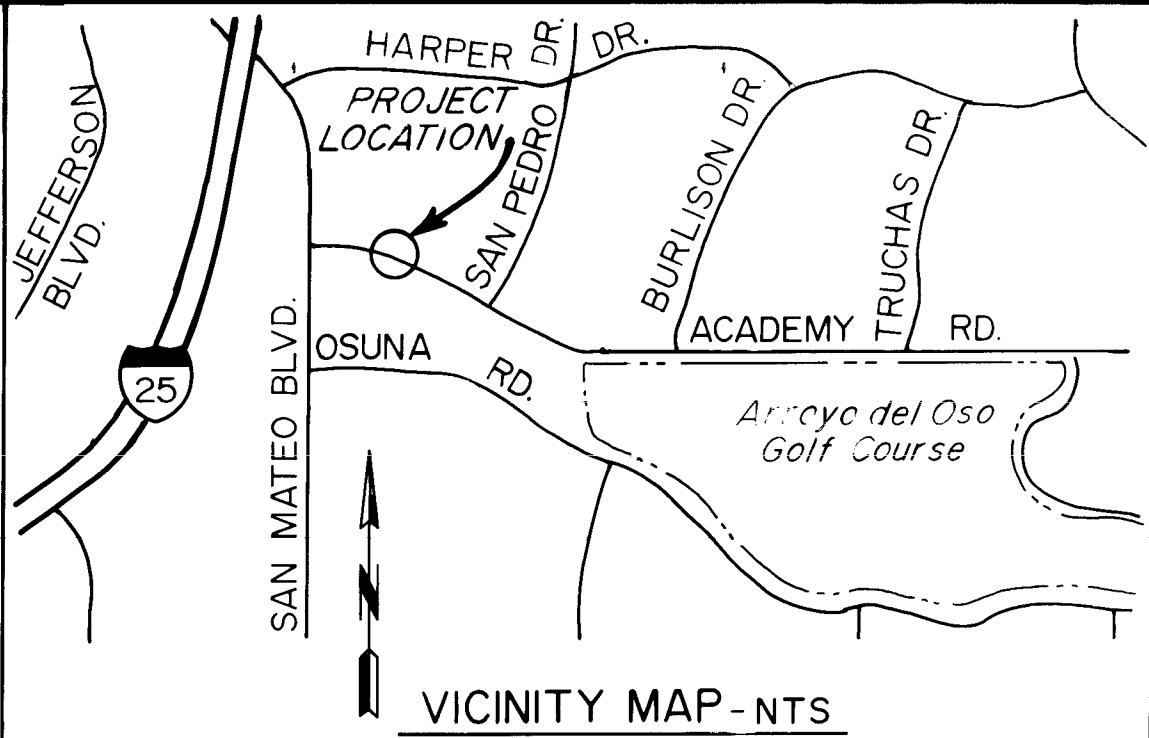


TRAFFIC SIGNAL IMPROVEMENTS
Academy Road and Far North Shopping Center Drive

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
2	TRAFFIC SIGNAL PLAN
3	MISCELLANEOUS DETAILS
4	MISCELLANEOUS DETAILS
5	DECELERATION LANE



GENERAL NOTES

TRAFFIC CONTROL NOTE

- CONTRACTOR SHALL ADHERE TO SECTION 19 (CONSTRUCTION TRAFFIC CONTROL) OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS PUBLIC WORKS CONSTRUCTION, 1986 EDITION AND ALL APPROVED REVISIONS.

NOTICE TO CONTRACTORS

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THE CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS PUBLIC WORKS CONSTRUCTION, 1986 EDITION AND ALL APPROVED REVISIONS.
- TWO (2) WORKING DAYS PRIOR TO EXCAVATION, THE 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 THERE BE A CONFLICT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR THE SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

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 DRIVE PAD, THE DRIVE PAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☐ ALL STORM DRAIN 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 DAMAGE! AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

1 2 3 4 5 6 7 8 9 10 11 12
26 38220190

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
[Signature]
DATE *10-30-89*

△	5 OF 5	<i>[Signature]</i>	10-6-89	<i>[Signature]</i>	10-11-89		
REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

