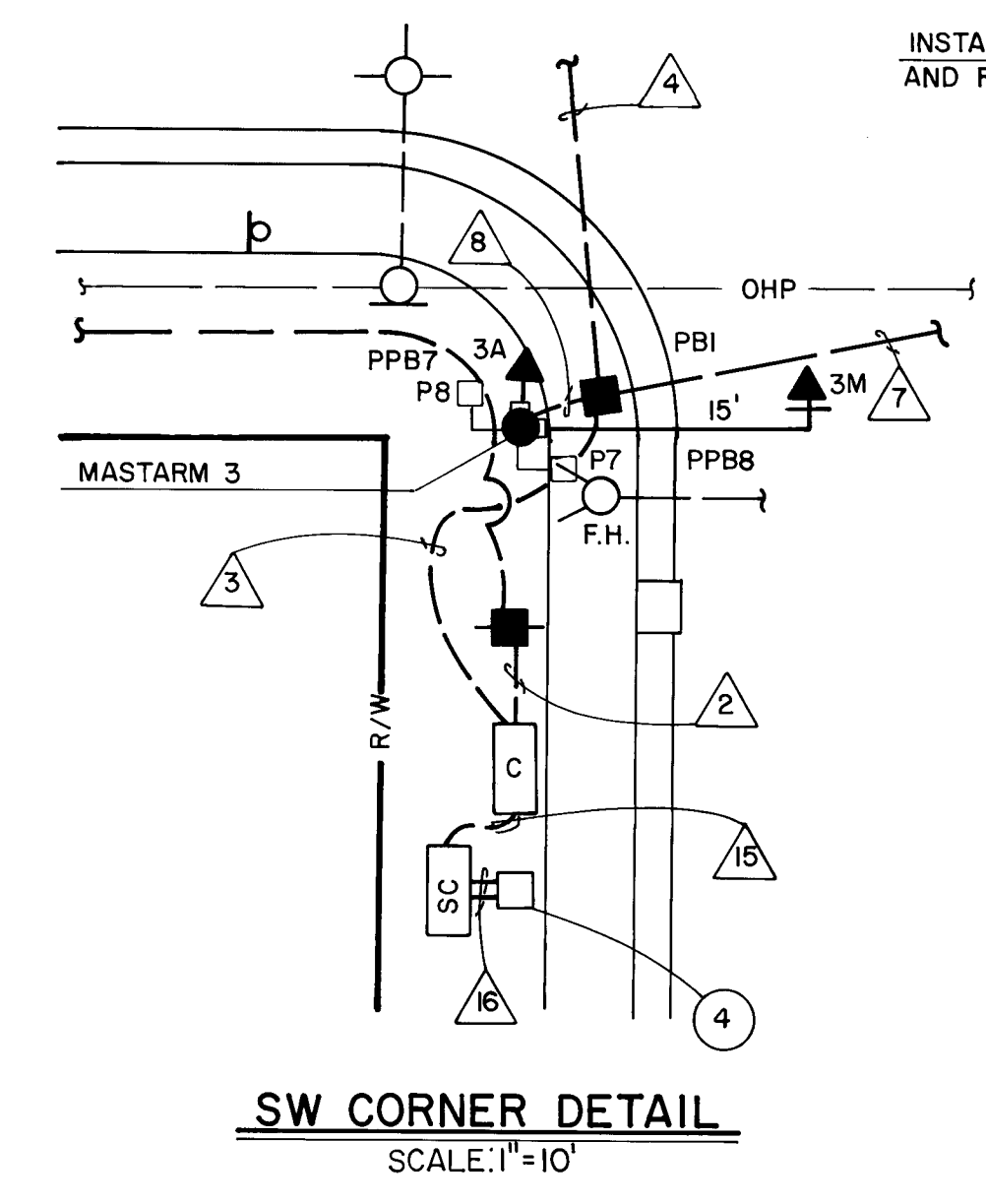
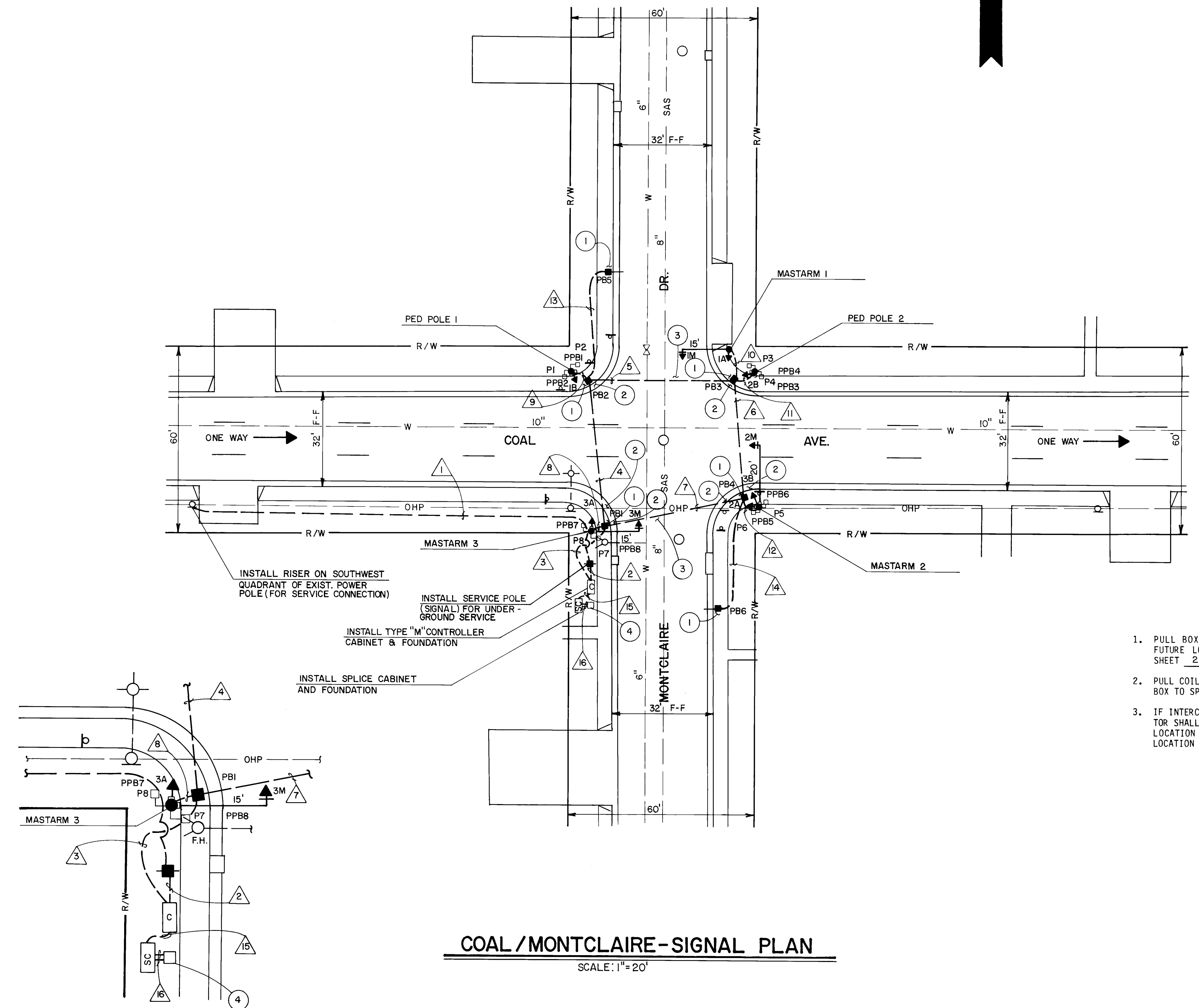
AS-BUILT INFORMATION

SURVEY INFORMATION

ENGINEER'S SEAL

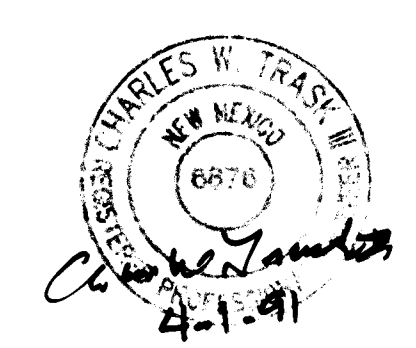
REVISIONS

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES COAL/MONTCLAIRE - SIGNAL PLANS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2/18/90	WATER	<i>R.W. Kana</i>	2-6-90
TRANSPORTATION	<i>[Signature]</i>	2-19-90	WASTE WATER	<i>R.W. Kana</i>	2-6-90
HYDROLOGY	<i>[Signature]</i>	2-6-90			
DRAWING NO.	3971	MAP NO.	K-17	SHEET	17 OF 27

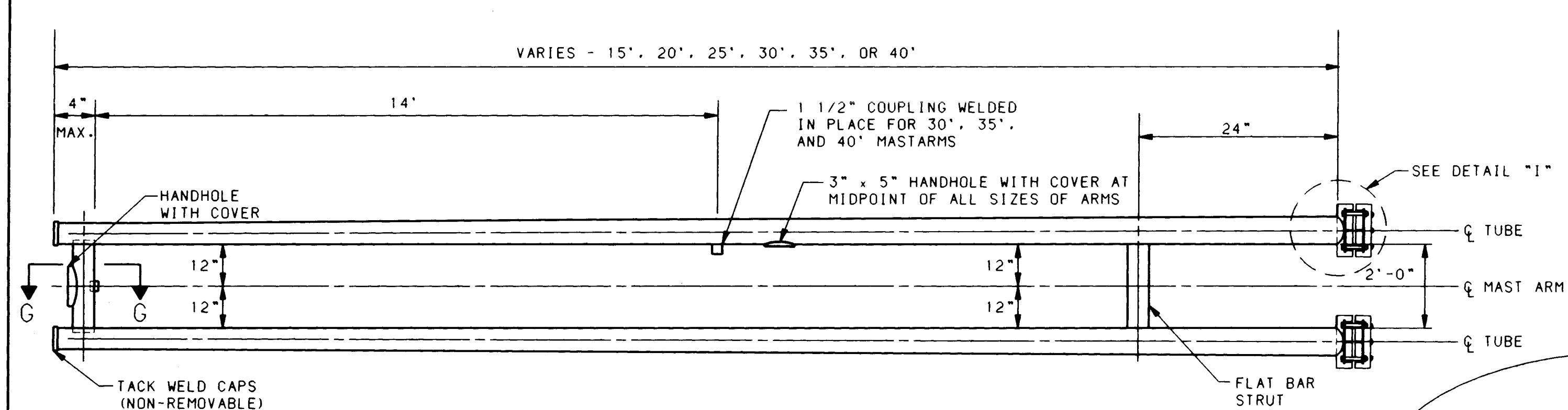


COAL / MONTCLAIRE - SIGNAL PLAN
SCALE: 1" = 20'

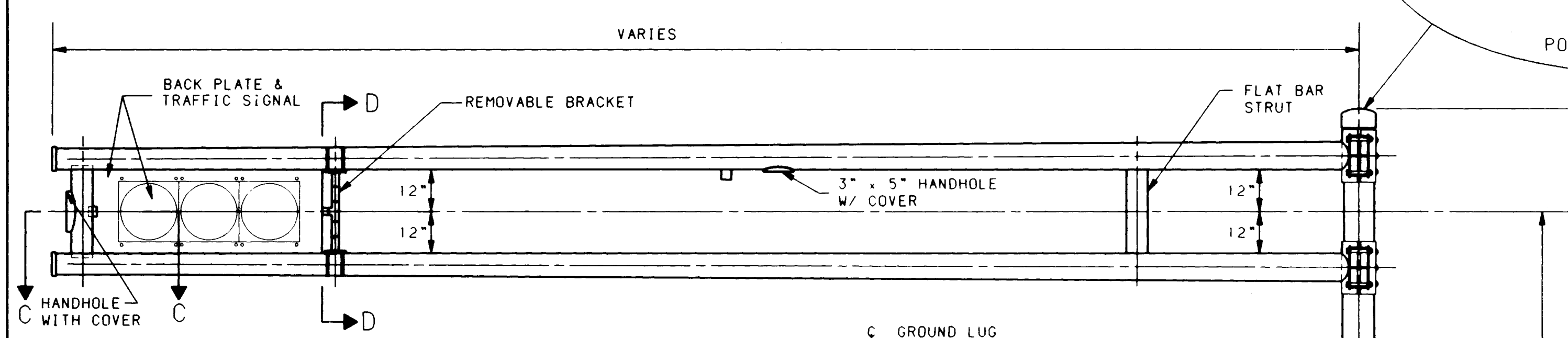
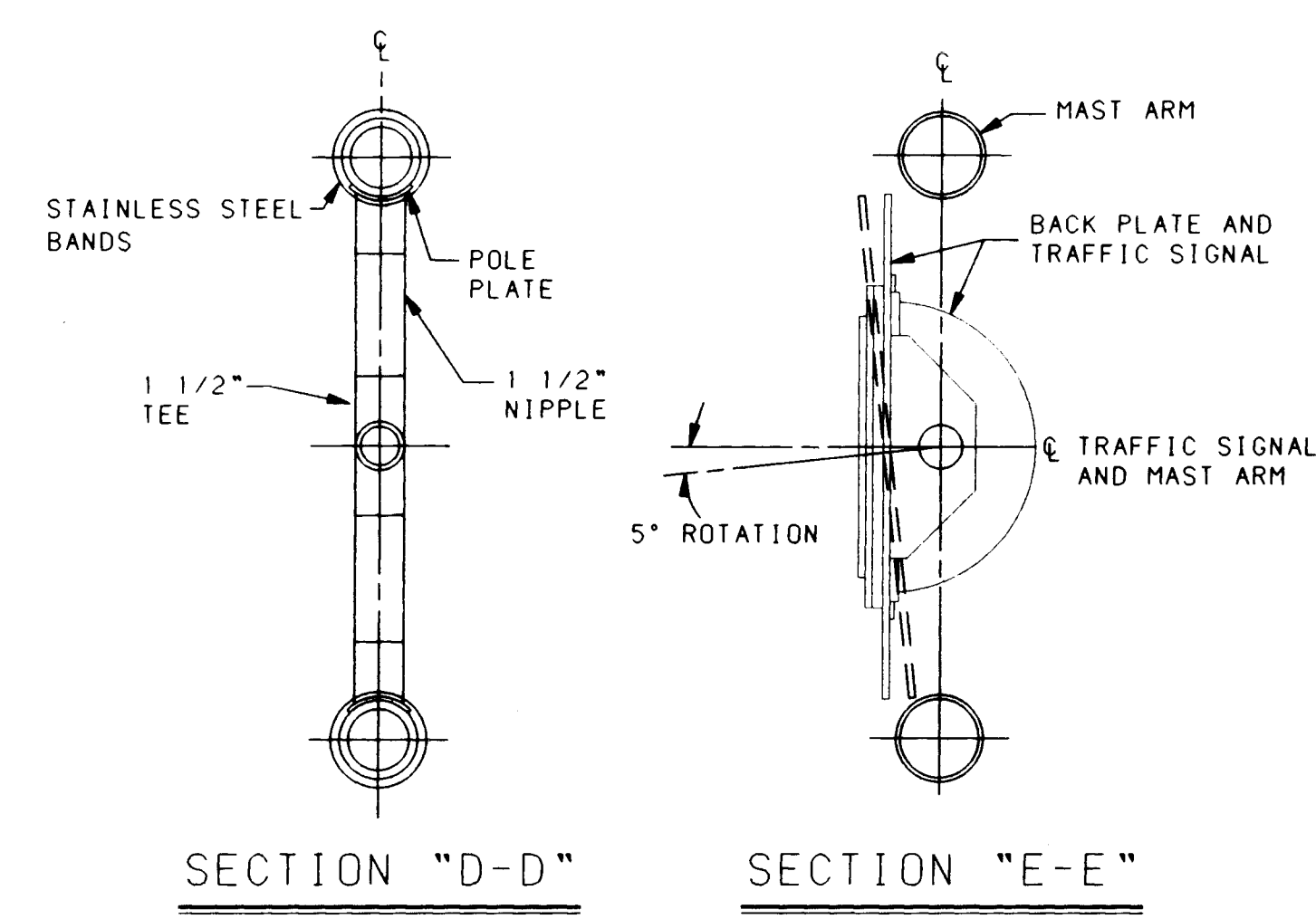
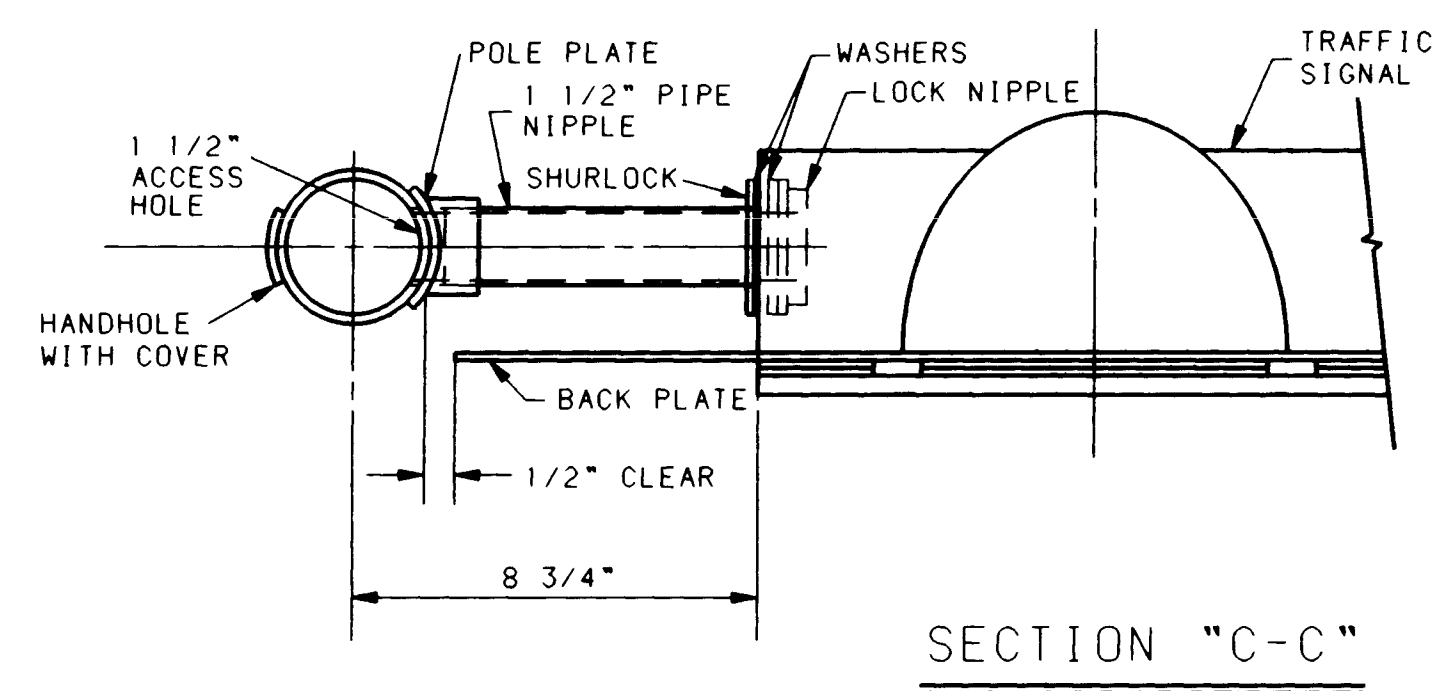
DATE AND NO. OF REVISIONS
2 6 3 9 2 1 1 7 9 1