APPROVAL OF REVISIONS

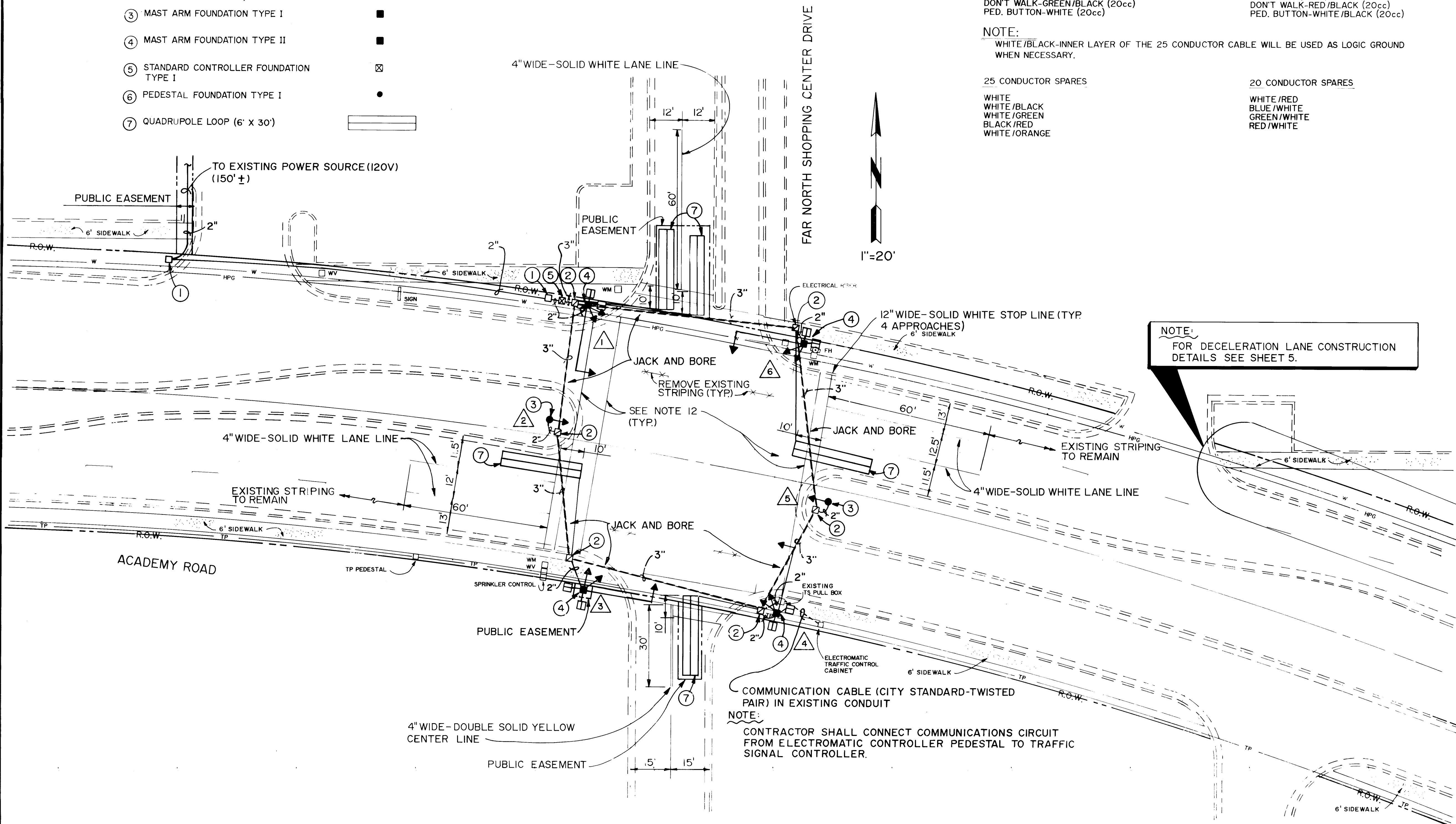
	jhk & associates Bradbury Court, Suite 370 215 Central Avenue NW Albuquerque, New Mexico 87102	APPROVED FOR CONSTRUCTION <i>[Signature]</i> 10-30-89 C.E.
	PROJECT NUMBER 3822	SHEET 1 OF 5

SIGNALS	ARM LENGTH	POLE TYPE	FOUNDATION TYPE	OVERHEAD SIGNAL (MASTARM)	POST MOUNT SIGNAL SECTIONS*	PEDESTRIAN HEAD AND PUSH BUTTONS
1	25'	II-B	MAST ARM-II	3	3,3	2 @ 90°
2		I	PEDESTAL-II		5	
3	25'	II-B	MAST ARM-II	3	3,5	2 @ 90°
4	25'	II-B	MAST ARM-II	3	3,3	2 @ 90°
5		I	PEDESTAL-II		5	
6	25'	II-B	MAST ARM-II	3	3,5	2 @ 90°

* ALL SIGNAL SECTIONS ARE 12"

KEYED NOTES SYMBOL

- 1 STANDARD PULL BOX (TRAFFIC SIGNAL) □
- 2 LARGE TRAFFIC SIGNAL PULL BOX (SEE DETAIL SHEET 3) □
- 3 MAST ARM FOUNDATION TYPE I ■
- 4 MAST ARM FOUNDATION TYPE II ■
- 5 STANDARD CONTROLLER FOUNDATION TYPE I □
- 6 PEDESTAL FOUNDATION TYPE I ●
- 7 QUADRUPOLE LOOP (6' x 30') □



GENERAL NOTES

- All conduit to be PVC, heavy duty, schedule 40.
- All conduit connections to be made of the solvent weld type according to the recommendations of the PVC conduit manufacturers.
- All conduit to be run in straight line fashion from terminal to terminal as much as possible. Some may have to follow curvature to stay within right of way.
- All conduit is to be 2", except that marked 3".
- All conduit runs to be clearly labeled at end points inside pull boxes, manholes, signal foundations, etc. Label both ends of same conduit as "AA", "BB", "CC", etc.
- Detector loop wiring needs to be 14 stranded wire with sliding sleeve.
- The Contractor shall tie in to the existing power service pedestal (located on northeast side of McDonald's Restaurant) for the traffic signal at the San Mateo/Academy intersection using one of the existing breakers on the panel.
- Contractor to contact public service company of New Mexico representative, Larry Stephens, at (505) 848-2137 to verify service connection.
- The Contractor shall be responsible for all contact and permits, etc., with the Public Service Company of New Mexico. At least 48 hours prior to any construction, the Contractor shall contact PNM to verify the service connection.
- The Contractor shall furnish and install all pole foundations, signal poles and mast arms, signal heads, pedestrian pushbuttons, controller cabinet, and the necessary traffic signal control equipment (Multiseries 820 controller, full compatible for use in the City's VMS computer control system, NEMAPLUS conflict monitor, detector amplifiers, 15 amp load switches, flasher, flash control relays, lightning surge arrestors, etc.) per the plans and City requirements. For additional information on traffic signal control equipment, contact Mr. Kevin Broderick, at (505) 291-6220, of the City Traffic Engineering Division.
- The Contractor shall furnish and install all conduit, loops, and conductor wire for traffic signals.
- Three (3) working days prior to striping, the Contractor will contact Paul Sandoval, City of Albuquerque, Signs and Marking Superintendent, at 823-4008. The Contractor is responsible for pavement striping (lane lines, and stop bars) per City requirements and as shown on the plans. Crosswalks will be painted by City of Albuquerque.
- Jack and bore conduit where indicated.
- Any traffic control devices damaged during construction shall be replaced immediately at the expense of the Contractor.
- Communication cable installed between existing splice cabinet shall be 6 pair polyethylene insulated, polyethylene jacket with electrical shielding (rated 300 volts) suitable for use in underground conduit. The communication cable shall conform to IMSA Specification No. 40-2 1984, except shield may be aluminum mylar or polyester providing 100% effective shielding (edges of the tape shall be folded so as to provide metal-to-metal contact between adjacent wraps). The conductor shall be No. 19 AWG.
- Contractor shall not make connection of communication cable in existing cabinet. Coil 5 feet of cable in cabinet for connection by City forces.
- Power Service tie-in requirements shall conform to the Public Service Company requirements given in the Electric Service Guide (1989).