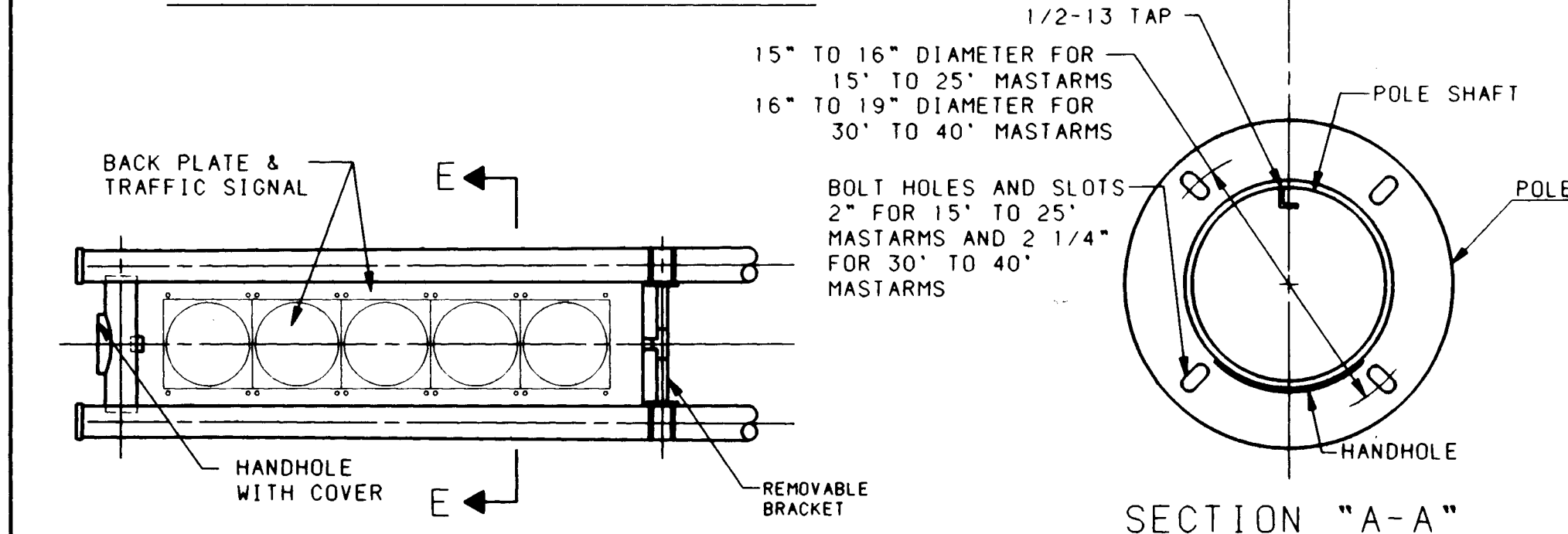
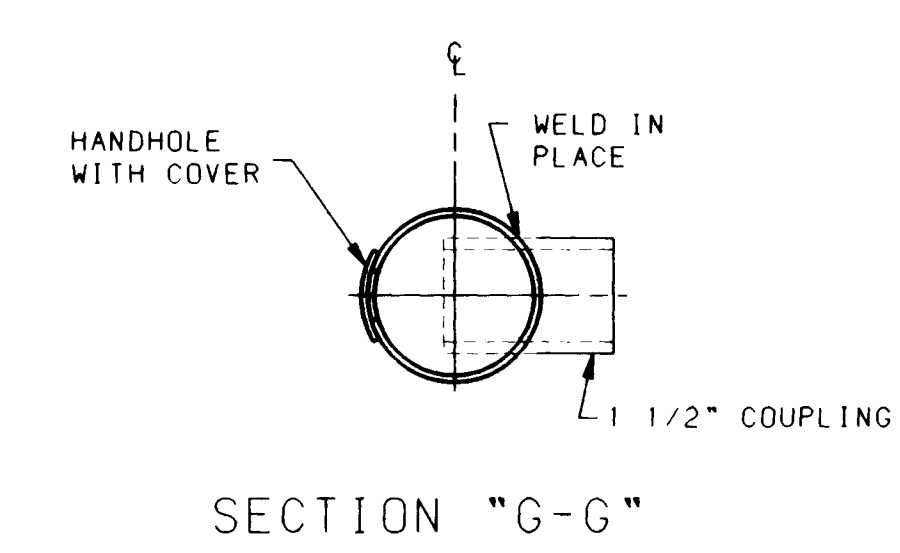
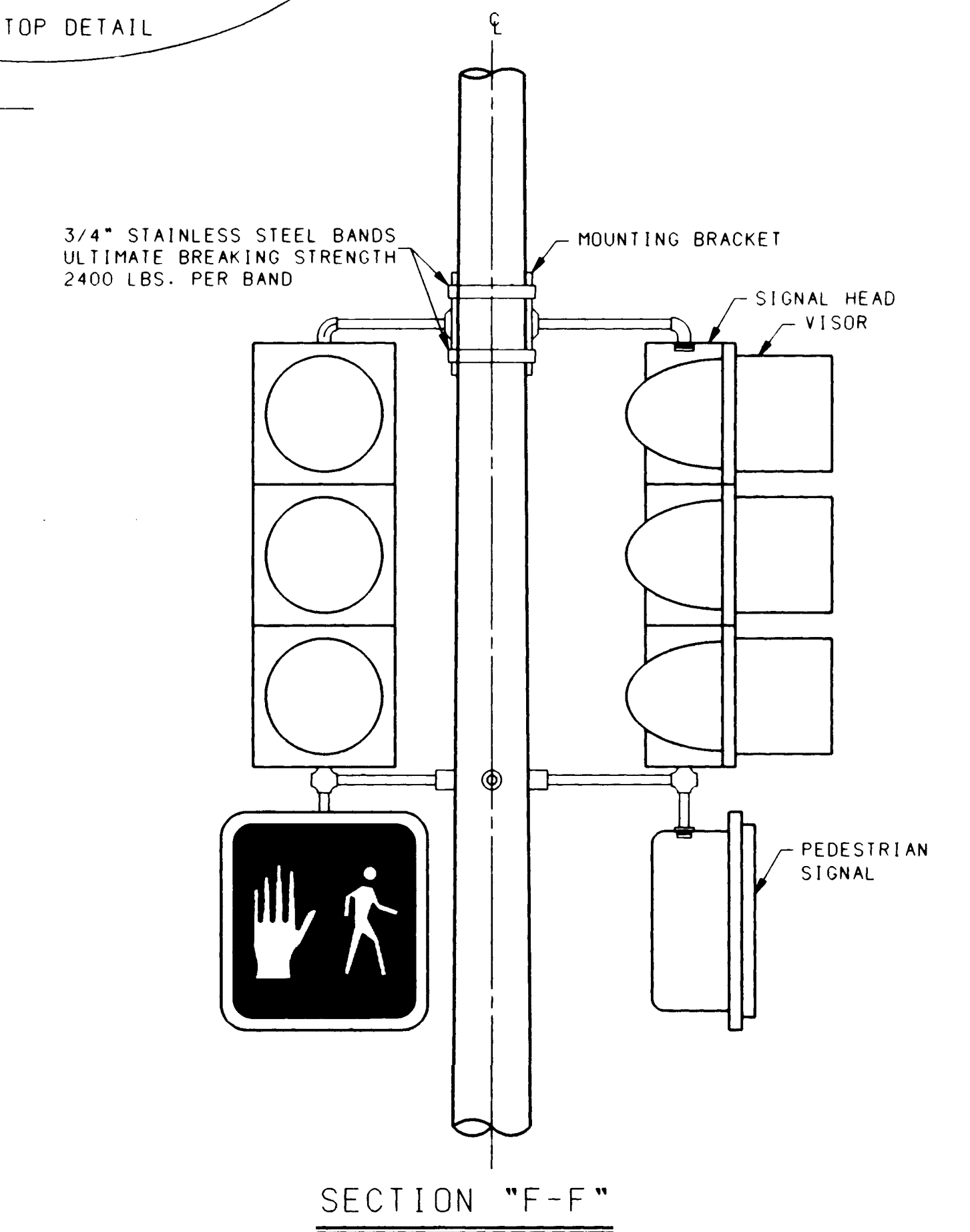
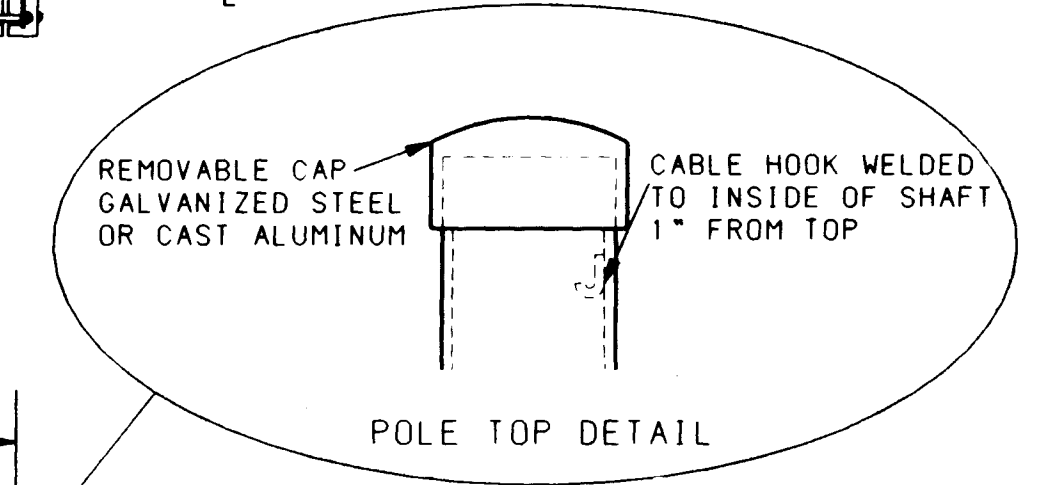
ORD DRAWINGS
4-1-91



MAST ARM TYPICAL
SEE TABLE FOR DIMENSIONS

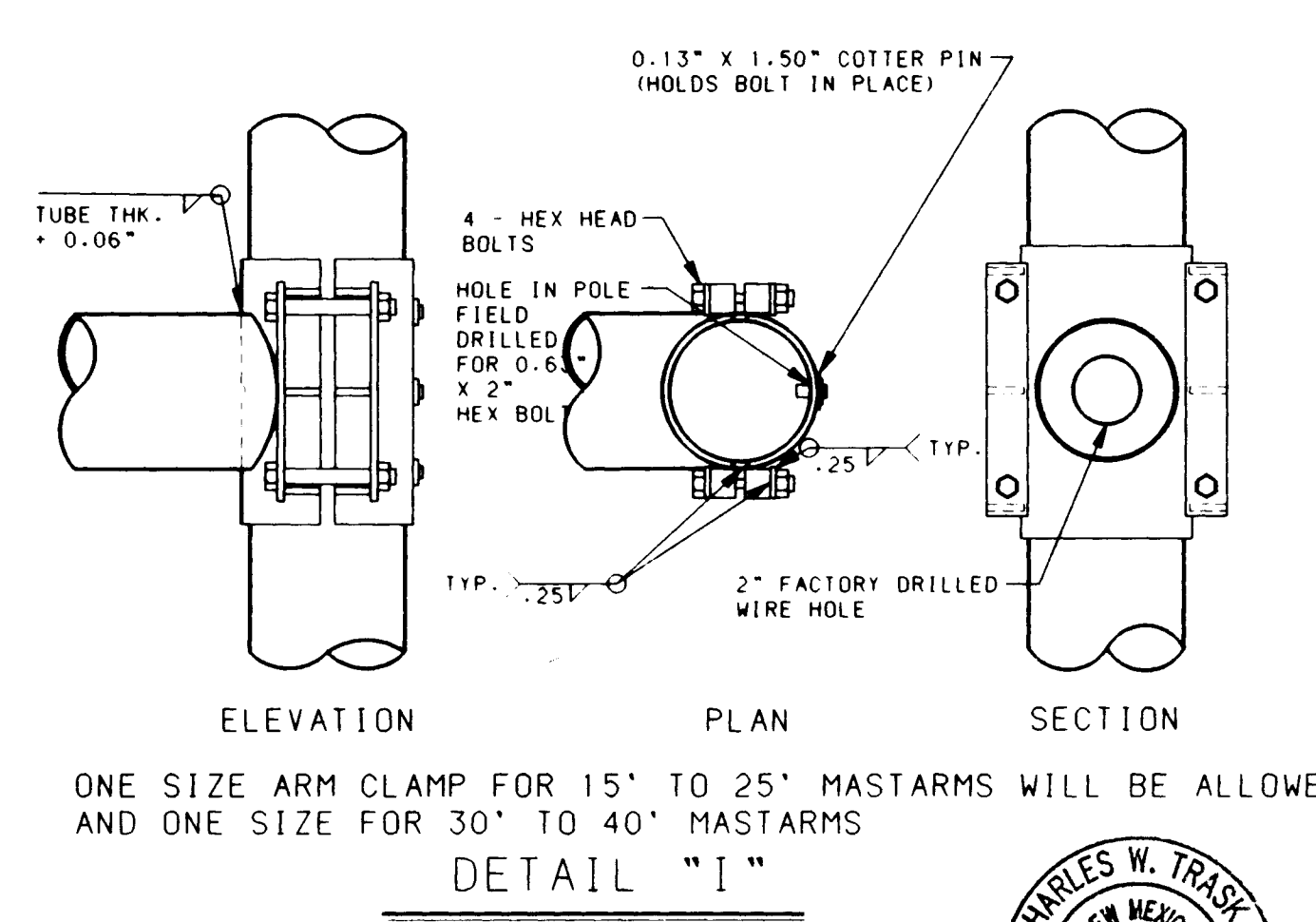


3-SECTION TRAFFIC SIGNAL

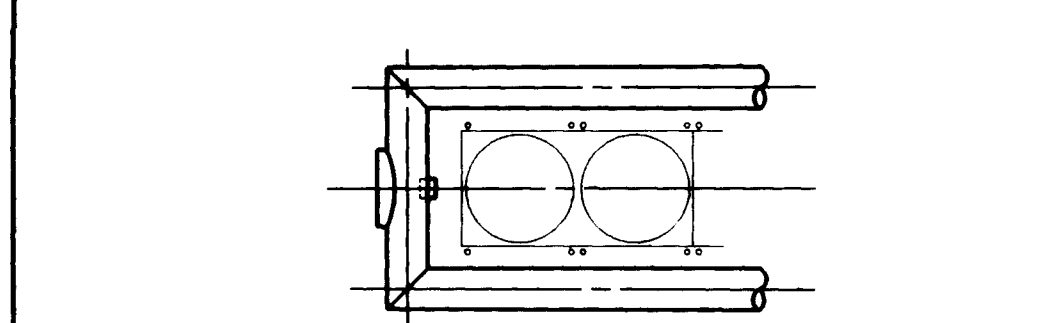


SECTION "A-A"

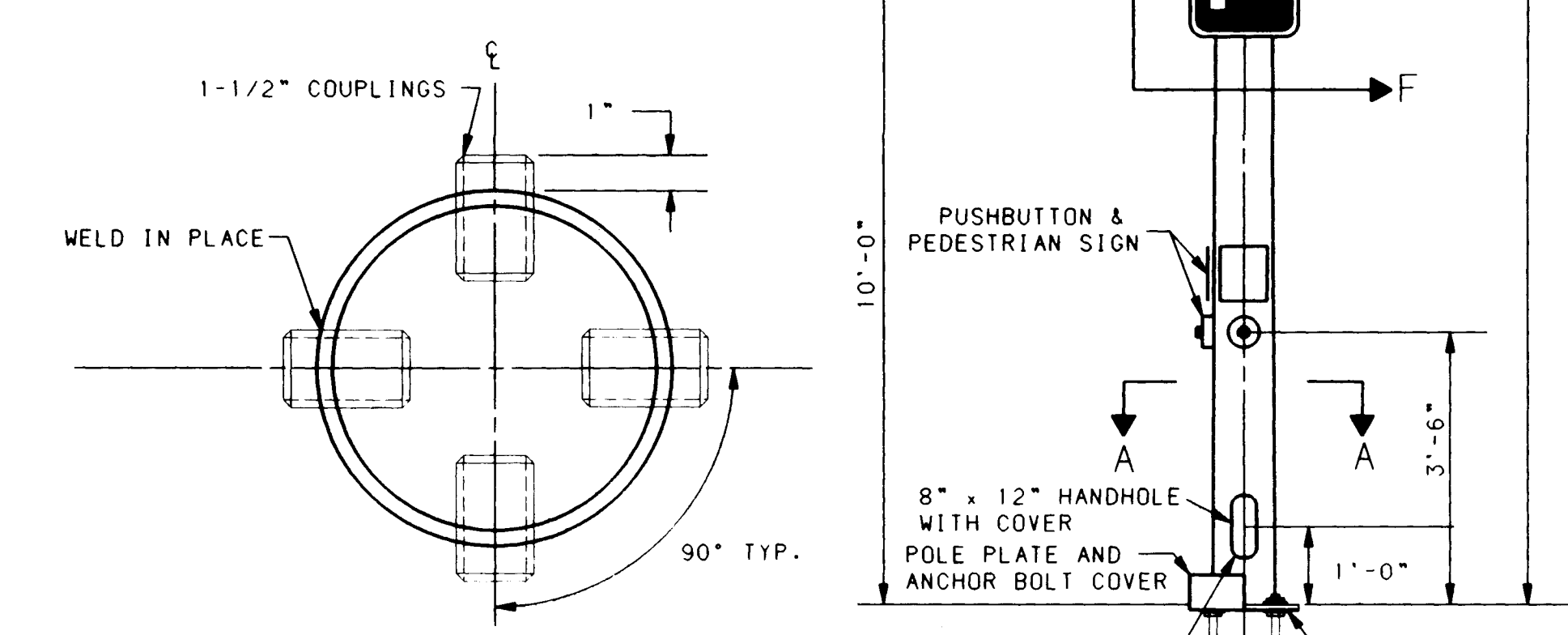
5-SECTION TRAFFIC SIGNAL



ELEVATION PLAN SECTION
ONE SIZE ARM CLAMP FOR 15' TO 25' MASTARMS WILL BE ALLOWED
AND ONE SIZE FOR 30' TO 40' MASTARMS
DETAIL "I"

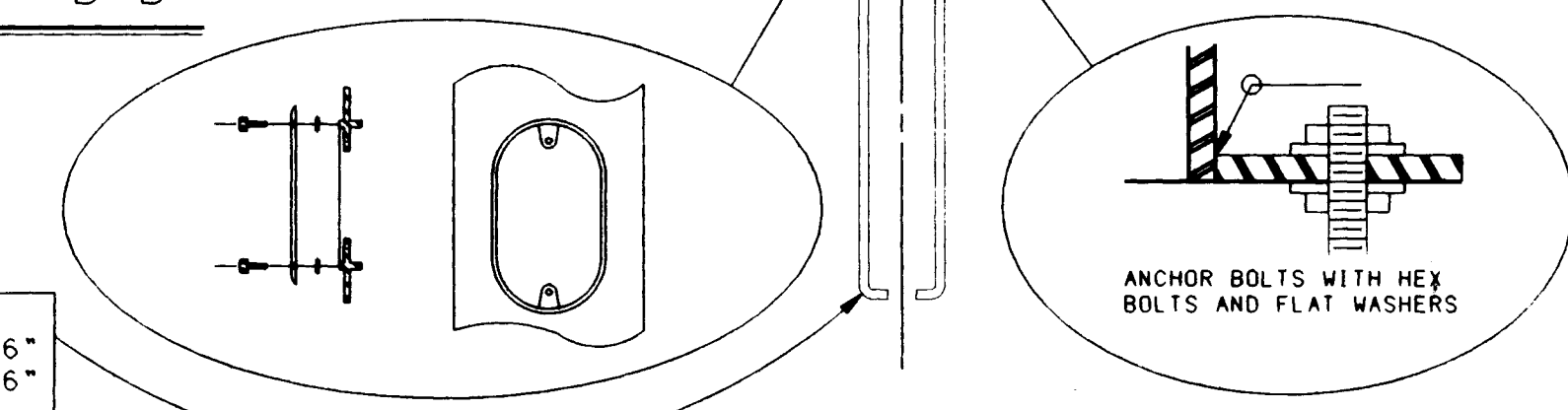


MITERED ARM END (OPTIONAL)



SECTION "B-B"

ANCHOR BOLTS
15', 20', 25' ARM: 1 1/2" X 60" X 6"
30', 35', 40' ARM: 1 3/4" X 60" X 6"



ANCHOR BOLTS WITH HEX BOLTS AND FLAT WASHERS

NOTES

- DESIGN IN ACCORDANCE WITH 1985 AASHTO SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS FOR AN 80 MPH WIND ZONE.
- POLES AND ARM SHAFTS SHALL CONFORM TO ASTM A-570 (45,000 PSI MAX + 1.25 SAFETY FACTOR YIELD).
- ALL POLES AND MASTARMS SHALL BE GALVANIZED TO ASTM A-123.
- BASE PLATE, POLES, AND ARM CONNECTING PLATES AND GUSSETS SHALL BE ASTM A-36.
- ANCHOR BOLTS SHALL BE ASTM A-36 MOD 55.
- ALL STRUCTURAL CONNECTING BOLTS SHALL BE ASTM A-325, GALVANIZED TO ASTM A-153 UNLESS OTHERWISE NOTED.
- WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY SPECIFICATION AWS D1.1, LATEST EDITION. ALL WELDS SHALL BE FREE FROM CRACKS, EXCESSIVE UNDERCUT, AND POROSITY. ANY WELDING DEFECTS SHALL BE REPAIRED BY REMOVING THE DEFECTIVE MATERIAL AND REPLACING IT WITH SOUND WELD MATERIAL.
- ALL HOLES SHALL BE DRILLED AND DEBURRED.