SIGNAL ABBREVIATIONS

G GREEN INDICATION
Y YELLOW INDICATION
R RED INDICATION
W WALK
DW DON'T WALK
PB PUSH BUTTON

1 2 3 4 5 6 7 8 9 10 11 12
26 38 22 20 29 0

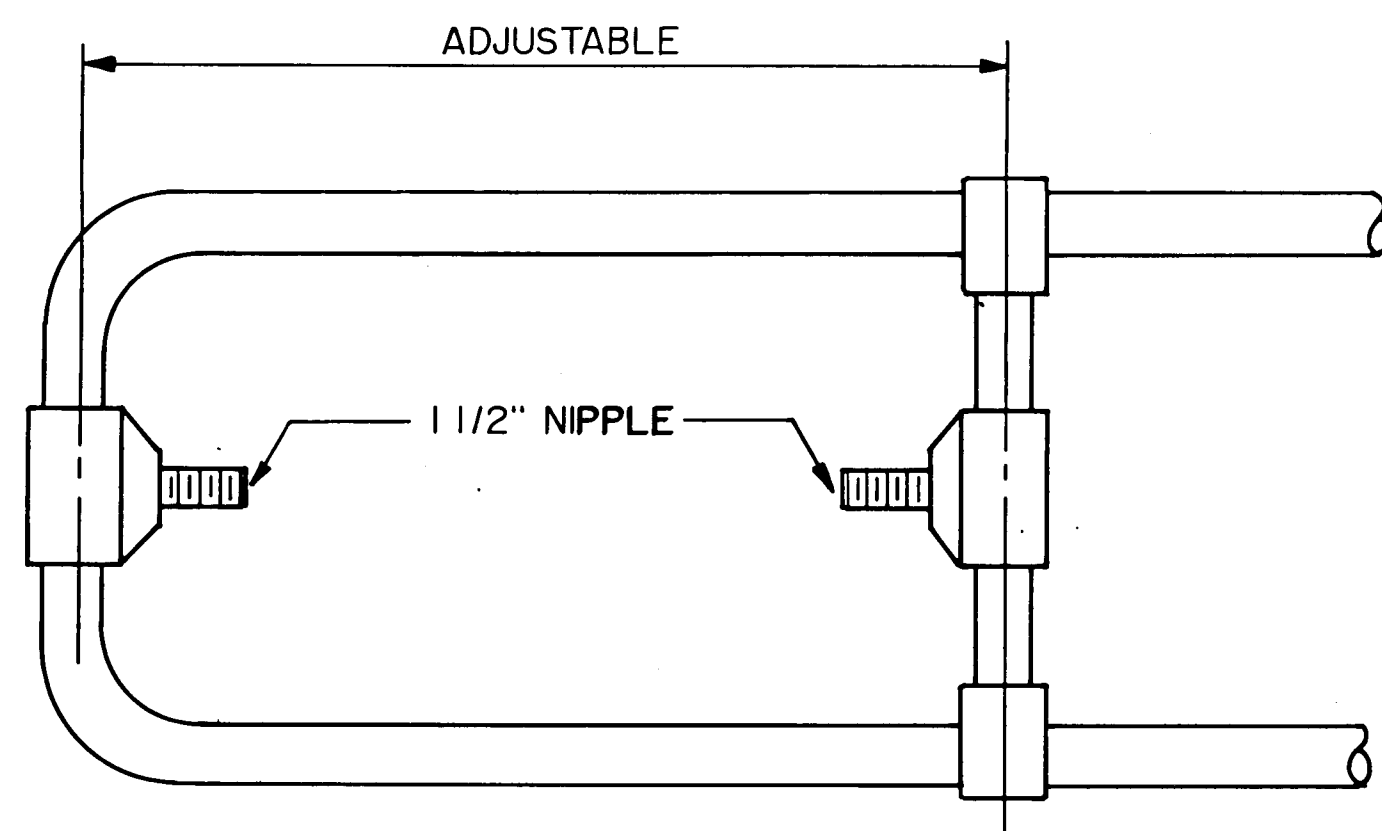
CITY OF ALBUQUERQUE
PUBLIC WORKS
ENGINEERING