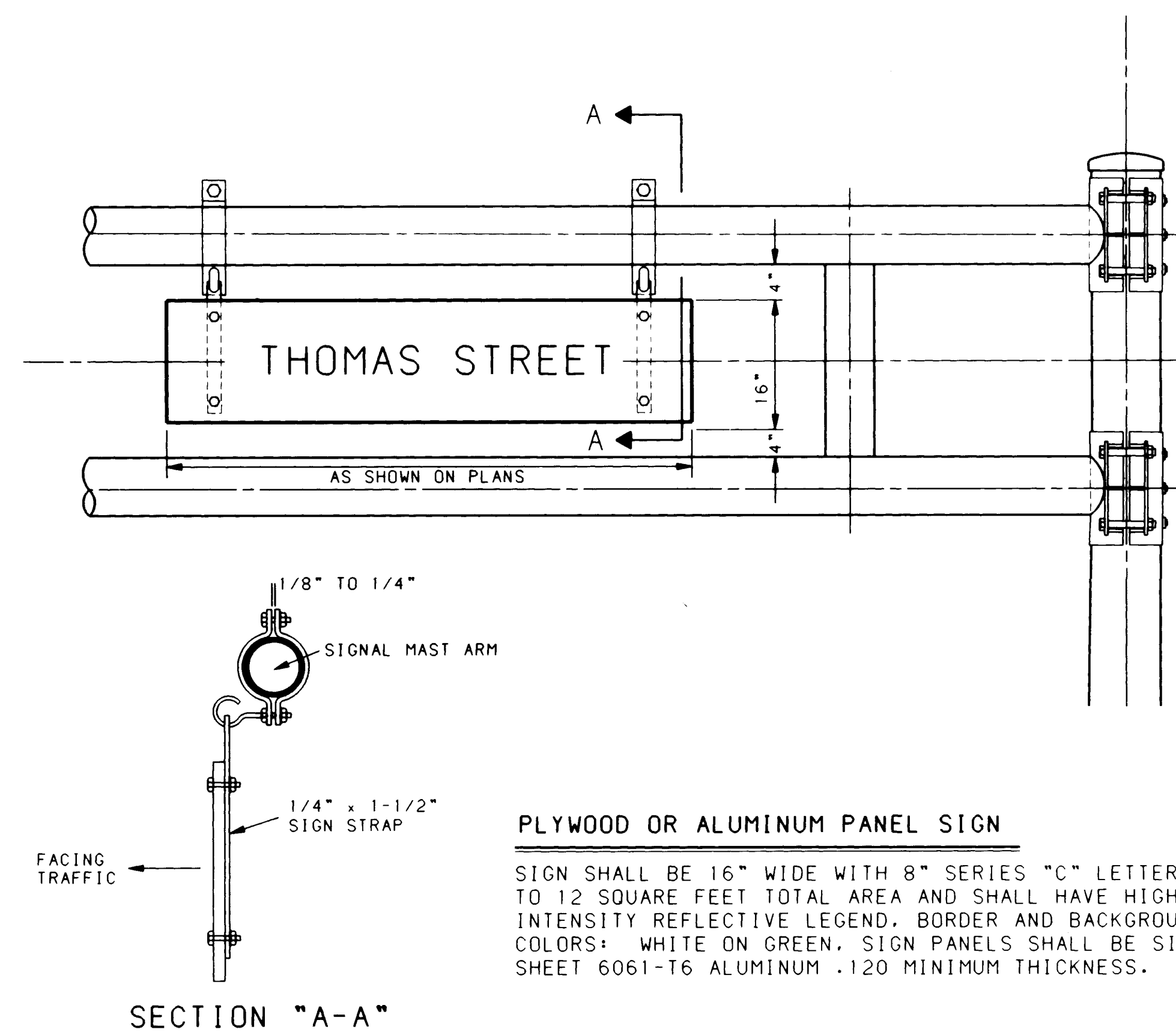
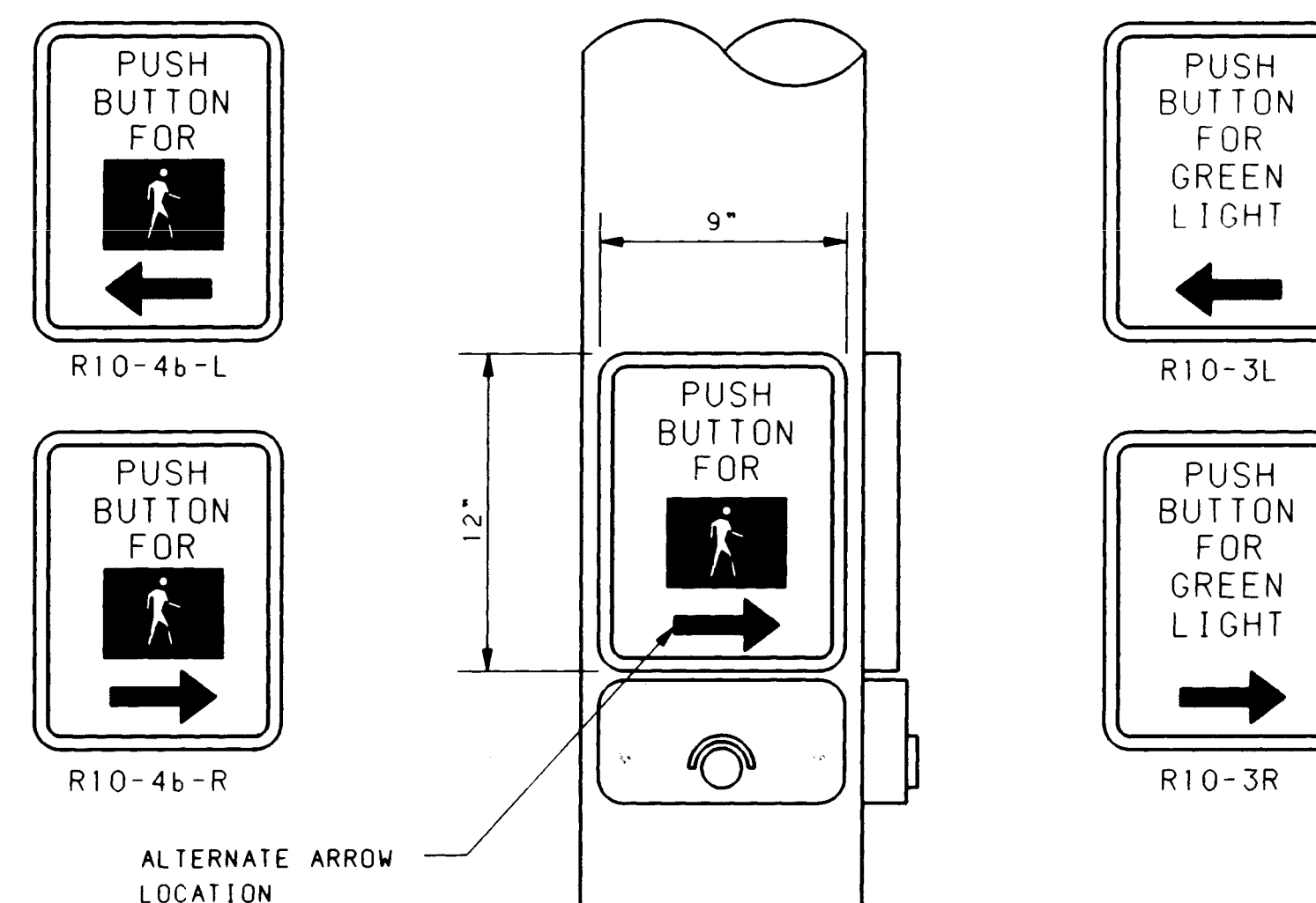
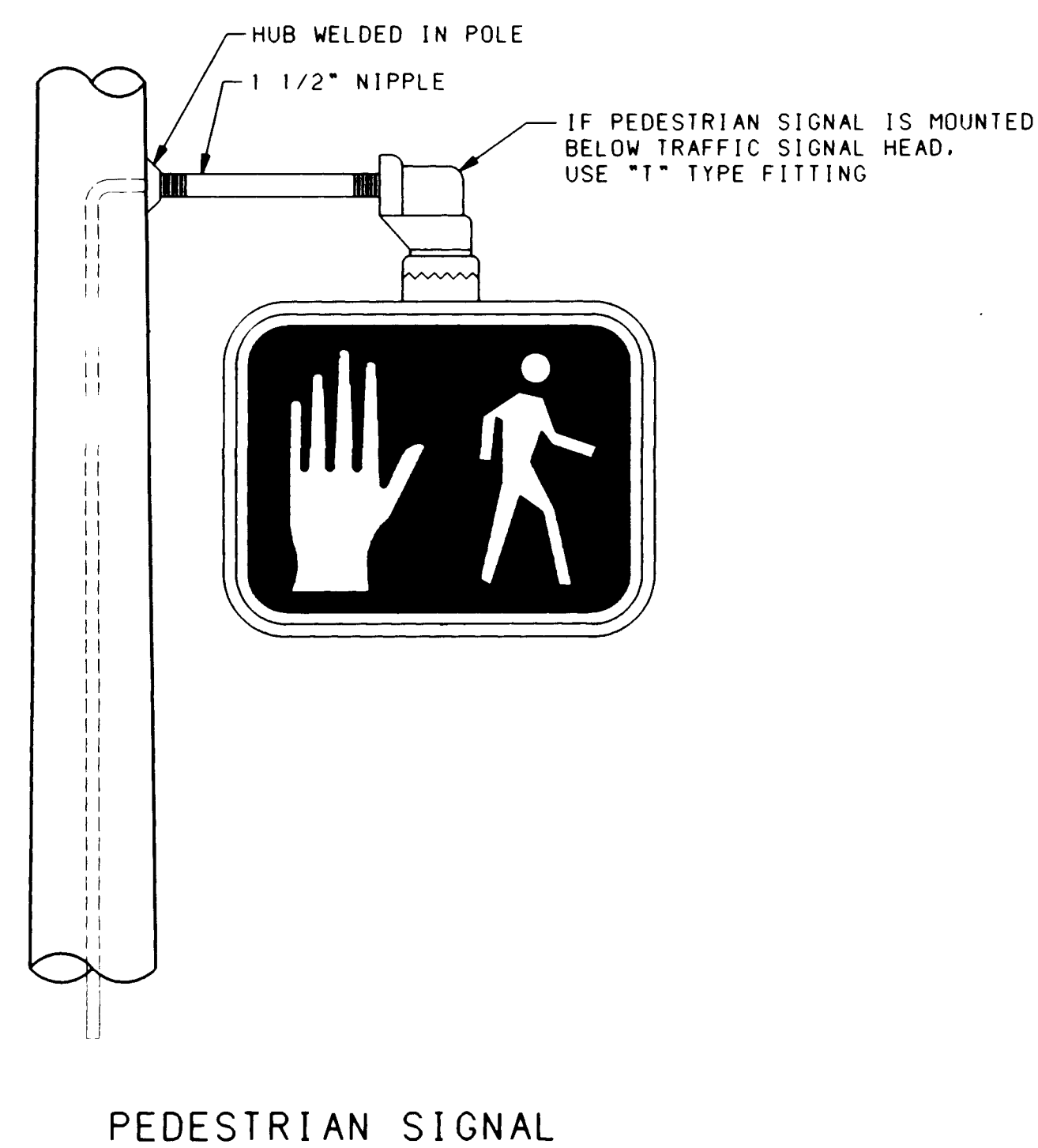
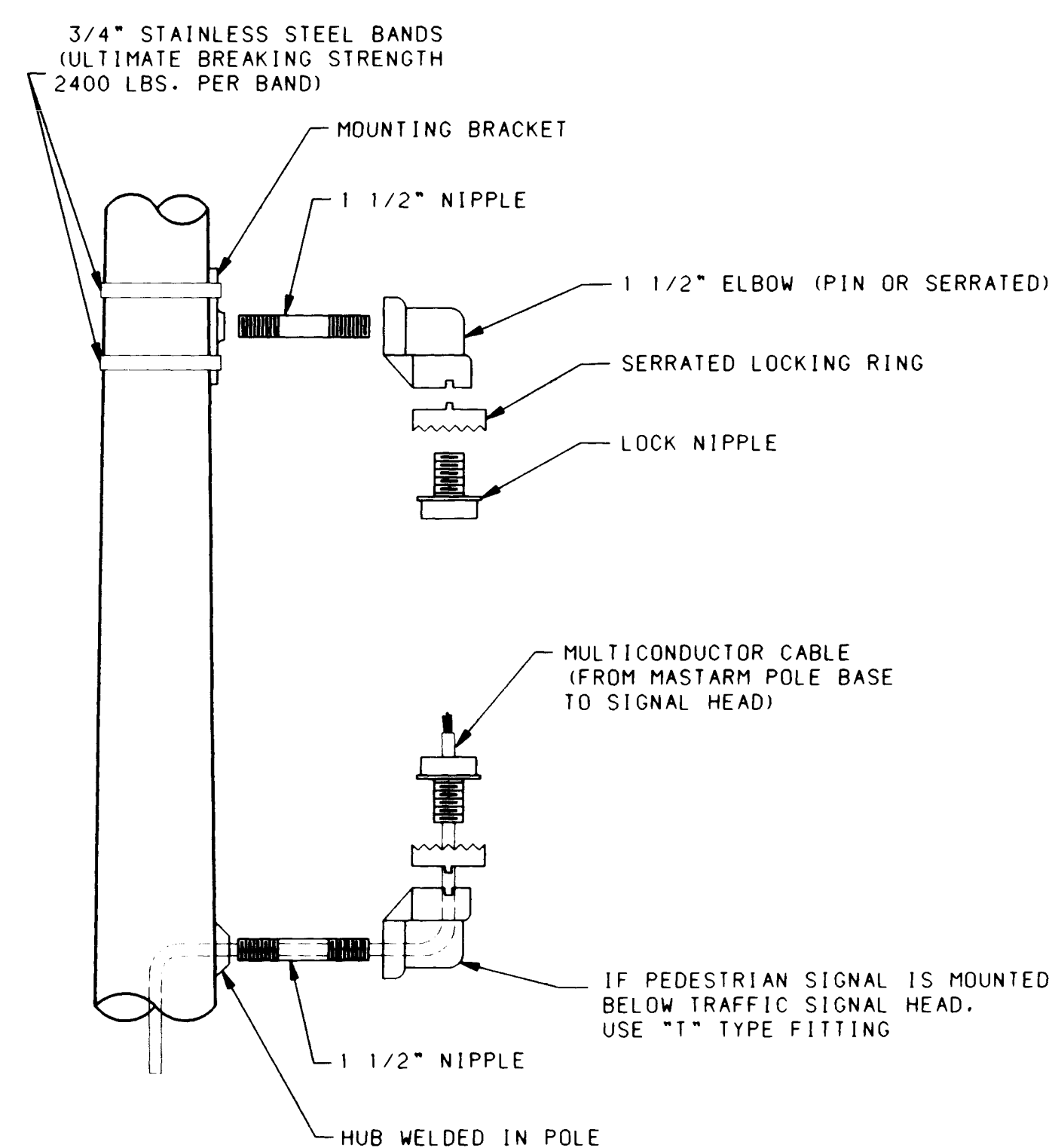
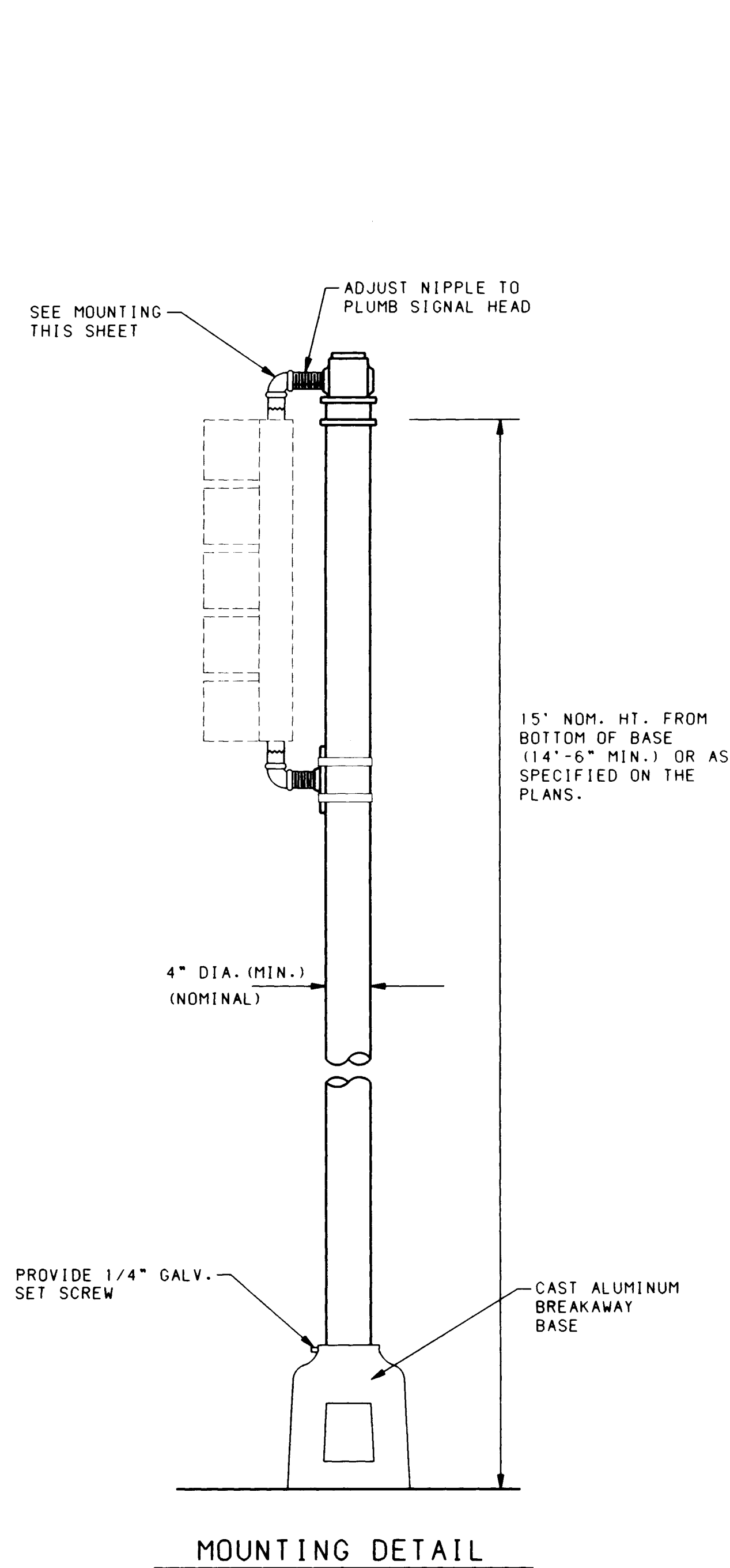
RECORD DRAWINGS
DATE 4-1-91

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: TYPE II STANDARDS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ORC CHAIRMAN	R. W. Kane	2/15/90	WATER	R. W. Kane	2-6-90
TRANSPORTATION	R. W. Kane	2-14-90	WASTE WATER	R. W. Kane	2-6-90
HYDROLOGY	R. W. Kane	2-14-90			

DRAWING NO. 3971 MAP NO. K-15, K-16, K-17 SHEET 19 OF 27

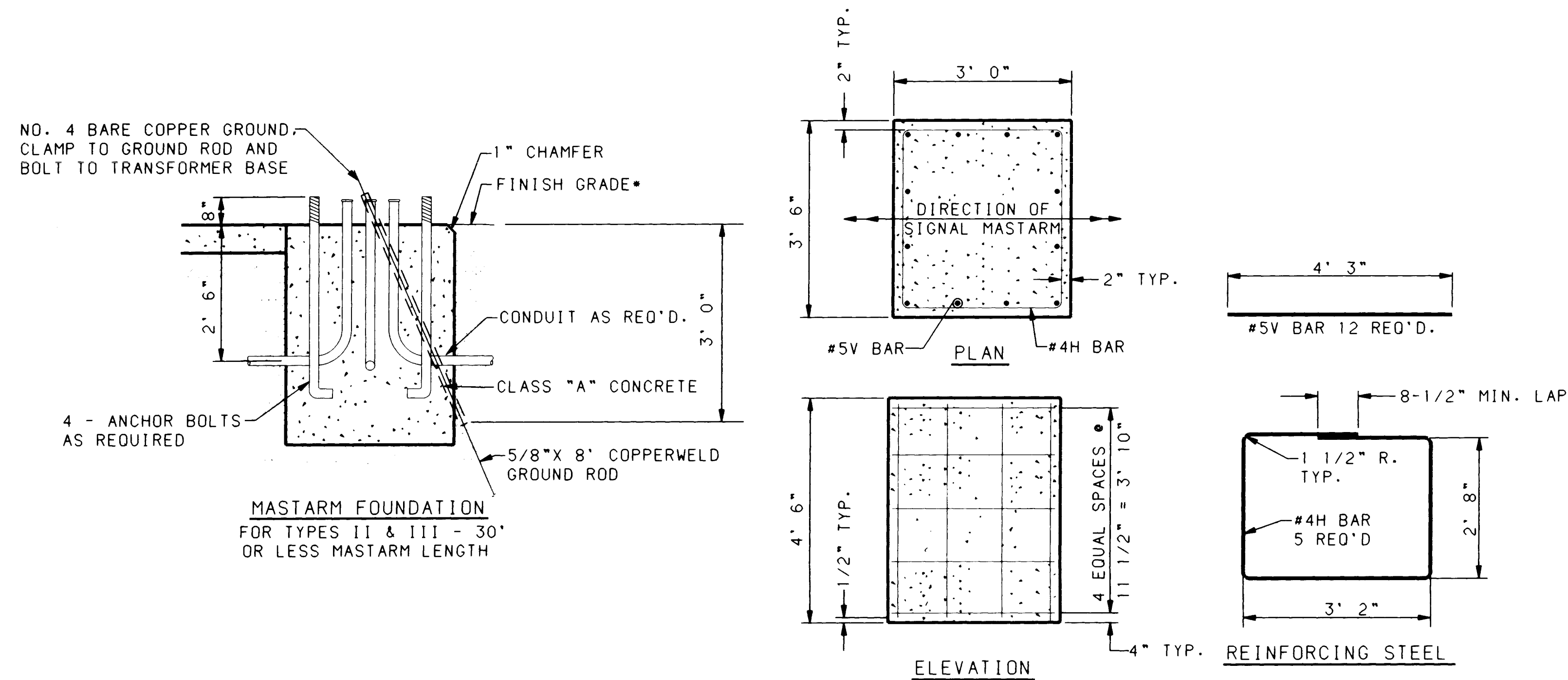


PLYWOOD OR ALUMINUM PANEL SIGN

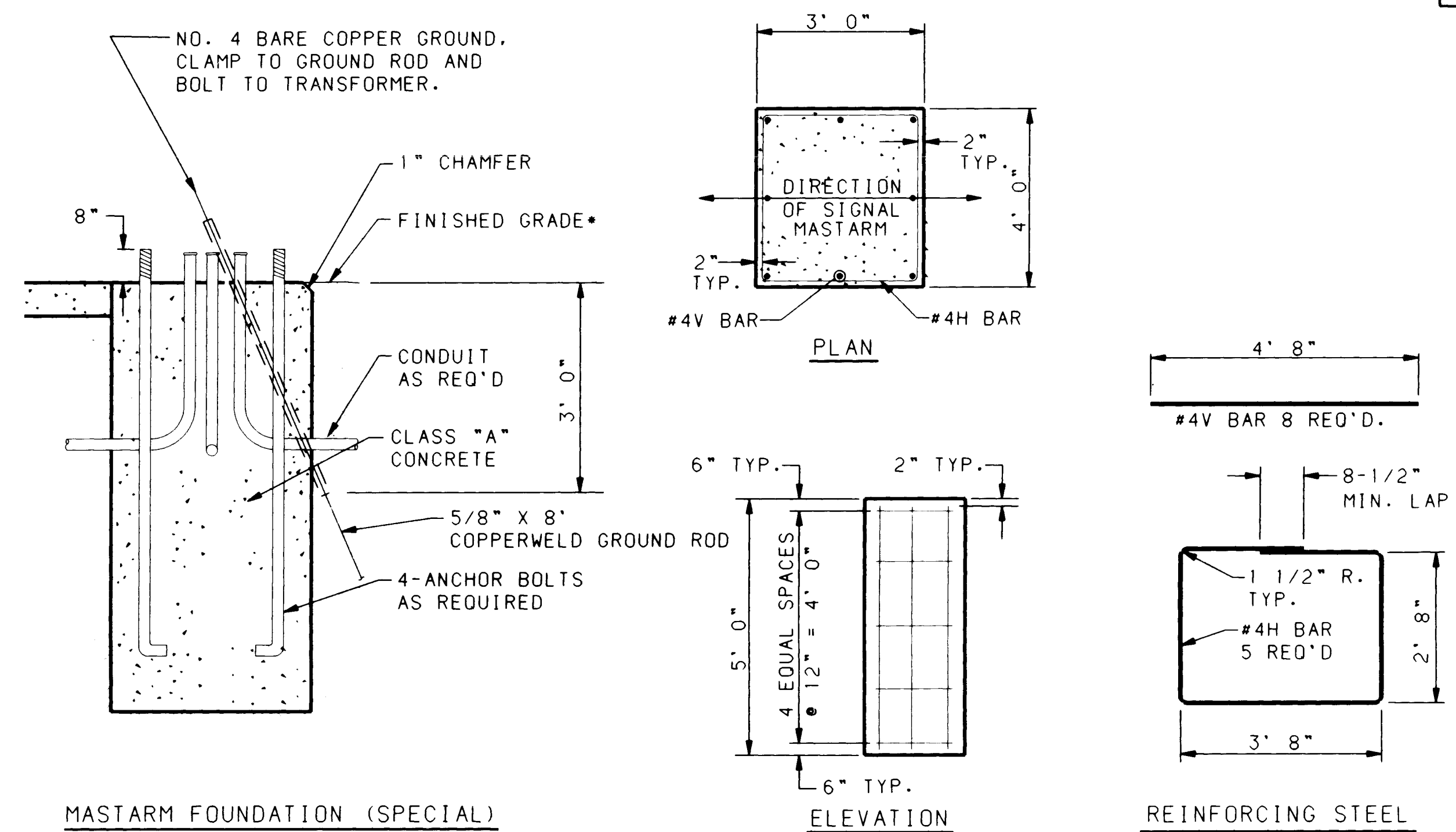
SIGN SHALL BE 16" WIDE WITH 8" SERIES "C" LETTERS UP TO 12 SQUARE FEET TOTAL AREA AND SHALL HAVE HIGH INTENSITY REFLECTIVE LEGEND, BORDER AND BACKGROUND. COLORS: WHITE ON GREEN. SIGN PANELS SHALL BE SINGLE SHEET 6061-T6 ALUMINUM .120 MINIMUM THICKNESS.