jhk

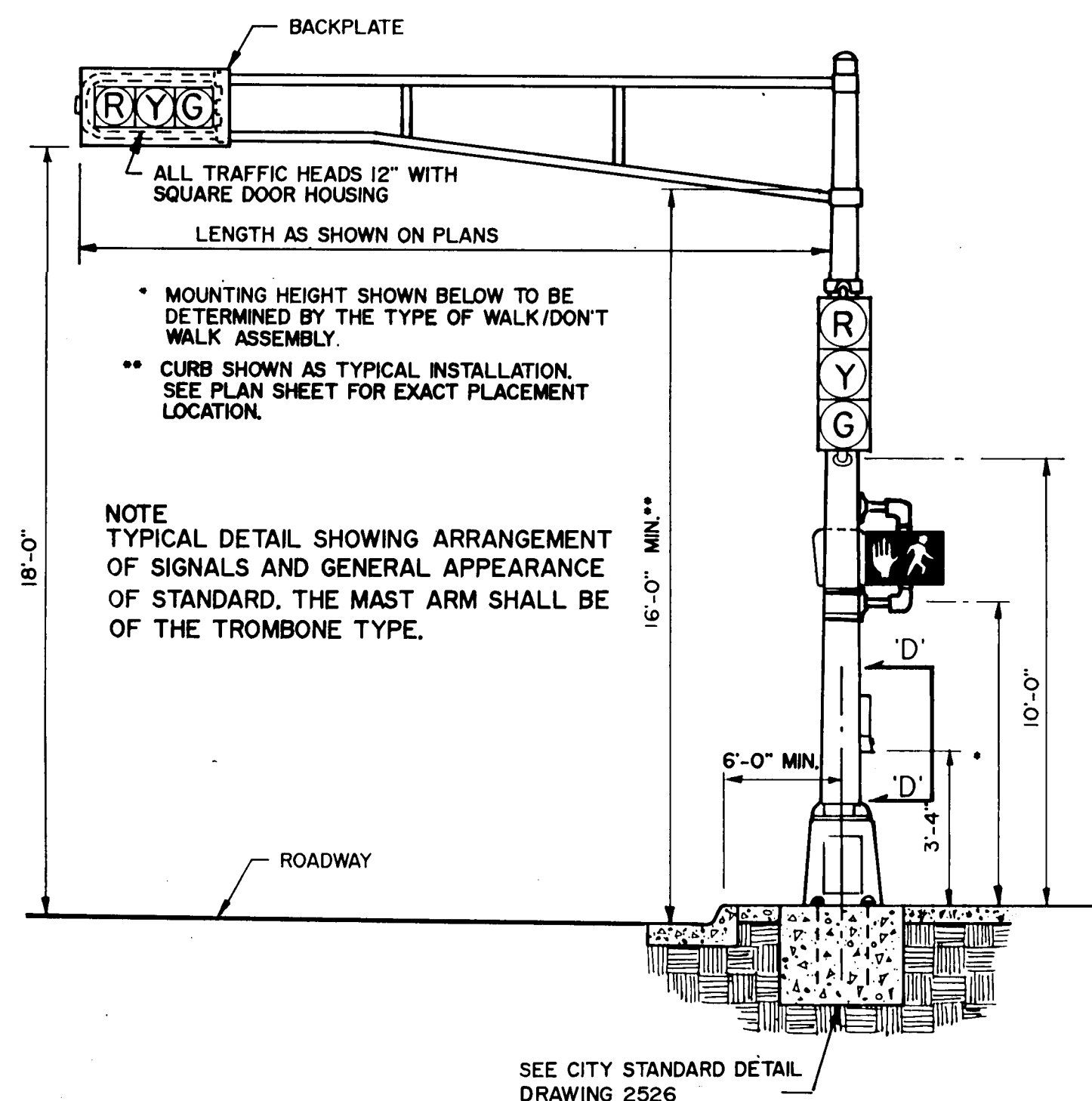
SIGNAL PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	Reggie J. Green	7/18/89	Liquid Waste	PEEP	7/18/89
A C E-Design			Traffic	PEEP	7/18/89
A C E-Hydrology			Water	PEEP	7/18/89