C of A PWD Maps & Records										
1	2	3	4	5	6	7	8	9	10	11
2	6		3	9	7	1	2	0	9	1

		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: TYPE I POLES & PEDESTRIAN SIGNAL DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2/15/90	WATER	<i>R.W. Kane</i>	2-6-90
TRANSPORTATION	<i>[Signature]</i>	2/14/90	WASTE WATER	<i>R.W. Kane</i>	2-6-90
HYDROLOGY	<i>[Signature]</i>	2/6/90			
DRAWING NO. 3971		MAP NO. K-15,K-16,K-17		SHEET 20 OF 27	



MASTARM FOUNDATION DETAILS-TYPE II & TYPE III STANDARDS
TYPES II & III - 30' OR LESS MASTARM LENGTH



MASTARM FOUNDATION (SPECIAL)

MASTARM FOUNDATION (SPECIAL) DETAILS-TYPE II & TYPE III STANDARDS
TYPES II & III - GREATER THAN 30' MASTARM LENGTH

NOTES

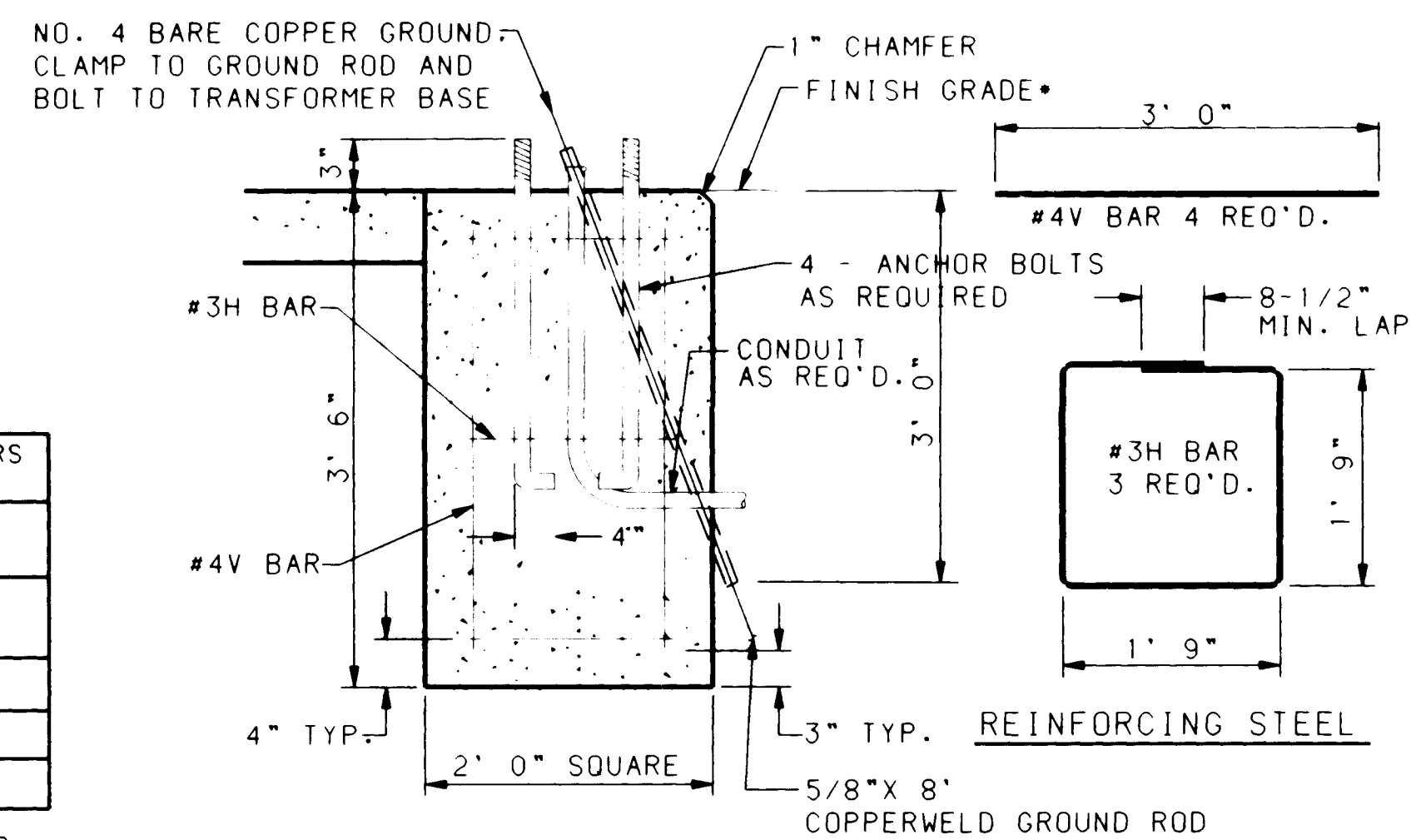
- ALL COPPERWELD GROUND RODS SHALL BE 5/8" ϕ X 8'-0" AND SHALL BE WRAPPED IN THREE (3) LAYERS OF PIPE INSULATION TAPE OR PLACED THROUGH A 1" ϕ PVC CONDUIT.

ESTIMATED QUANTITIES (FOR CONTRACTORS INFORMATION ONLY)		
FOUNDATION	CLASS "A" CONC. CUBIC YARDS	REINFORCING BARS POUNDS
MASTARM - TYPES II & III (SPECIAL) (FOR 35 FOOT MASTARM)	2.22	72
MASTARM - TYPES II & III (FOR 30 FOOT OR LESS MASTARM)	1.75	94
PEDESTAL POLE TYPE I	0.52	17
CONTROLLER CABINET TYPE PAR	1.26	--
CONTROLLER CABINET TYPE G&M	0.78	--

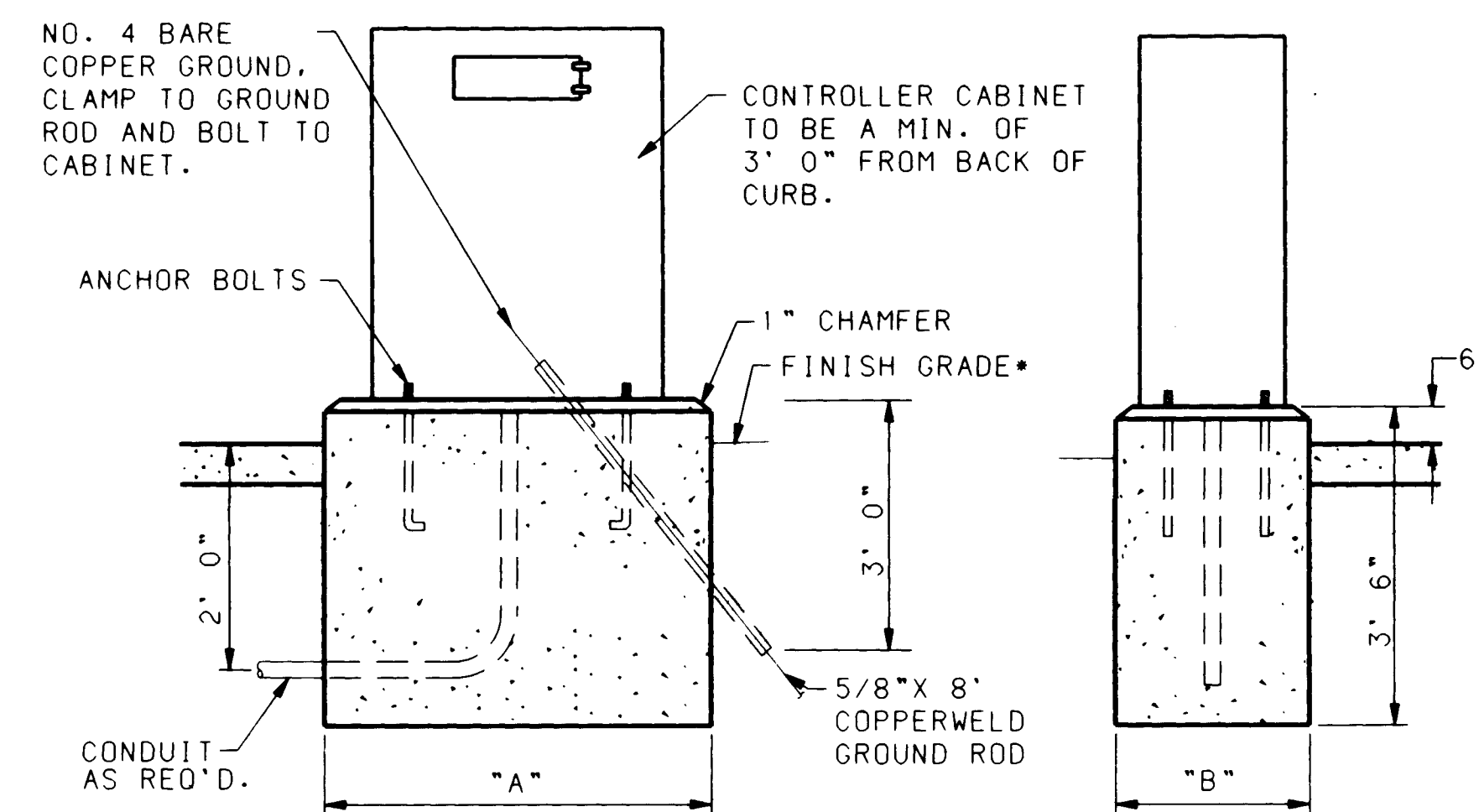
ALTERNATE DESIGNS FOR STANDARD FOUNDATIONS, TO BE SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL.

NOTE: ALL SIGNAL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS AS SHOWN WHICH SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF FOUNDATION. NO PRICE OR PAYMENT SHALL BE MADE THEREFOR.

- FINISHED GRADE FOR ALL FOUNDATIONS TO BE DETERMINED BY THE PROJECT ENGINEER. THE TOP OF STANDARD FOUNDATIONS SHALL BE FLUSH WITH ADJACENT SIDEWALK OR PAVED AREAS.



PEDESTAL FOUNDATION DETAILS-TYPE I STANDARD



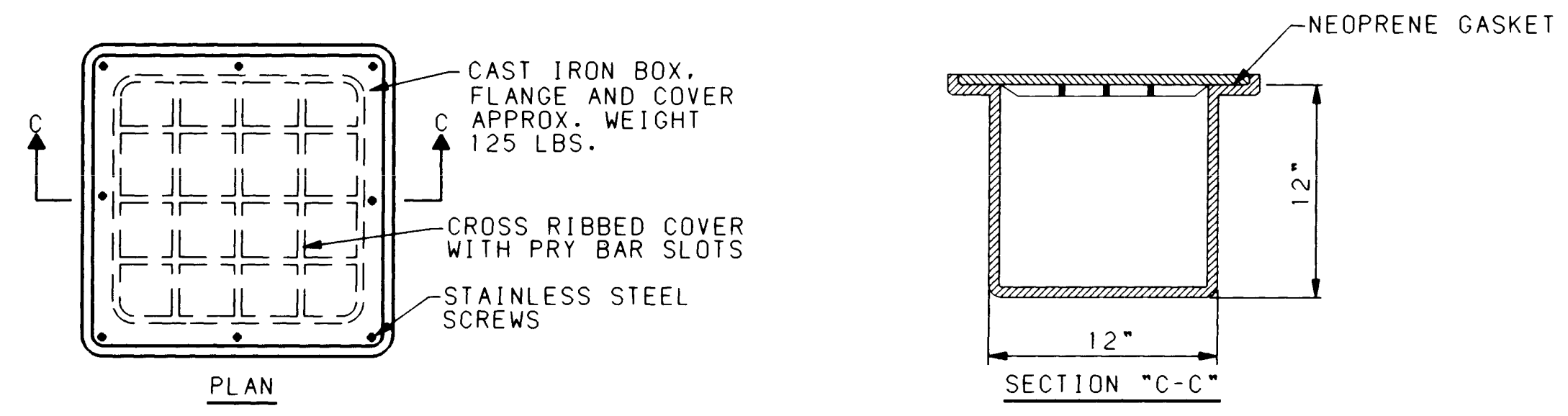
CONTROL CABINET FOUNDATION DETAIL

IN THE EVENT THE SUPPLIED CABINET WOULD OVERLAP THE SIDES OF ABOVE FOUNDATION, THE FOUNDATION SHALL BE INCREASED IN SIZE AS DIRECTED BY THE ENGINEER.

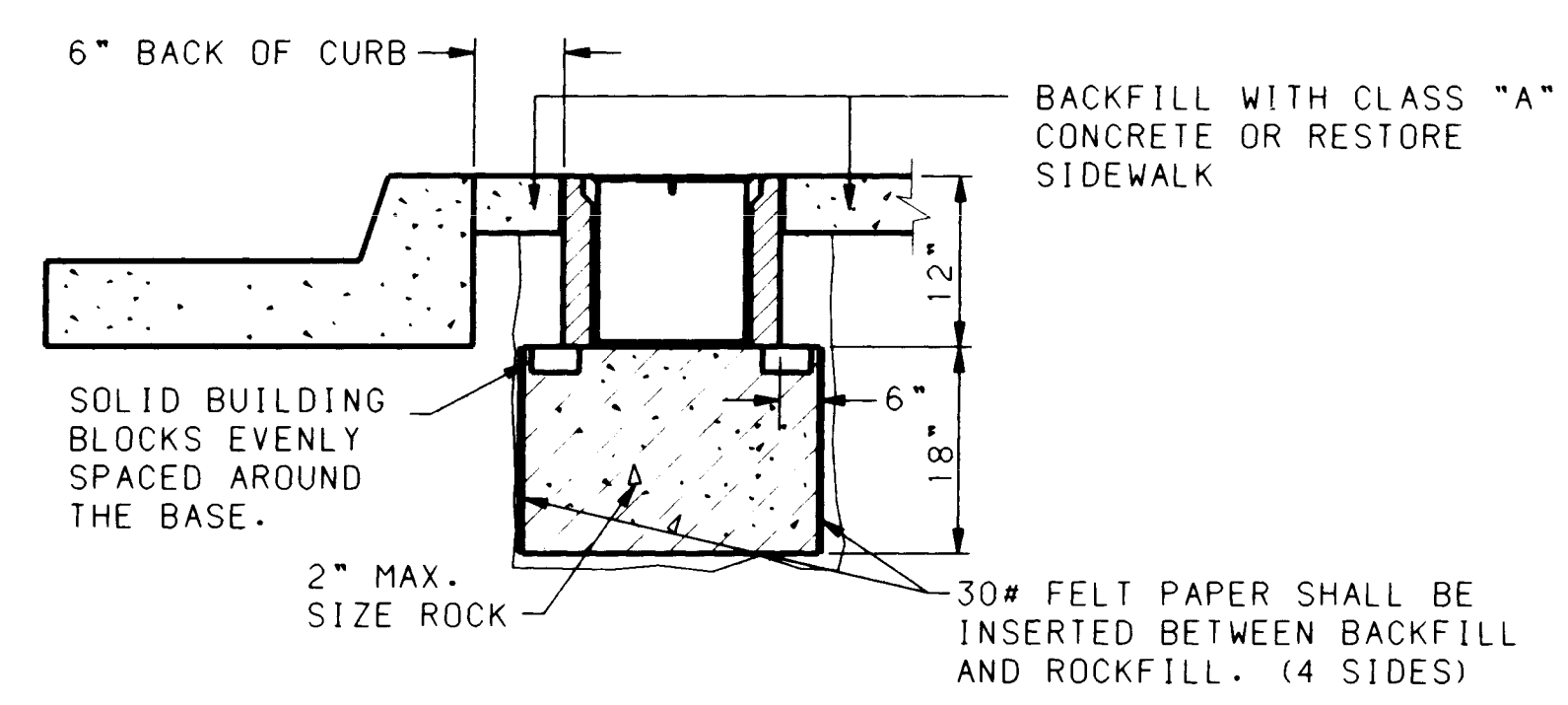
CABINET TYPE	"A"	"B"
P & R	4'-2"	2'-4"
G & M	3'-0"	2'-0"

C of A PWD Maps & Records											
1	2	3	4	5	6	7	8	9	10	11	12
26	3	9	7	1	2	1	9	1			

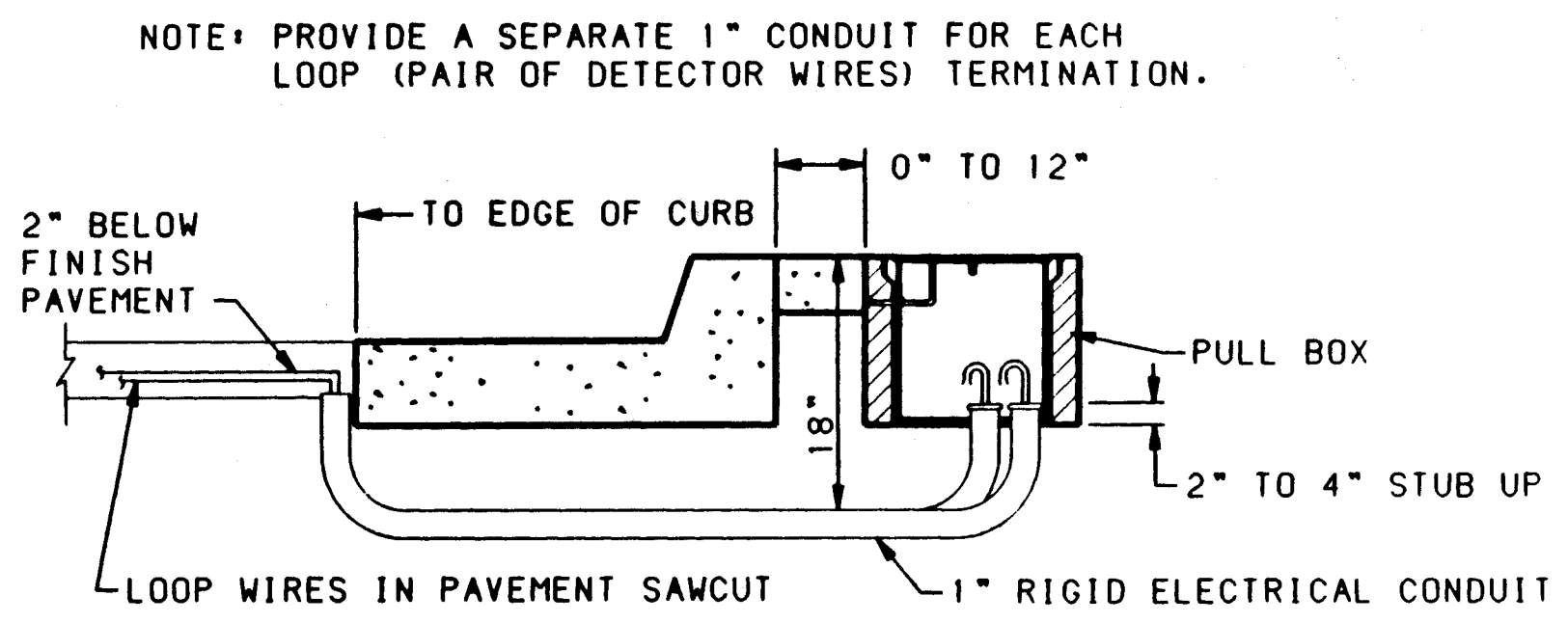
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TRAFFIC SIGNAL FOUNDATION DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	R. W. Kana	2-6-90	WATER	R. W. Kana	2-6-90
TRANSPORTATION	R. W. Kana	2-6-90	WASTE WATER	R. W. Kana	2-6-90
HYDROLOGY					
DRAWING NO.	3971	MAP NO.	K-15, K-16, K-17	SHEET	21 OF 27



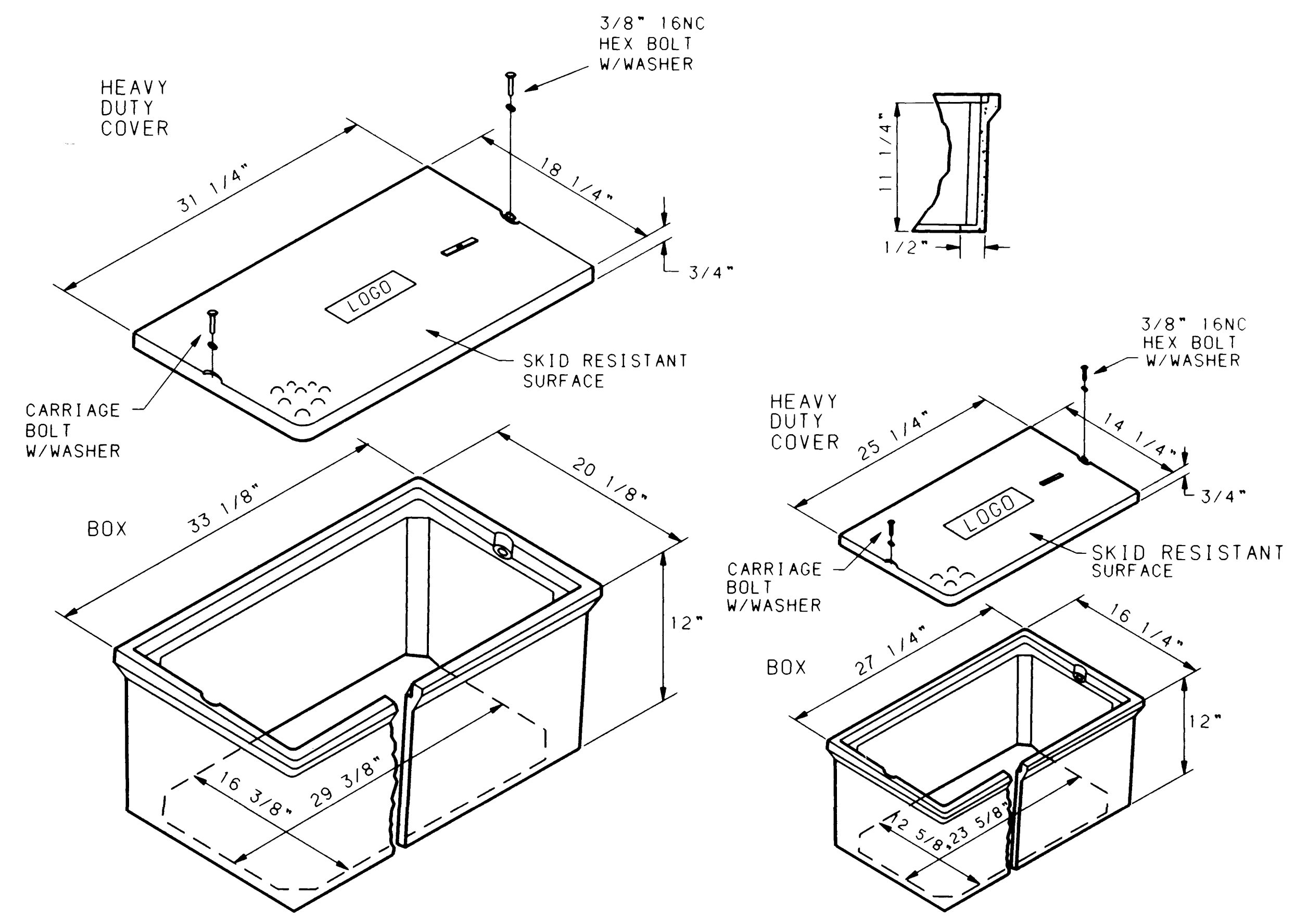
METAL PULL BOX



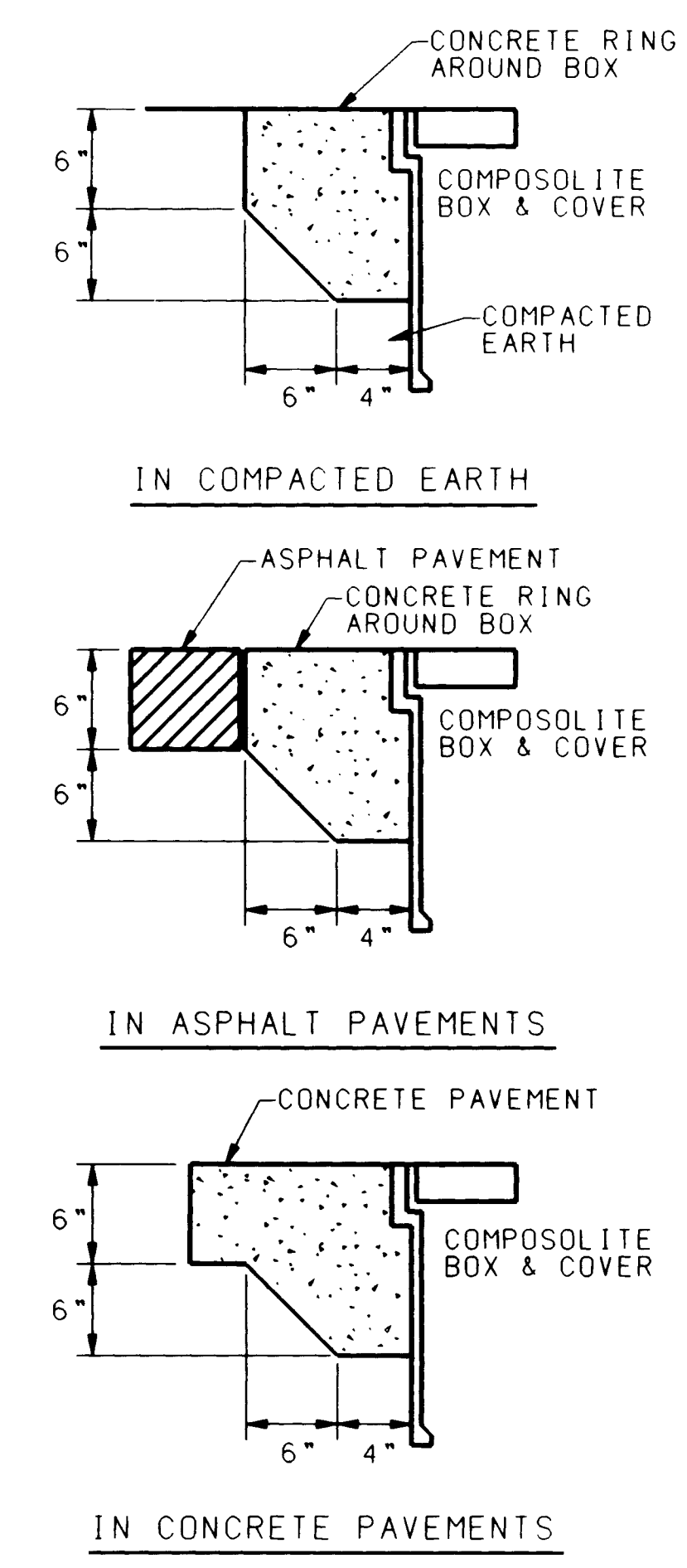
TYPICAL PULLBOX INSTALLATION
SEE DETAIL "A" BELOW



LOOP WIRE TERMINATION DETAIL
NOTE: GROUND LOOP LEAD - IN SHIELD AT CONTROLLER ONLY.



PULL BOX DETAILS



CONCRETE COLLAR DETAIL FOR PULL BOXES

NOTE: THE CONCRETE FOR THE PULL BOXES WILL BE PAID FOR UNDER ITEM NO. 710010 AND NO OTHER MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR

DETAIL "A"

- NOTES FOR REINFORCED POLYMER MORTAR PULL BOX
- SERVICE LOAD FOR (HEAVY DUTY COVERS) - 15,000 LBS. OVER A 10" SQUARE (150 PSI).
 - MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH - 11,000 PSI, TENSILE STRENGTH - 1700 PSI, FLEXURAL STRENGTH - 7500 PSI.
 - ALL PULL BOX COVERS SHALL BE STEEL OR REINFORCED POLYMER MORTAR. NO CONCRETE COVERS WILL BE ACCEPTABLE. PULL BOX TYPE SHALL BE APPROVED BY THE PROJECT MANAGER.
 - THE DIMENSIONS OF THE PULL BOXES SHOWN ARE MINIMUM DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER

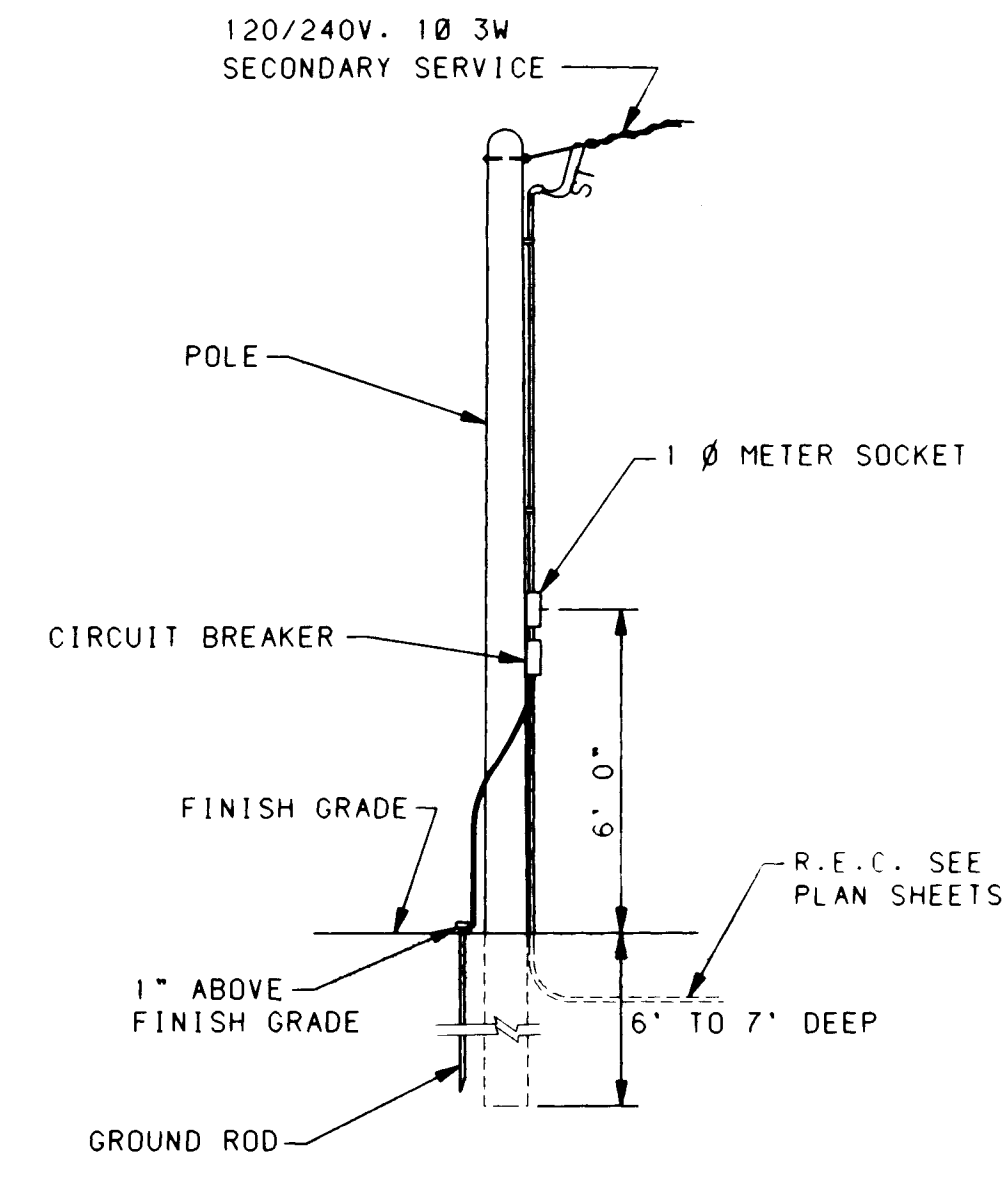
RECORD DRAWINGS
DATE 4-1-91

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SIGNAL & LIGHTING PULL BOX DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	R.W. Kane	2/5/90	WATER	R.W. Kane	2-6-90
TRANSPORTATION	R.W. Kane	2-6-90	WASTE WATER	R.W. Kane	2-6-90
HYDROLOGY	R.W. Kane	2-6-90			

DRAWING NO. 3971 MAP NO. K-15,K-16,K-17 SHEET 22 OF 27



NOTE:

PROVIDE ONE 50A. 1P 120V. CIRCUIT FOR CONTROLLER SIGNALS AND ONE 50A. 1P CIRCUIT FOR DUPLEX CONVENIENCE OUTLET IN CONTROLLER. (USE A 15A FUSE TO PROTECT THIS CIRCUIT.)

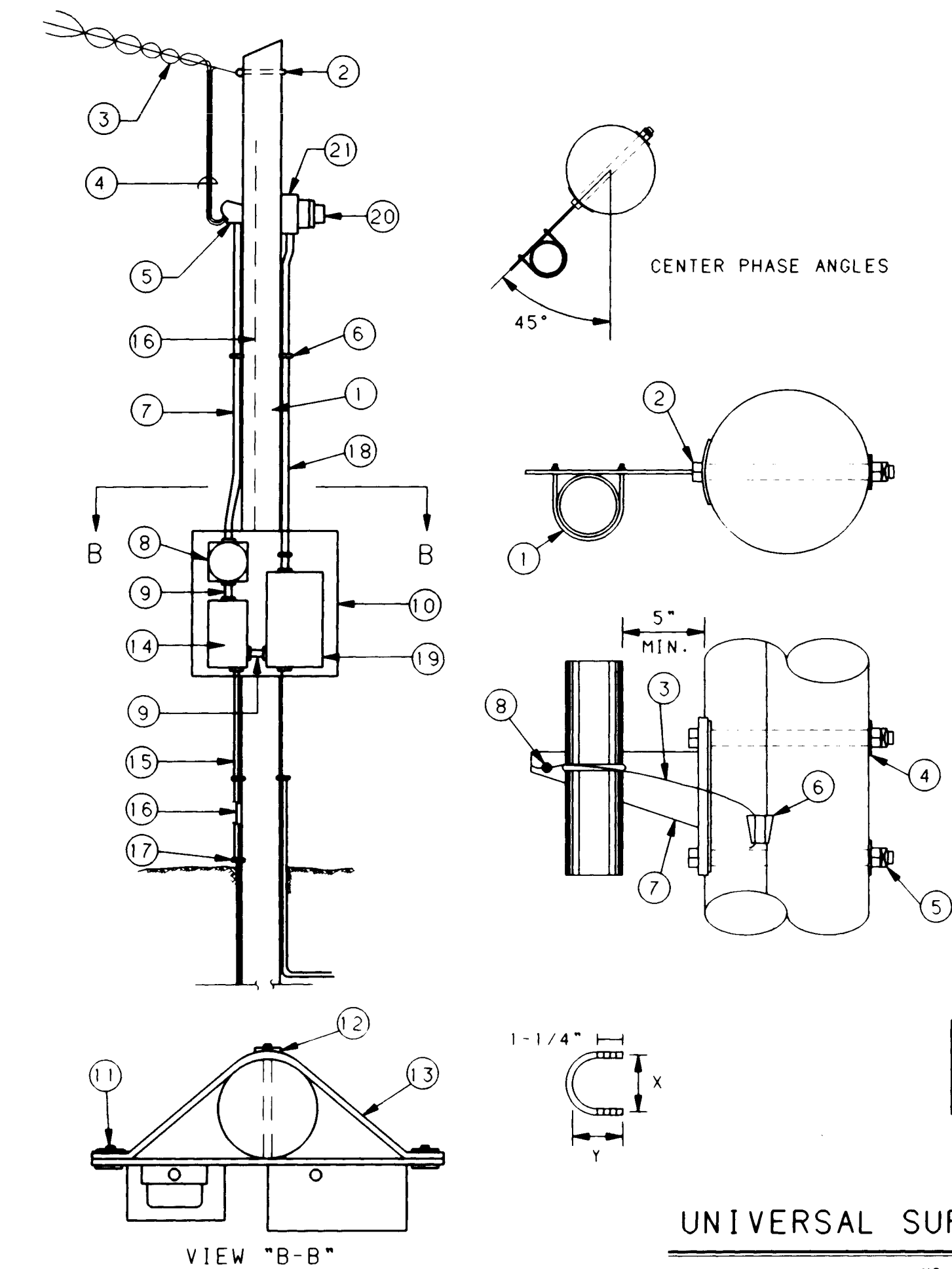
MATERIAL LIST

1	25' TREATED POLE
1	1" X 1" G.R.C. NIPPLE
1	SINGLE PHASE METER SOCKET
2	CIRCUIT BREAKERS 50A
1	1P IN RAIN TIGHT ENCLOSURE (N.E.M.A. 3R)
30'	1/2" NO. 6 THW BLACK
30'	1/2" NO. 6 THW WHITE
30'	1/2" NO. 6 THW RED
1	COPPERWELD 3/4" X 10'-0" GROUND ROD
1	GROUND ROD CLAMP
20'	1" GALV. RIGID CONDUIT (APPROX.)
1	5/8" EYEBOLT
1	1" WEATHERHEAD
10'	NO. 6 BARE COPPER GROUND WIRE
5'	1/2" GALV. RIGID CONDUIT

SERVICE POLE (SIGNAL)

NO SCALE

- NOTES:**
- ALL SIGNAL AND LIGHTING SERVICE DETAILS SHALL BE IN ACCORDANCE WITH THE PNM ELECTRIC SERVICE GUIDE, 1989 EDITION.
 - BID ITEM FOR SERVICE POLE (SIGNAL) FOR UNDERGROUND SERVICE INCLUDES UNIVERSAL SUPPORT BRACKETS AND SINGLE PHASE PEDESTAL METERING.



MATERIAL LIST

1	WOOD POLE FULLY TREATED - 30'-5"
1	EYE BOLT 5/8" Ø
3	3 WIRE - 120/240 VOLT 1Ø SECONDARY
60'	NO. 6 WIRE THW IDENTIFY PHASES
1	1" SERVICE ENTRANCE WEATHERHEAD
1	CONDUIT CLAMPS
15'	1" GALVANIZED RIGID STEEL CONDUIT
1	METER SOCKET 1Ø
1	NIPPLES
1	TREATED PLYWOOD BACKBOARD 3/4" X 36" X 36"
4	1/4" GALVANIZED BOLT, NUT AND WASHER
2	5/8" BOLT THROUGH POLE, BOARD AND STRAP
2	1" X 1/8" GALVANIZED STEEL STRAP
1	AMP 2P. RAIN TIGHT MULTI-BREAKER
6'	1/2" GALVANIZED RIGID STEEL CONDUIT
10'	NO. 6 AWG BARE SOLID WIRE
1	3/4" Ø X 10'-0" COPPERWELD GROUND ROD AND CLAMP
15'	3/4" GALVANIZED RIGID STEEL CONDUIT - 3 NO. 12 THW
1	AMP 2P. LIGHTING CONTACTOR R.T. 240 VOLT
1	PHOTO-ELECTRIC CONTROLLER, FACING NORTH 16' ABOVE GRADE - 240 VOLT 1Ø
1	WEATHERPROOF JUNCTION BOX

SERVICE POLE (LIGHTING)

NO SCALE

MATERIAL LIST

1	1	U BOLT
2	2	5/8" MACHINE BOLT
3	3	#4 SOL CU WIRE
4	2	2-1/4" SQUARE WASHER
5	2	5/8" MF LOCKNUT
6	1	LINE TAP
7	1	SUPPORT BRACKET
8	1	GROUNDING LUG

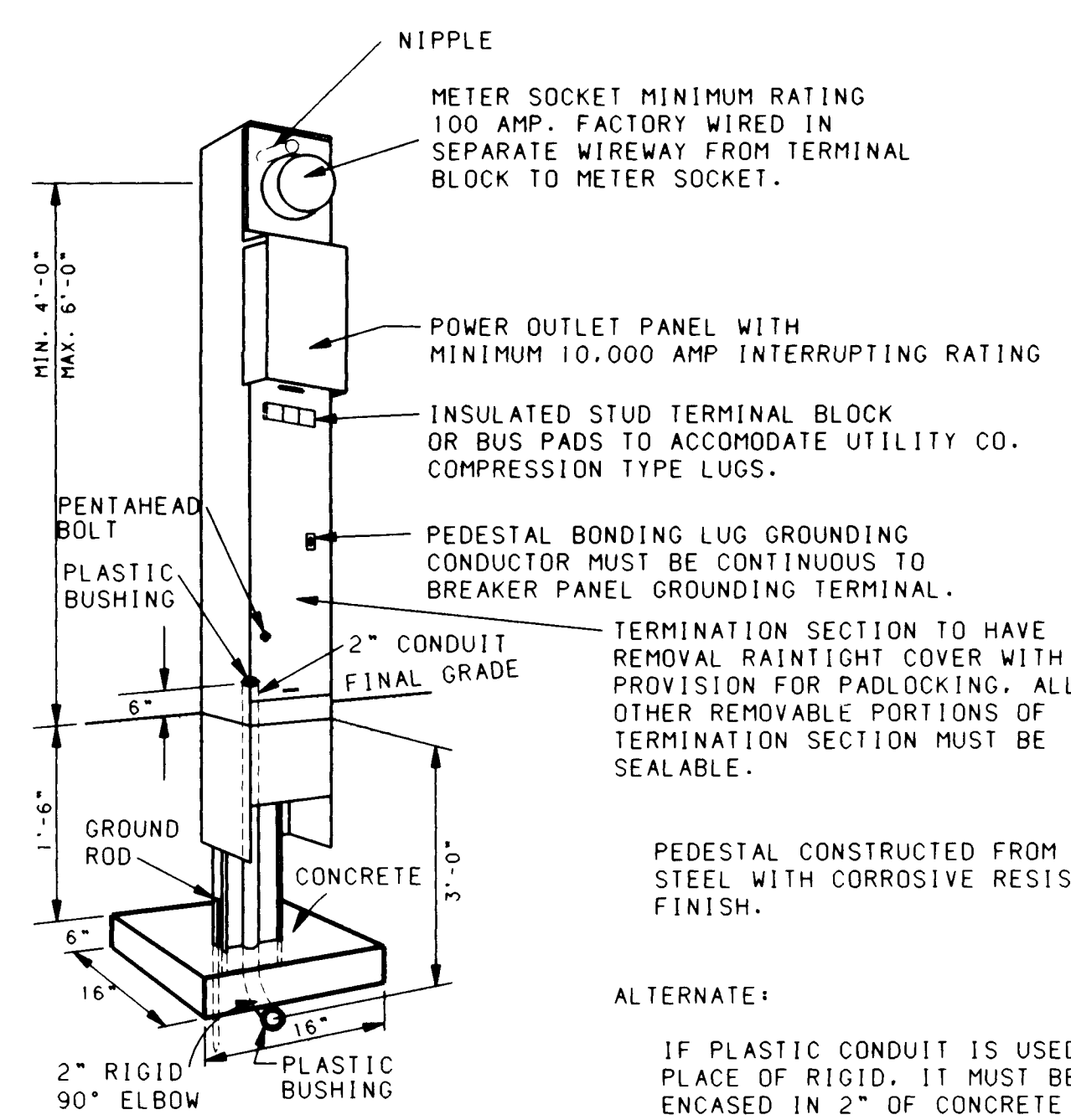
NOTES

- BRACKET TO BE FASTENED TO POLE WITH 5/8" GALVANIZED MACHINE BOLTS.
- BRACKET SUITABLE FOR TWO 2", OR ONE 4" CONDUIT.
- TWO HOLE STRAPS ATTACHED AT 30" INTERVALS WITH 2" LAG SCREWS MAY BE USED INSTEAD OF THE SUPPORT BRACKET WHEN THE CONDUIT IS 1" OR LESS. A MAXIMUM OF TWO CONDUITS MAY BE STRAPPED DIRECTLY TO THE POLE.
- NO BRACKETS REQUIRED IF CONDUIT IS 1" OR LESS.

SIZE CONDUIT	X	Y
2"	2-7/8"	3-5/8"
4"	5"	5-3/4"

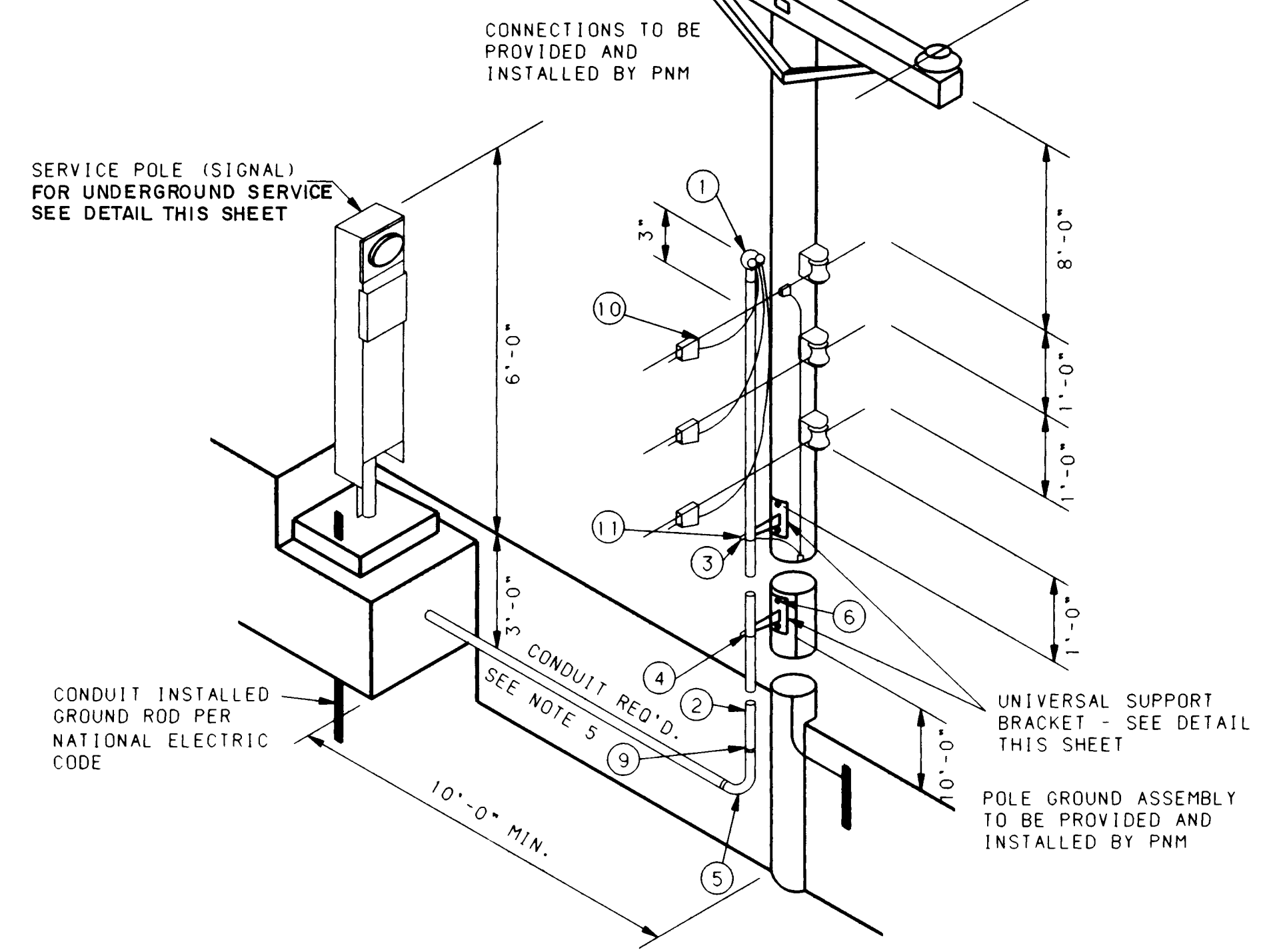
UNIVERSAL SUPPORT BRACKETS

NO SCALE



SERVICE POLE (SIGNAL) FOR UNDERGROUND SERVICE

NO SCALE



SINGLE PHASE PEDESTAL METERING NOTES

- WEATHERHEAD SHALL BE 3" ABOVE NEUTRAL.
- NO STANDOFF BRACKET REQUIRED IF CONDUIT IS 1" OR LESS. UP TO 2 CONDUITS 1" OR LESS MAY BE STRAPPED TO THE POLE.
- CONTACT PNM CUSTOMER SERVICES FOR POLE QUADRANT.
- ALL ABOVE-GRADE CONDUIT SHALL BE RIGID GALVANIZED OR IMC.
- ALL UNDERGROUND CONDUIT EXCEPT TYPE DB PVC, SCHEDULE 40 PVC, RIGID GALVANIZED OR IMC MUST BE CONCRETE ENCASED.
- RISE BRACKET ASSEMBLY MUST HAVE PROVISIONS FOR GROUNDING BY PNM.