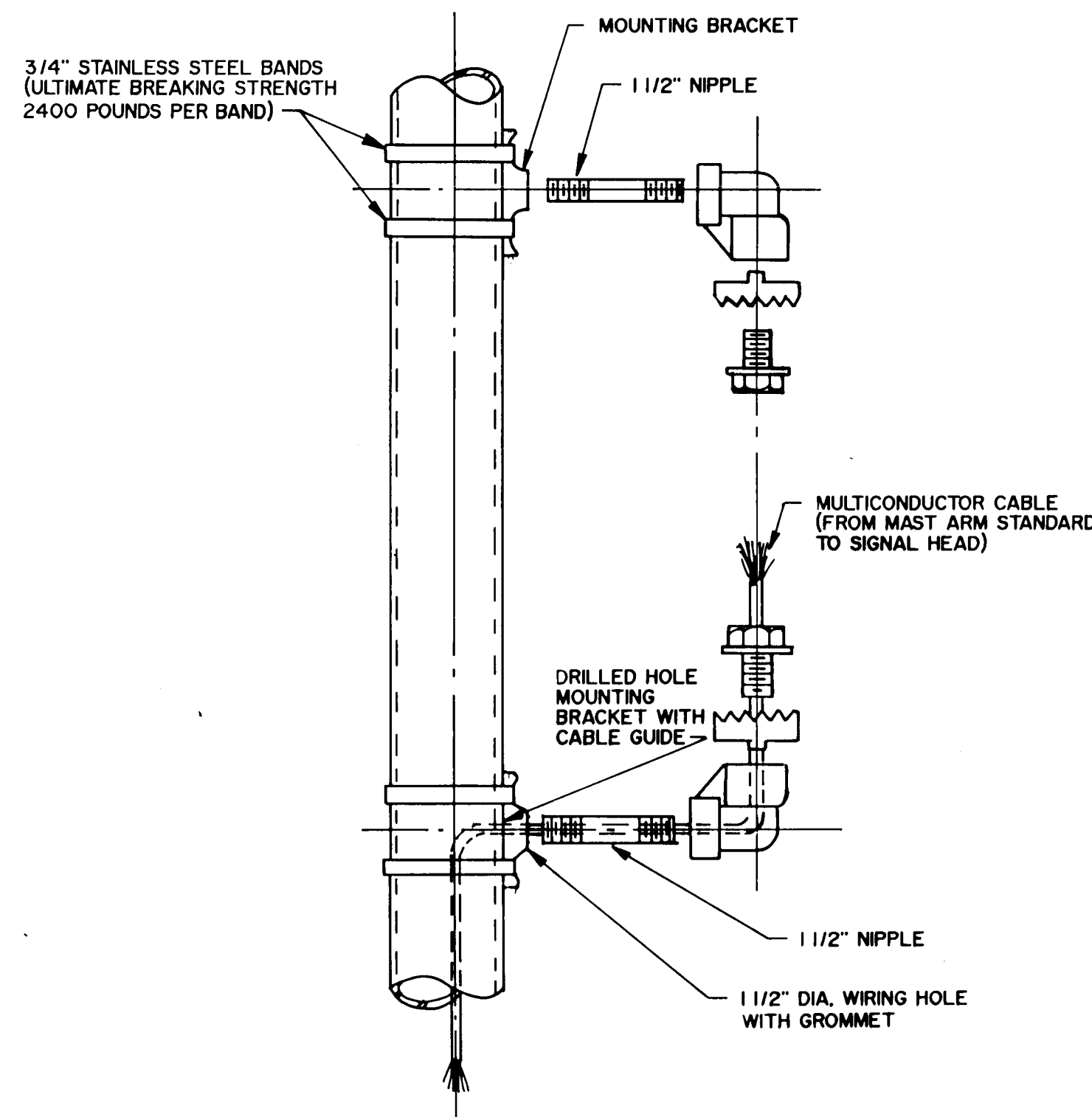
DRAWING NO. 3822 MAP NO. E-18 SHEET 2 OF 5