MATERIAL LIST

1	2" CLAMP TYP WEATHER HD
30'	2" GALVANIZED CONDUIT
2	UNIVERSAL SUPPORT BRACKET
2	2" PIPE STRAP KIT
1	2" GALVANIZED ELBOW
4	5/8" X MACHINE BOLT
4	5/8" LOCKNUT
4	2-1/4" SQUARE WASHER
1	2" GALVANIZED COUPLING
3	LINE TAP
2	#10-#2 GROUND LUG
1	GROUND ASSEMBLY

SINGLE PHASE PEDESTAL METERING

NO SCALE

C of A PWD Maps & Records

1	2	3	4	5	6	7	8	9	10	11	12
26	39	71	23	91	11						

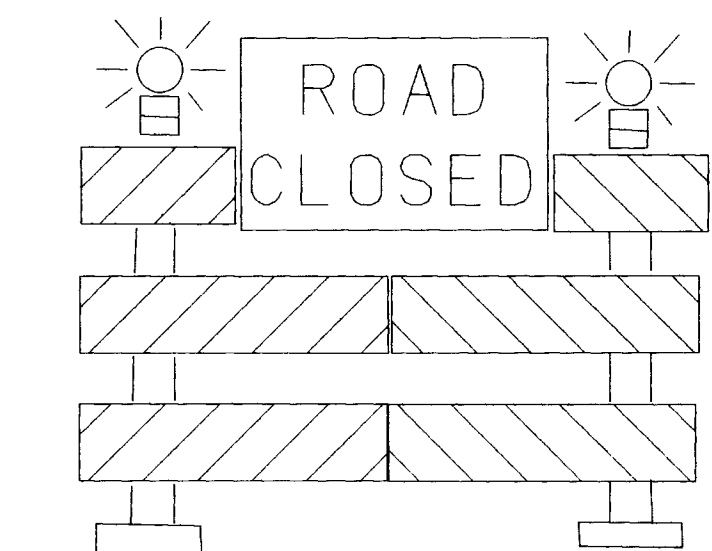
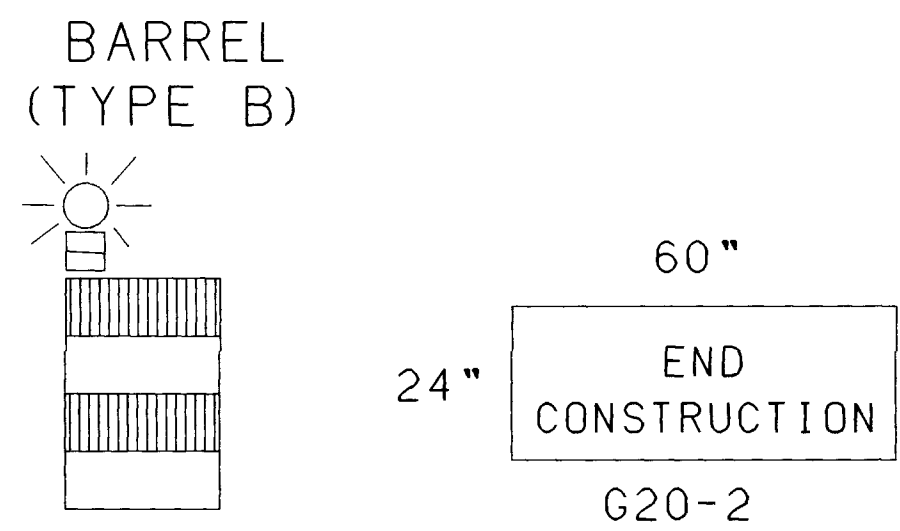
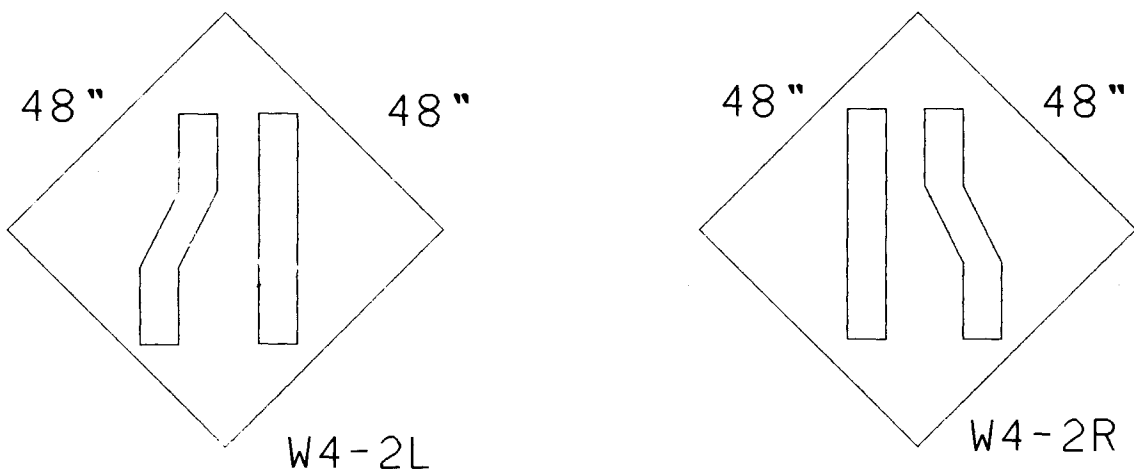
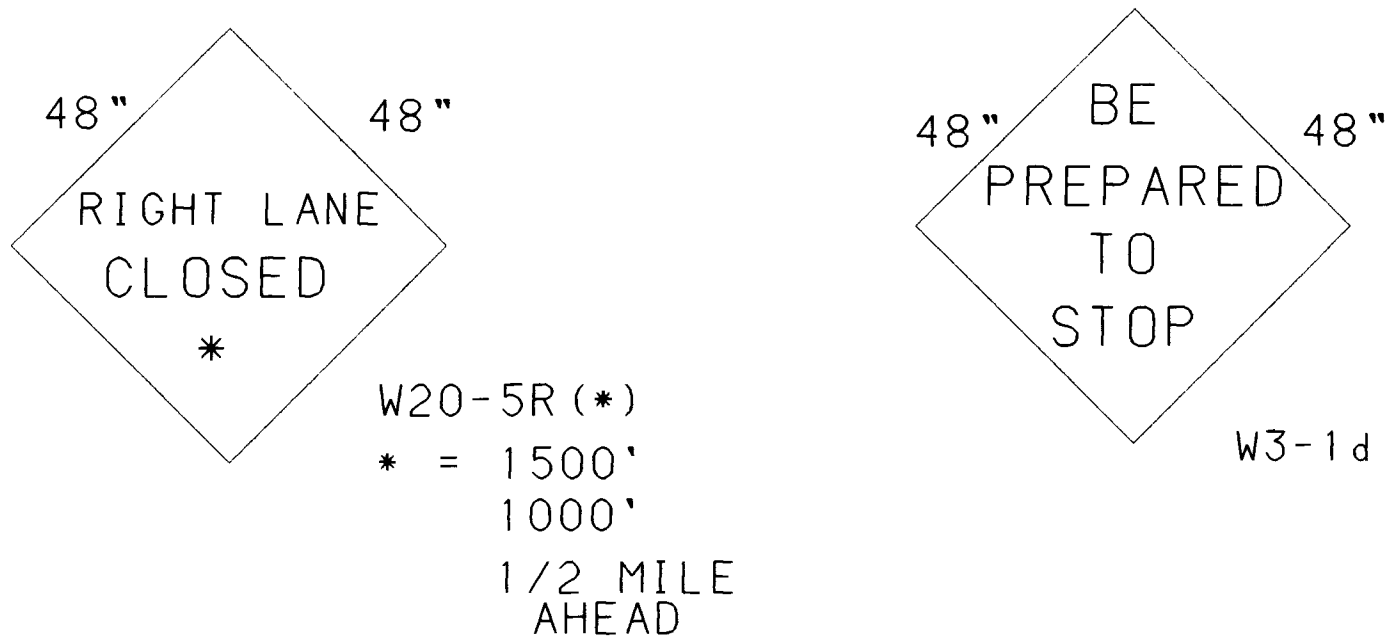
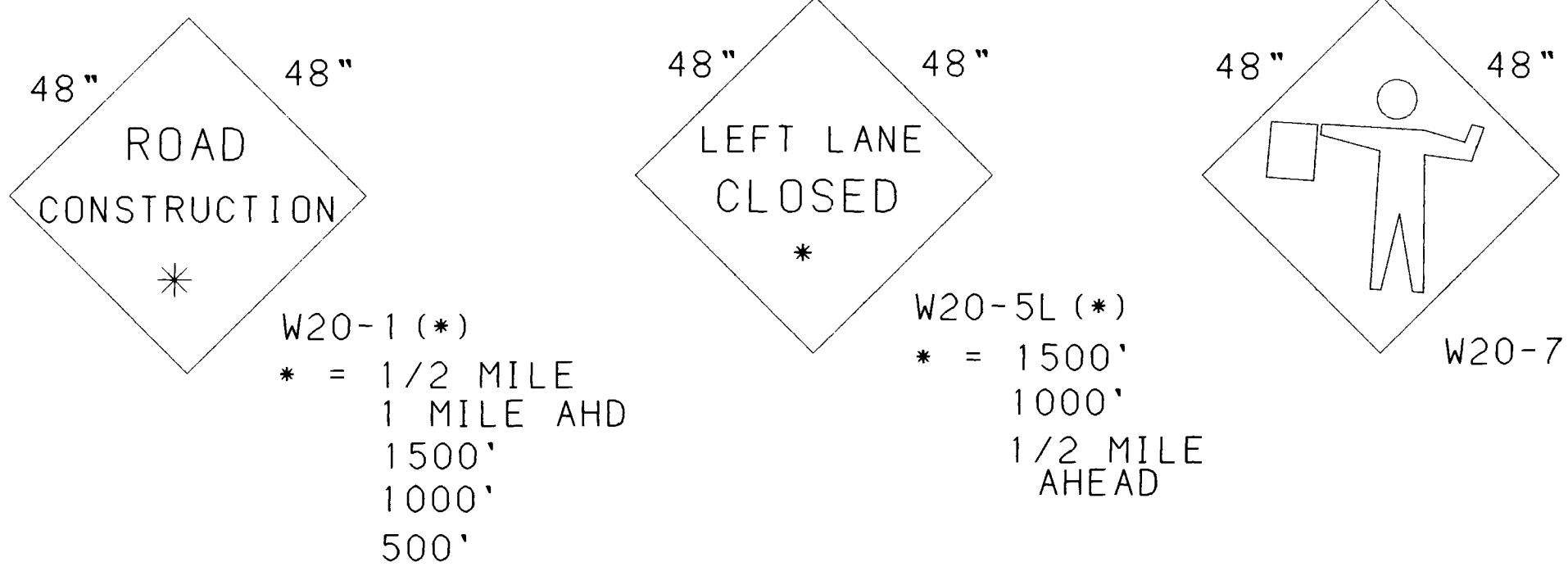


RECORD DRAWINGS

DATE 4-1-91

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SIGNAL & LIGHTING SERVICE DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R.W. Kane	2-6-90	WATER	R.W. Kane	2-6-90
TRANSPORTATION	R.W. Kane	2-6-90	WASTE WATER	R.W. Kane	2-6-90
HYDROLOGY	R.W. Kane	2-6-90			
DRAWING NO.	3971	MAP NO.	K-15, K-16, K-17	SHEET	23 OF 27

S I G N F A C E D E T A I L S



TYPE III BARRICADE
(8 FT.)

NOTES:

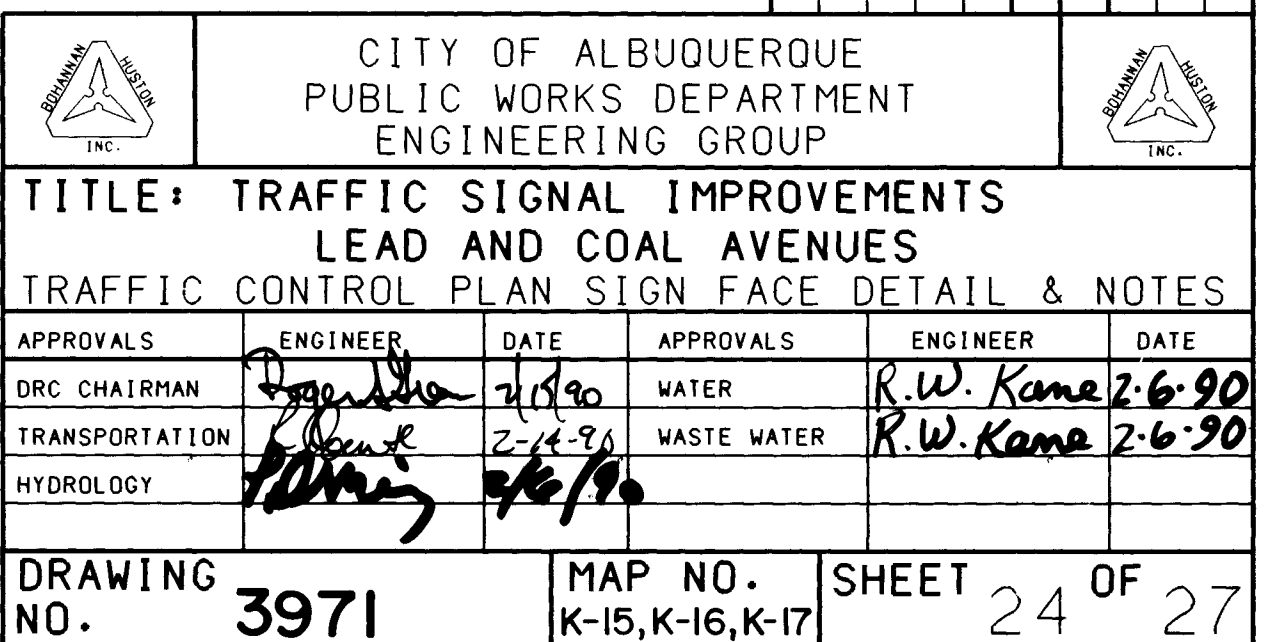
1. ALL TRAFFIC CONTROL PLANS AND QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE. THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED. PLACING, RELOCATING, AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE PROJECT MANAGER ARE TO BE INCIDENTAL TO THE UNIT BID PRICE.
2. ALL TRAFFIC CONTROL DEVICES FOR DETOURS SHALL COMPLY WITH CHAPTER VI OF THE 1978 EDITION MUTCD AND CURRENT REVISIONS.
3. ALL CONSTRUCTION SIGNING SHALL BE BLACK ON REFLECTIVE ORANGE UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION BARRICADES AND CHANNELIZATION DEVICES SHALL BE ORANGE ON WHITE REFLECTORIZED UNLESS OTHERWISE SPECIFIED.
4. TYPE I AND TYPE III BARRICADES SHALL BE ORANGE ON WHITE REFLECTORIZED.
5. FLAGGING SHALL BE PROVIDED FOR SAFETY AND/OR AS DIRECTED BY THE PROJECT MANAGER. FLAGGERS SHALL USE STOP/SLOW PADDLES (18"x18" MIN.) IN ACCORDANCE WITH THE MUTCD.
6. CHANNELIZATION DEVICE BARRELS SHALL BE ORANGE ON WHITE REFLECTORIZED. TYPE "B" SHALL BE EQUIPPED WITH BEACON.
7. THE PROVISIONS AS INCLUDED IN THE PLANS AND SPECIFICATIONS FOR HANDLING AND CONTROLLING TRAFFIC DURING CONSTRUCTION OF THE PROJECT MAY BE CHANGED BY THE PROJECT ENGINEER, IF, BECAUSE OF FIELD CONDITION AS ACTUALLY ENCOUNTERED, SUCH CHANGES WILL BE MADE BY WRITTEN INSTRUCTION TO THE CONTRACTOR, AND SHALL BE CONSIDERED AN AMENDMENT TO THE PLANS AND SPECIFICATION AS OF THE DATE OF THE CHANGE.
8. THE CONTRACTOR SHALL SUBMIT ANY PROPOSED CHANGES IN THE TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER FOR APPROVAL.
9. NO PAYMENT WILL BE MADE FOR ANY ADDITIONAL COST RESULTING FROM APPROVED TRAFFIC CONTROL PLAN CHANGES REQUESTED BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PERSON ON SITE DURING WORKING HOURS AND ON CALL DURING NON WORKING HOURS TO INSPECT AND MAINTAIN PROJECT TRAFFIC CONTROL, OR AS DIRECTED BY THE PROJECT ENGINEER.
11. ALL NON-APPLICABLE SIGNING SHALL BE REMOVED OR COVERED COMPLETELY WITH AN OPAQUE NON-LIGHT TRANSMITTING MATERIAL.
12. EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (1979 EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.
13. ALL SIGNING ALONG LEAD AND COAL AVENUES SHALL BE DOUBLE INDICATED.

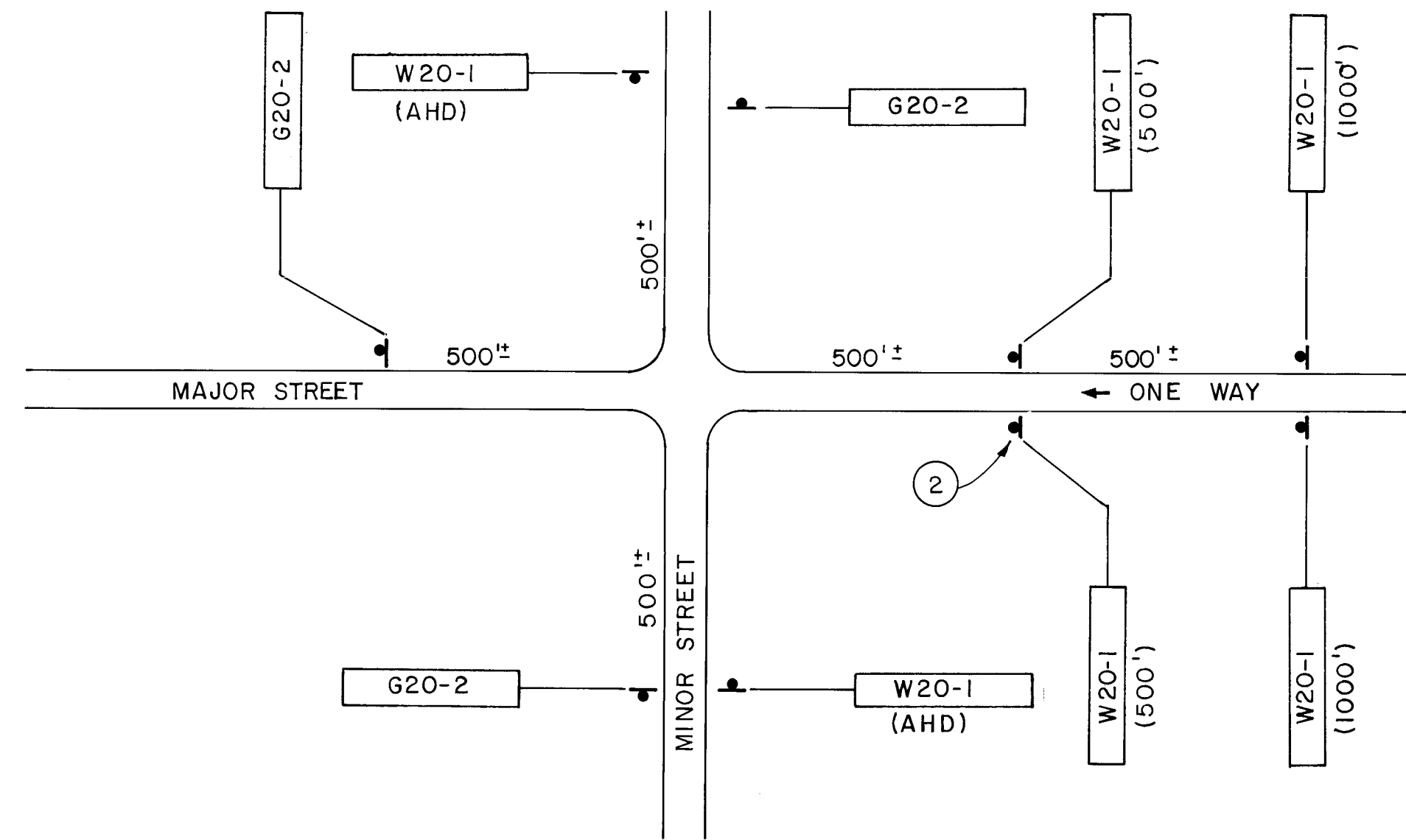
F. H. W. A. Region No.			SHEET NO.	TOTAL SHEETS
6	NEW MEXICO			

[illegible]

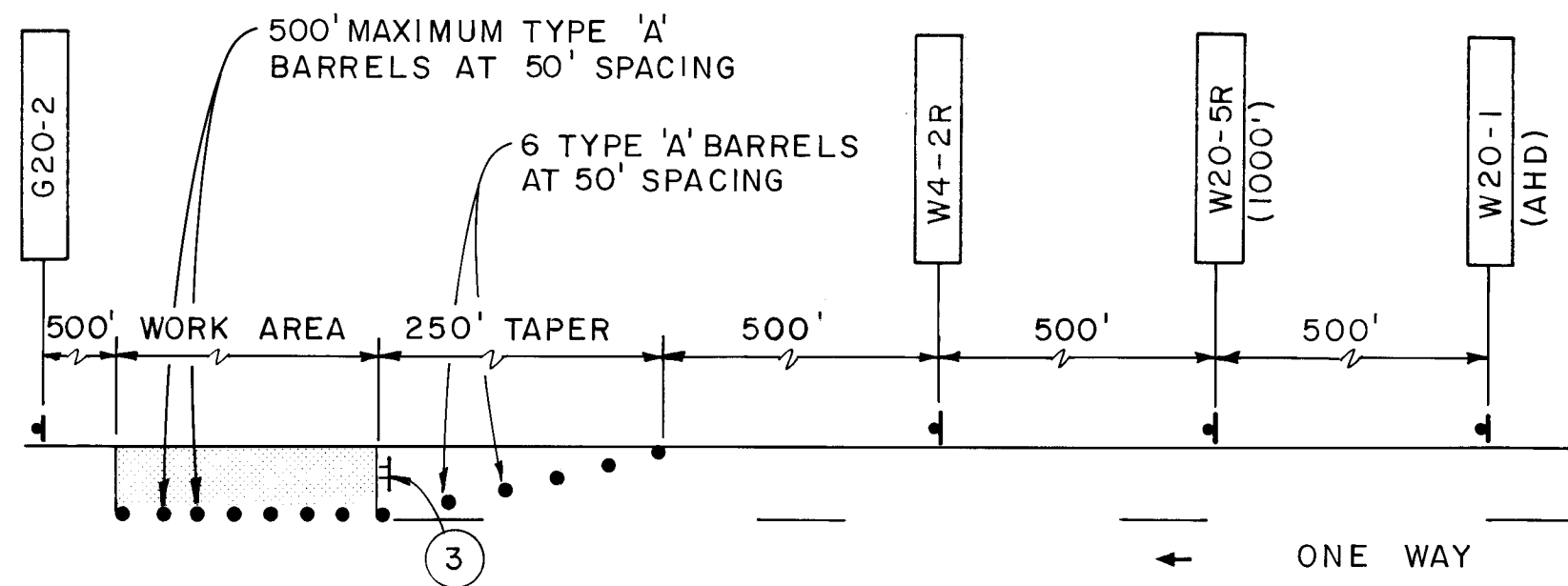
C of A PWD Maps & Records

1	2	3	4	5	6	7	8	9	10
2	6		3	9	7	1	2	4	9

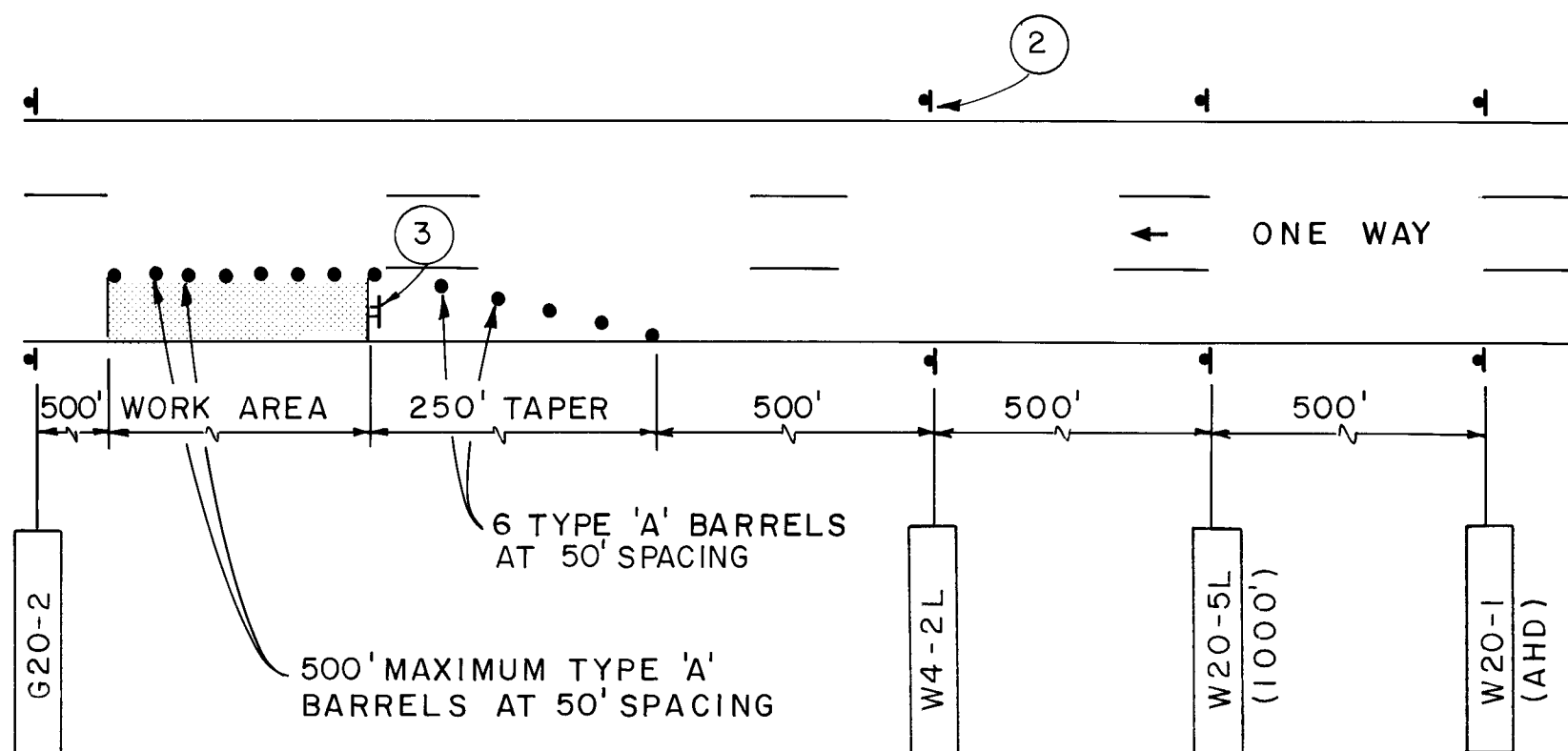




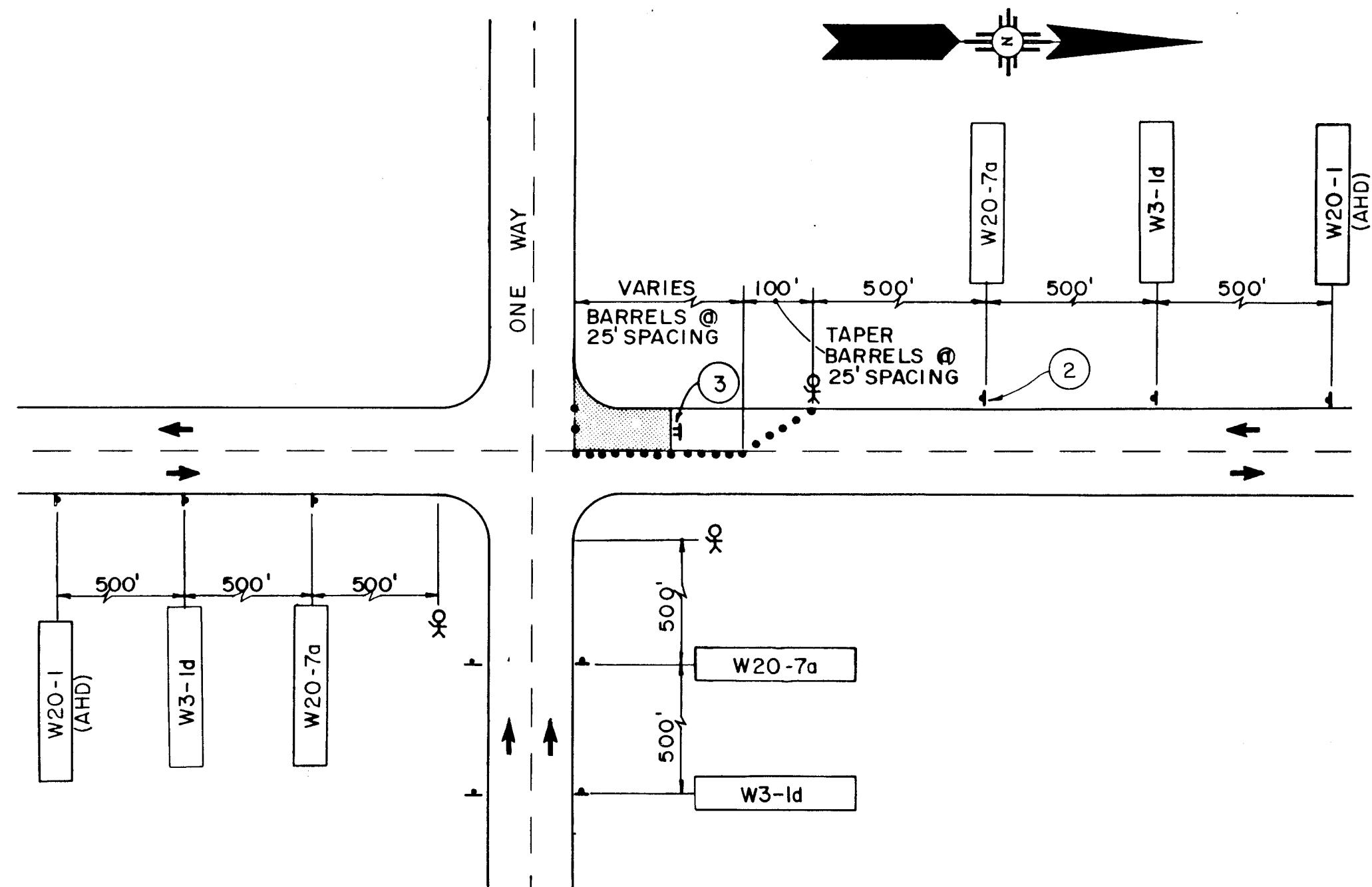
TYPICAL ADVANCE SIGNING



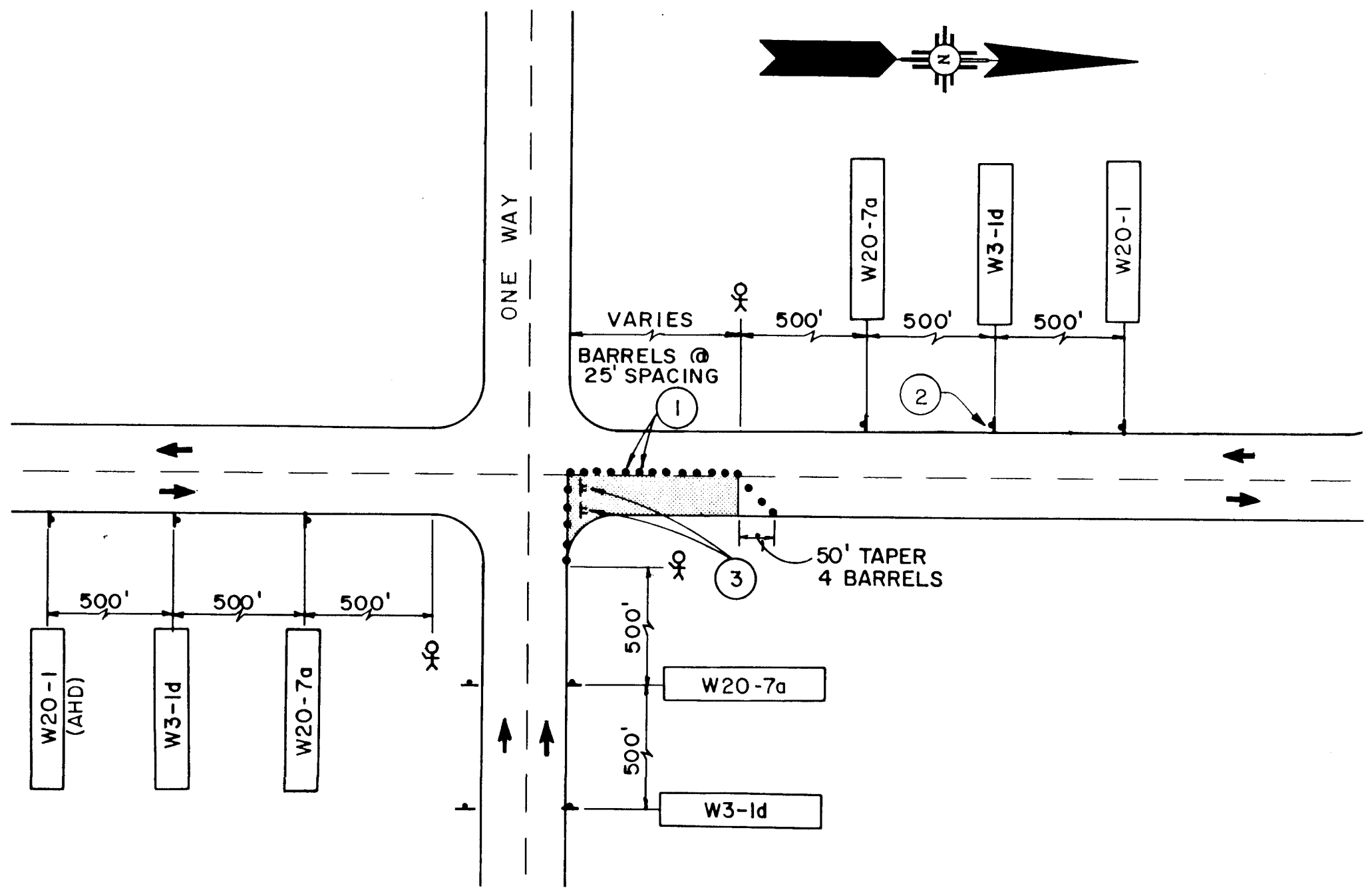
MAJOR STREET RIGHT LANE CLOSURE



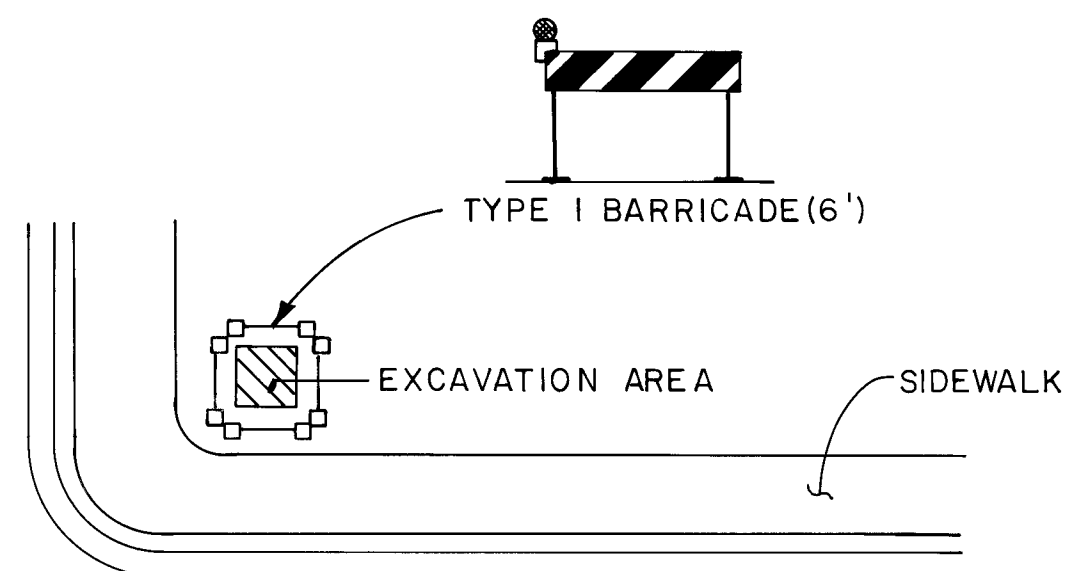
MAJOR STREET LEFT LANE CLOSURE



MINOR STREET RIGHT LANE CLOSURE



MINOR STREET LEFT LANE CLOSURE



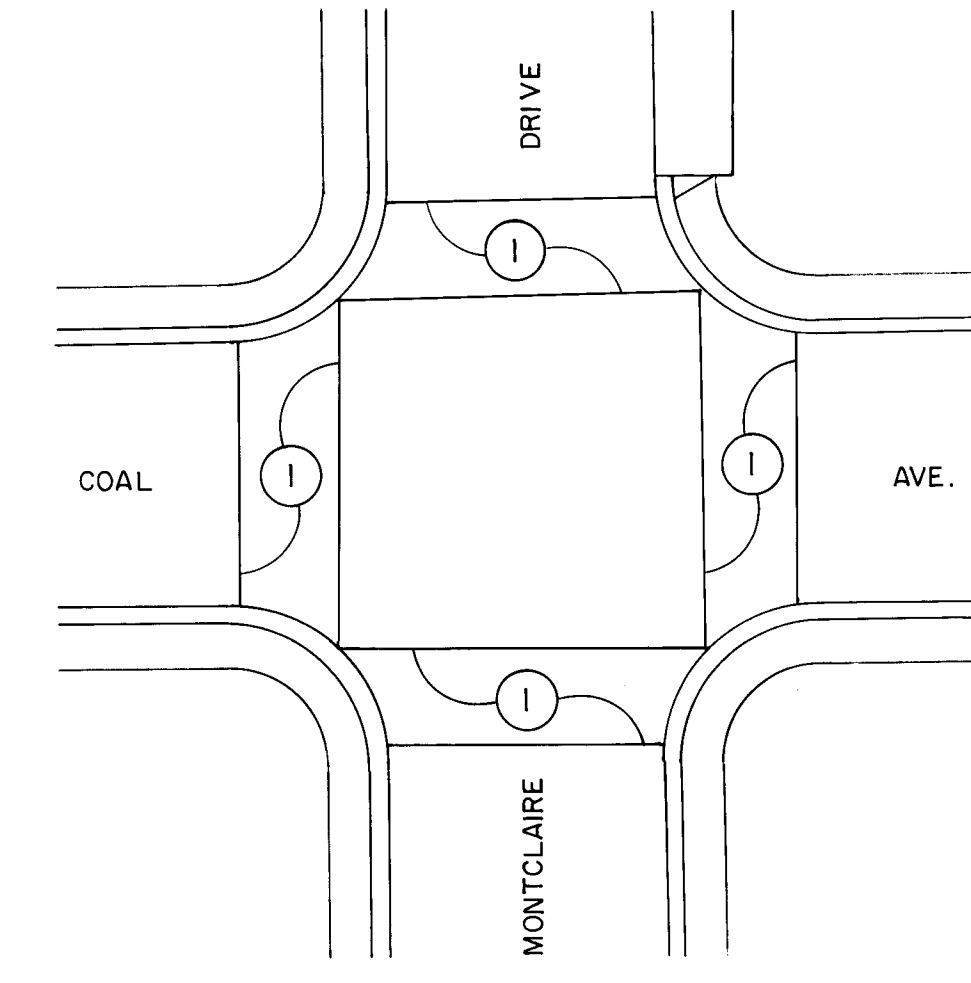
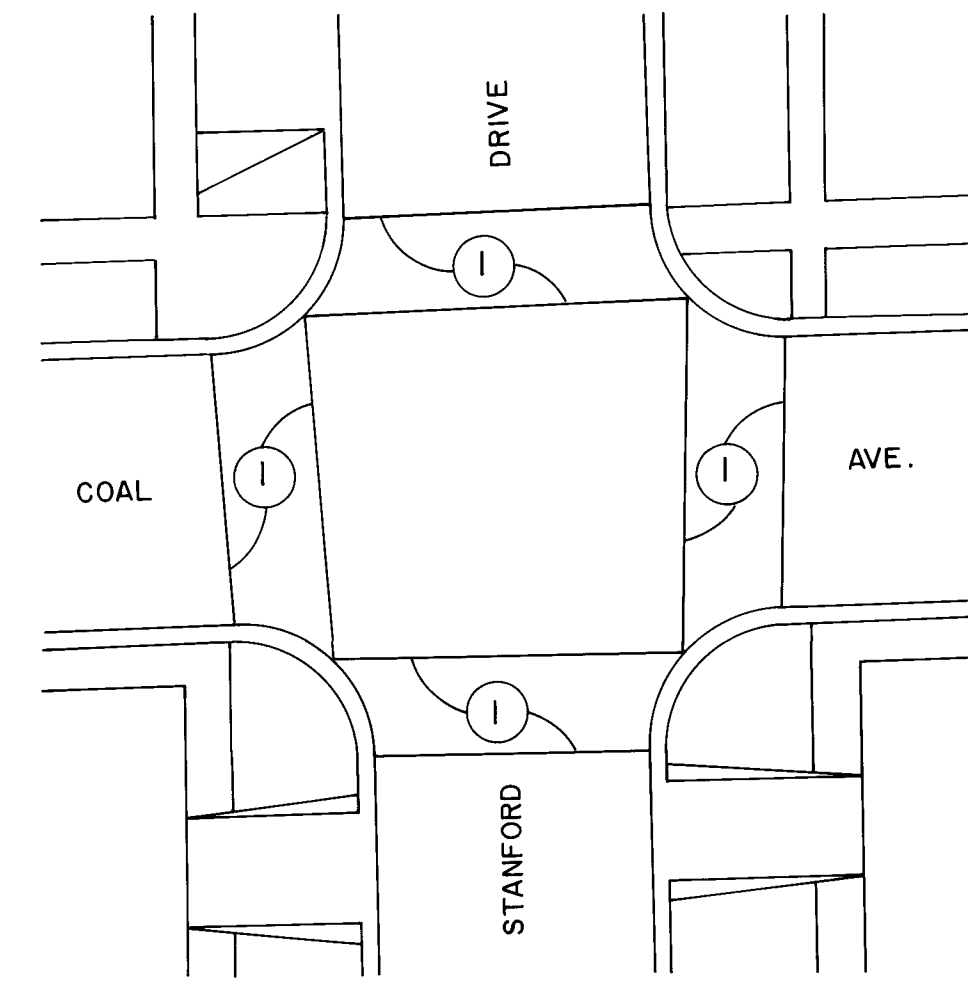
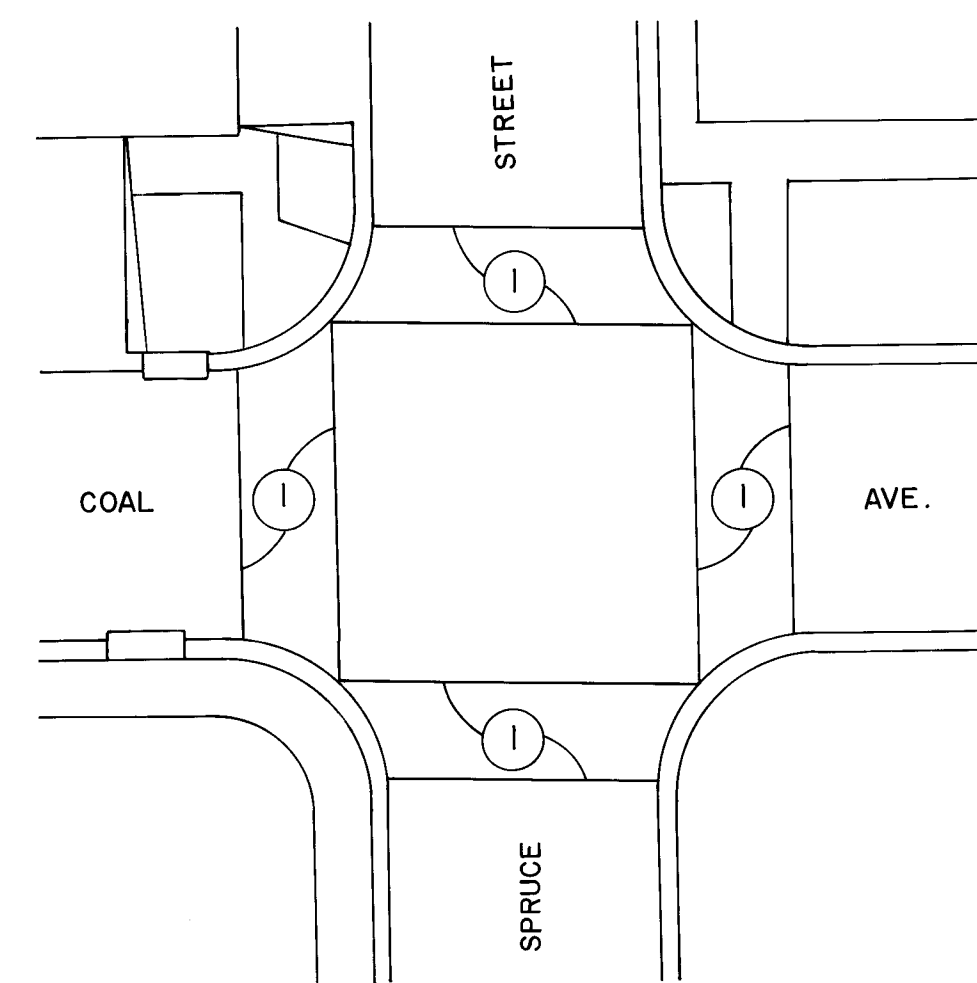
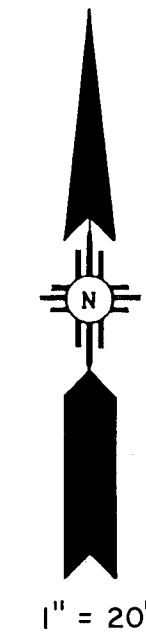
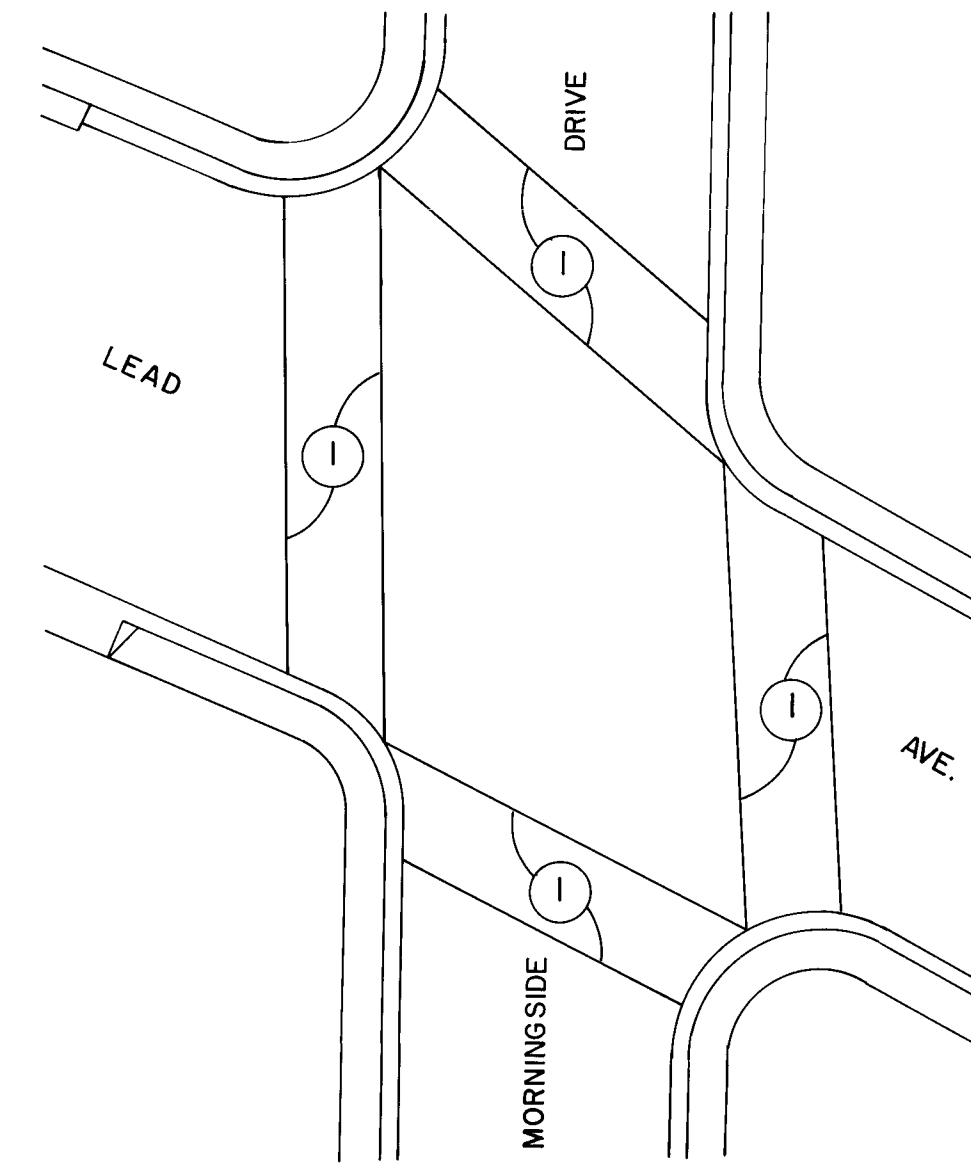
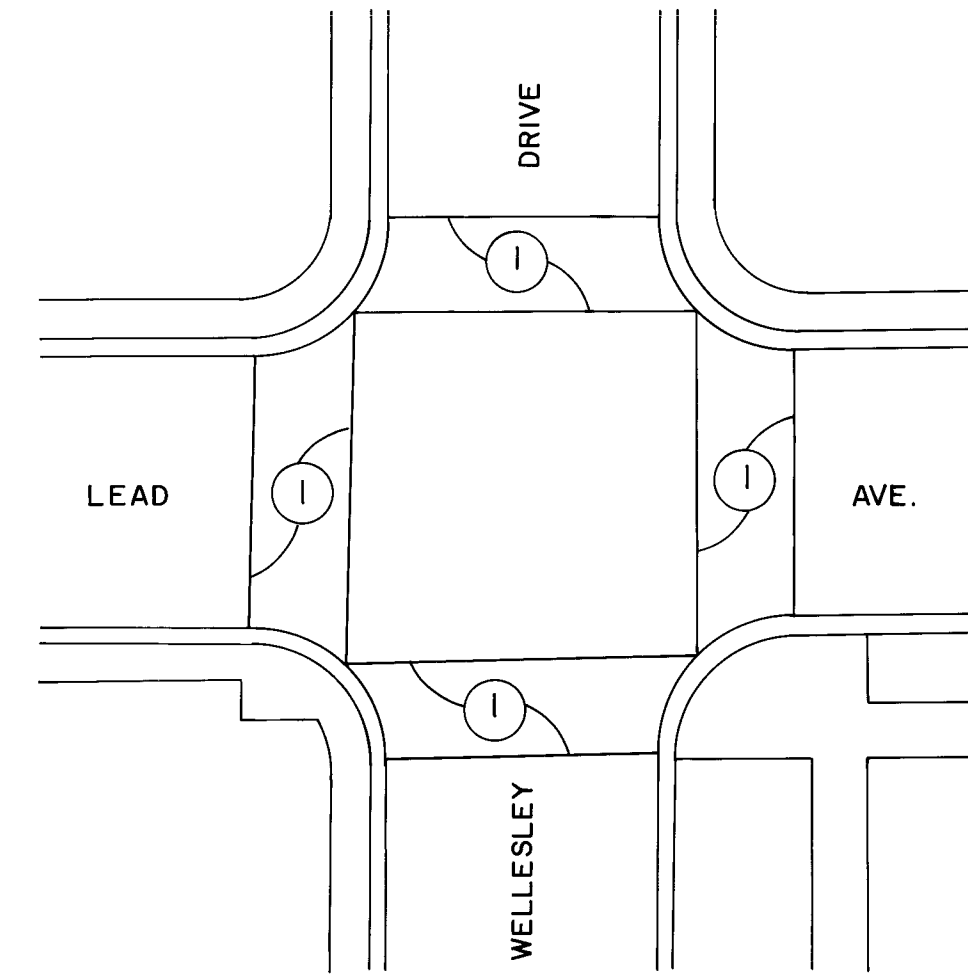
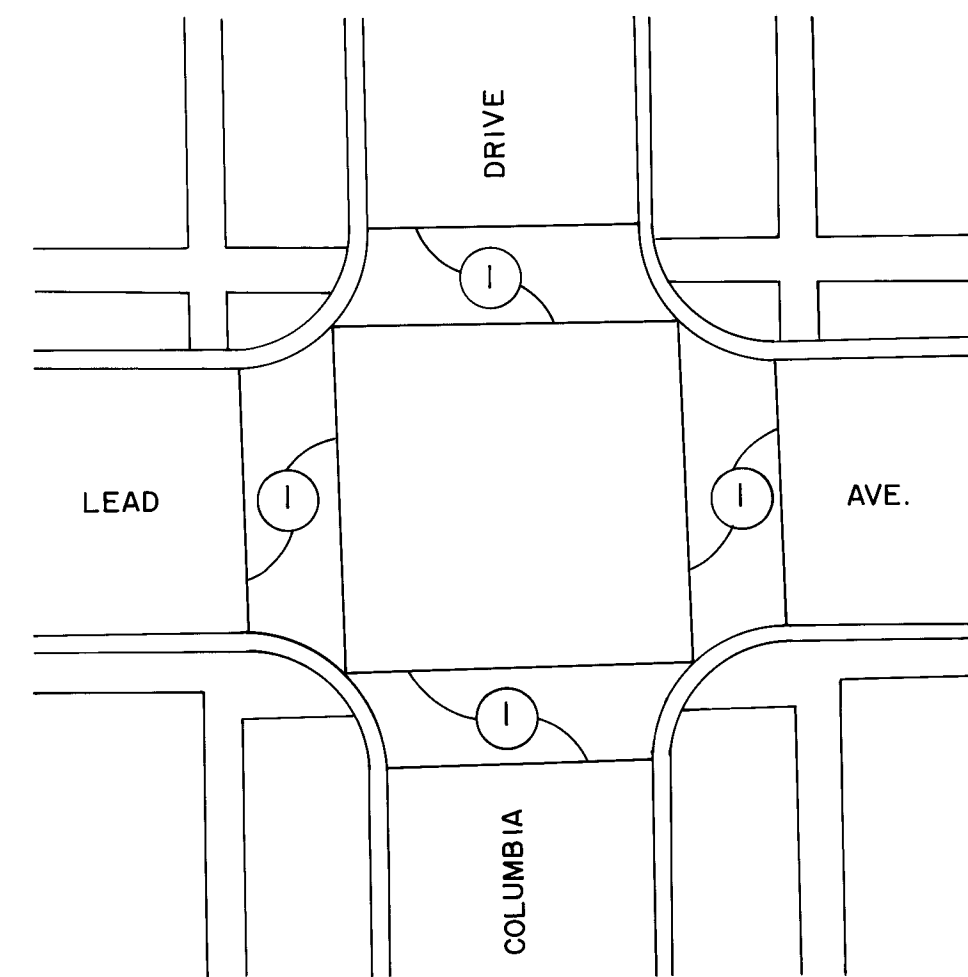
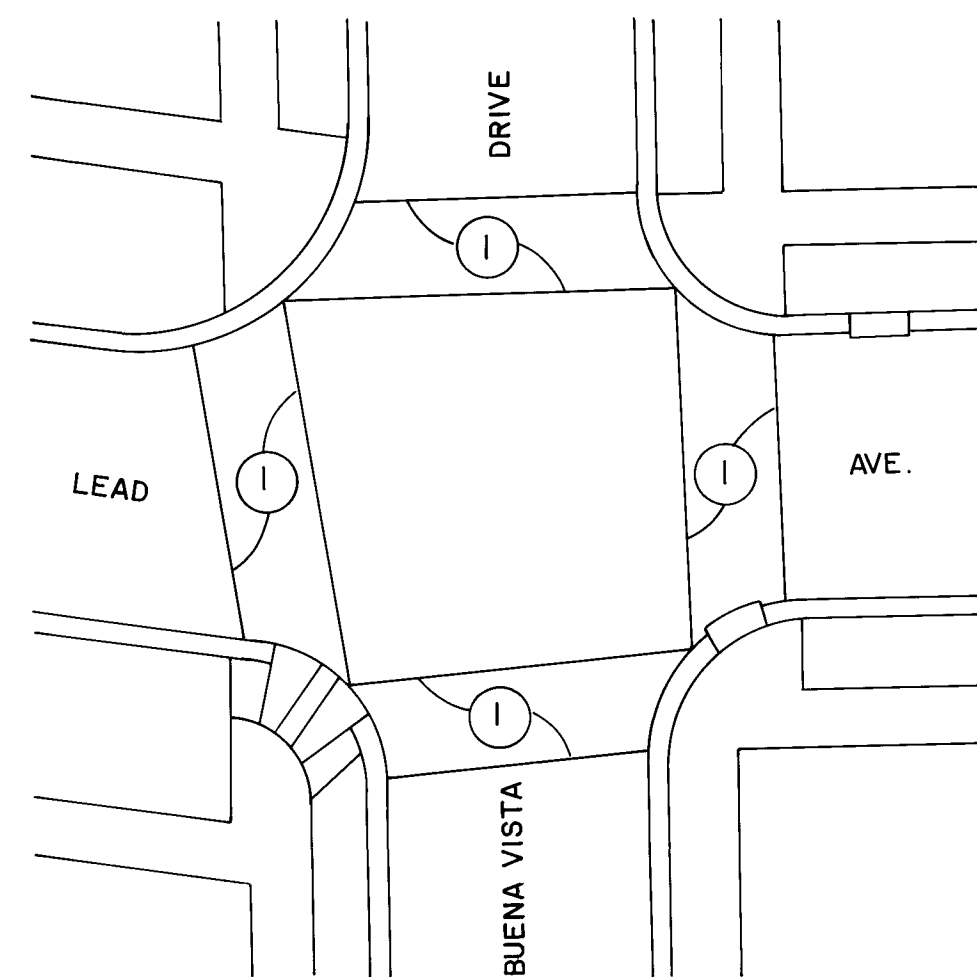
EQUIPMENT EXCAVATION OPERATION

FHWA Region No.	NEW MEXICO	SHEET NO.	TOTAL SHEETS
6			

KEY	LEGEND
1	CHANNELIZATION DEVICES- BARRELS TYPE "B"
2	SIGN WITH MUTCD CODE
3	TYPE III BARRICADE - 8'
X	FLAGGER
	WORK AREA

AS-BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	ENGINEER'S SEAL
CONTRACTOR	MEASURED/WOODCOCK	FIELD NOTES	
WORK	DATE	NO.	BY
INSPECTOR'S	CITY	DATE	
FIELD	DATE		
VERIFICATION	CITY		
CORRECTED	DATE		
BY			
RECORDED	DATE		
NO.			

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES TRAFFIC CONTROL PLAN			
APPROVALS	ENGINEER	DATE	APPROVALS
DRC CHAIRMAN	2/1/90	WATER	R.W. Kane 2-6-90
TRANSPORTATION	2-2-90	WASTE WATER	R.W. Kane 2-6-90
HYDROLOGY			
DRAWING NO.	3971	MAP NO. K-15, K-16, K-17	SHEET 25 OF 27



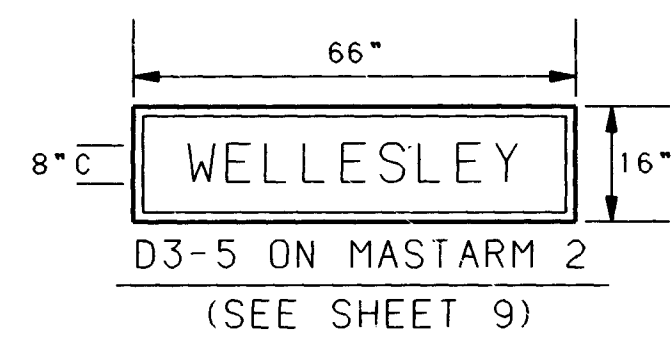
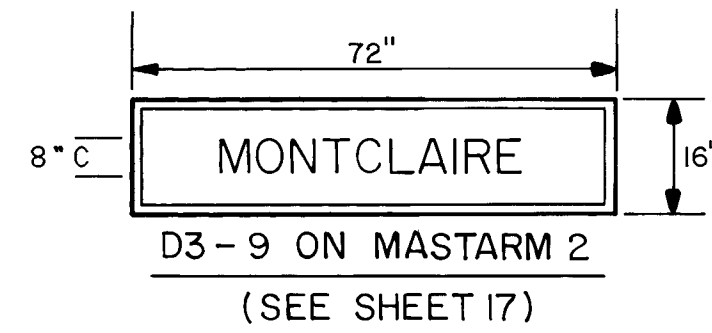
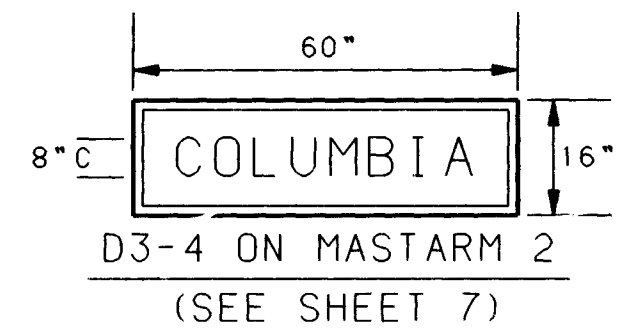
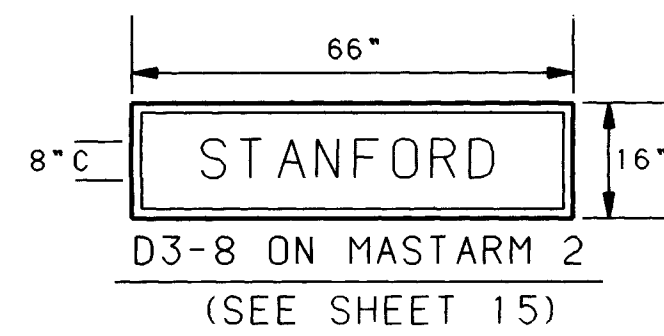
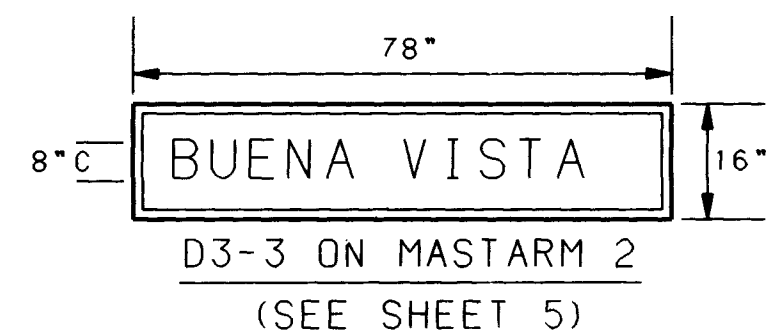
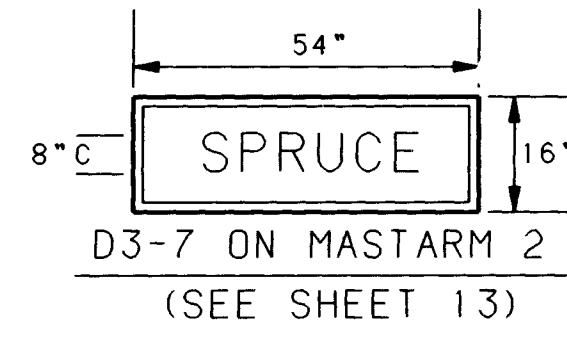
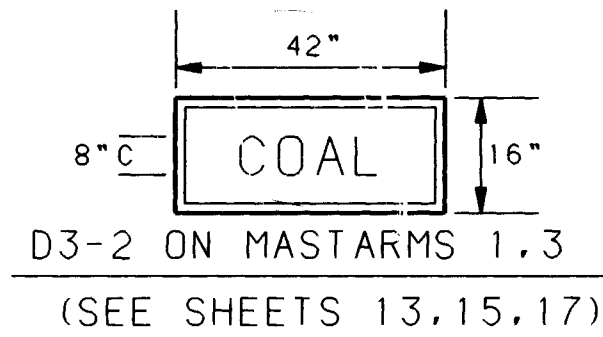
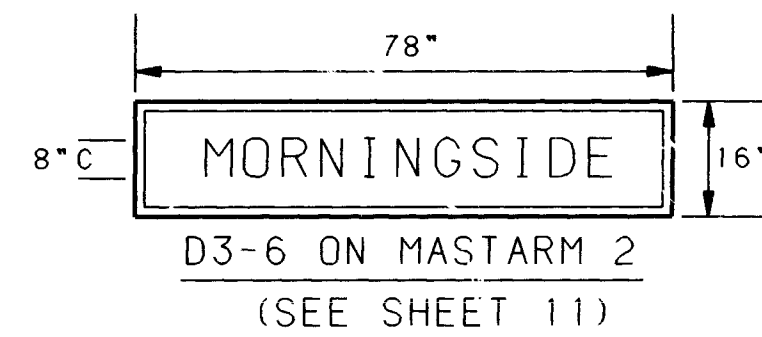
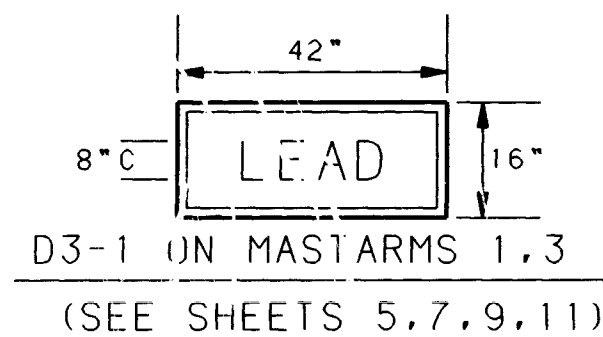
KEYED NOTES:

① APPLY 24" PLASTIC CROSSWALK

Col APPO Mats & Records

1	2	3	4	5	6	7	8	9	10	11	12