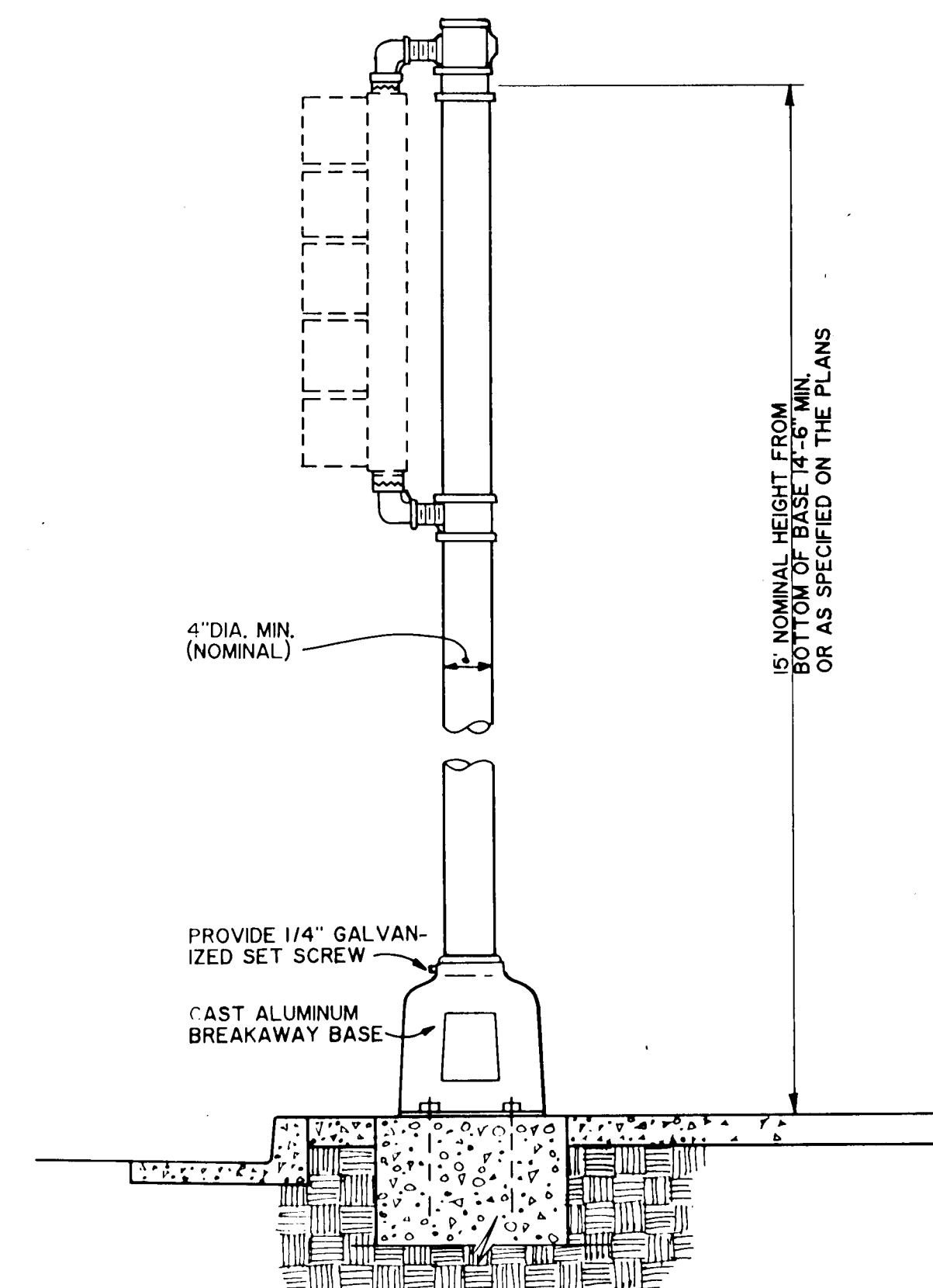
HORIZONTAL MOUNTING DETAIL-NTS