26			39	71	26	91					

	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP				
TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES STRIPING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ORC CHAIRMAN	<i>[Signature]</i>	2/15/90	WATER	<i>R.W. Kane</i>	2-6-90
TRANSPORTATION	<i>[Signature]</i>	2-14-90	WASTE WATER	<i>R.W. Kane</i>	2-6-90
HYDROLOGY	<i>[Signature]</i>	<i>[Signature]</i>			
DRAWING NO. 3971		MAP NO. K-15, K-16, K-17		SHEET 26 OF 27	



(SEE SHEETS 5,7,9,11,13,15,17)



(SEE SHEETS 5,7,9,11,13,15,17)

NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE CURRENT EDITION OF THE M.U.T.C.D.
2. THE CONTRACTOR SHALL SUBMIT TO THE PROJECT ENGINEER FOR APPROVAL, DRAWINGS OF SPECIAL SIGN FACE DETAILS (THOSE OTHER THAN STANDARD M.U.T.C.D. SIGNS) SHOWING ARRANGEMENT AND SPACING OF LETTERS, SYMBOLS, AND BORDERS FOR THE MESSAGE INDICATED ON PLANS.
3. PLYWOOD PANEL SIGNS SHALL BE ONE CONTINUOUS SHEET. NO VERTICAL OR HORIZONTAL SPLICING WILL BE PERMITTED.

F.H.W.A. Region No.		SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		

AS-BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL				REVISIONS			
CONTRACTOR	McGEE/WOODCOCK	CITY	DATE/NA	NO.	BY	DATE		NO.	BY	DATE		NO.	BY	DATE		NO.	BY	DATE	
INSPECTOR'S		CITY	DATE 4-1-91																
FIELD		CITY	DATE 4-1-91																
VERIFICATION BY		BHI	DATE 4-1-91																
CORRECTED BY																			
MICRO-FILM INFORMATION																			
RECORDED BY																			
NO.																			

C of APWD Maps & Records									
1	2	3	4	5	6	7	8	9	10
26	3	9	7	1	2	7	9	1	



RECORD DRAWING
DATE 4-1-91

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TRAFFIC SIGNAL IMPROVEMENTS LEAD AND COAL AVENUES PERMANENT SIGNING SIGN FACE DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	R.W. Kane	2/5/90	WATER	R.W. Kane	2-6-90
TRANSPORTATION	R.W. Kane	2-14-90	WASTE WATER	R.W. Kane	2-6-90
HYDROLOGY	R.W. Kane	2/6/90			
DRAWING NO.	3971	MAP NO. K-15, K-16, K-17	SHEET 27	OF 27	