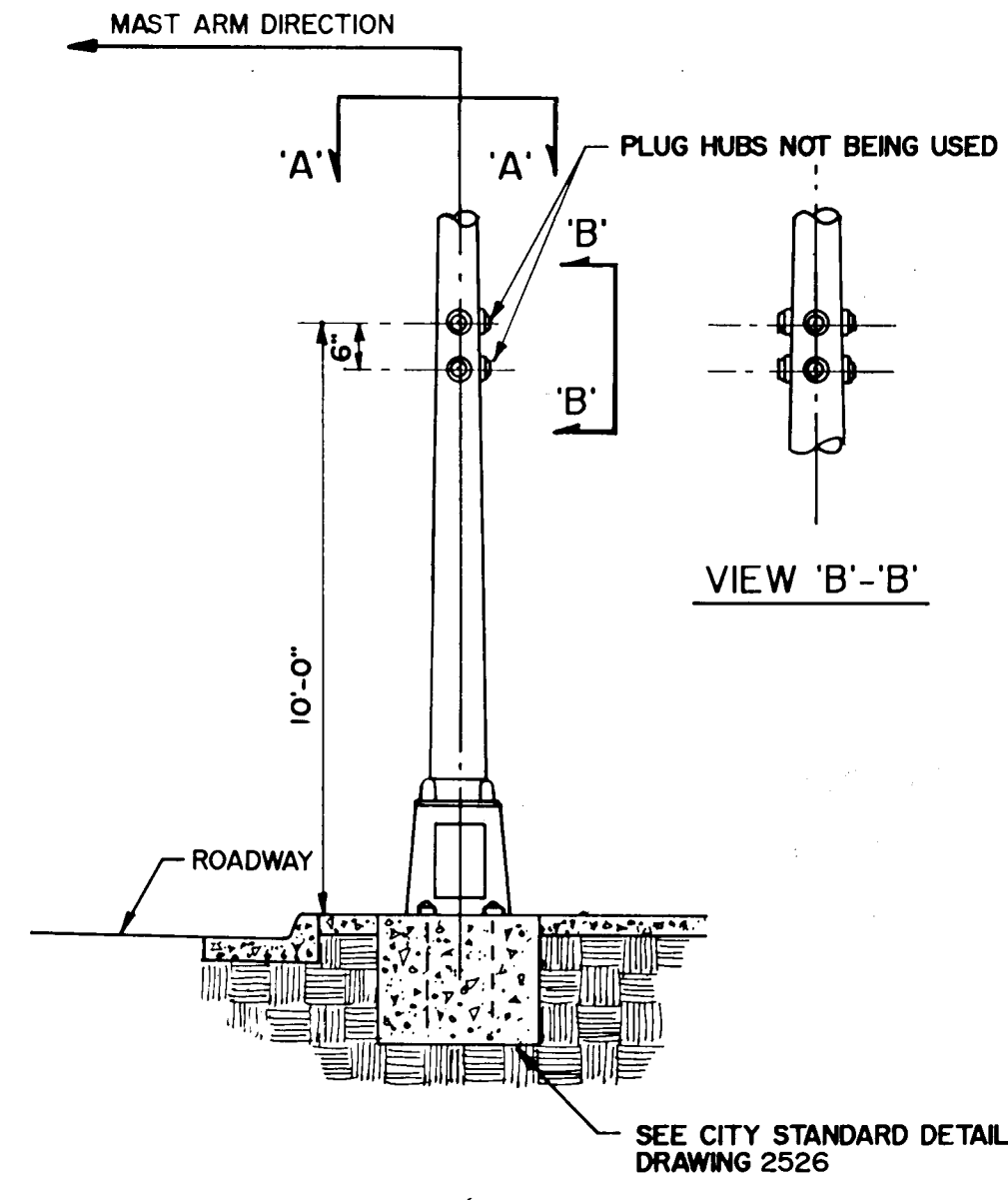
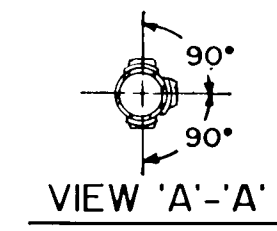
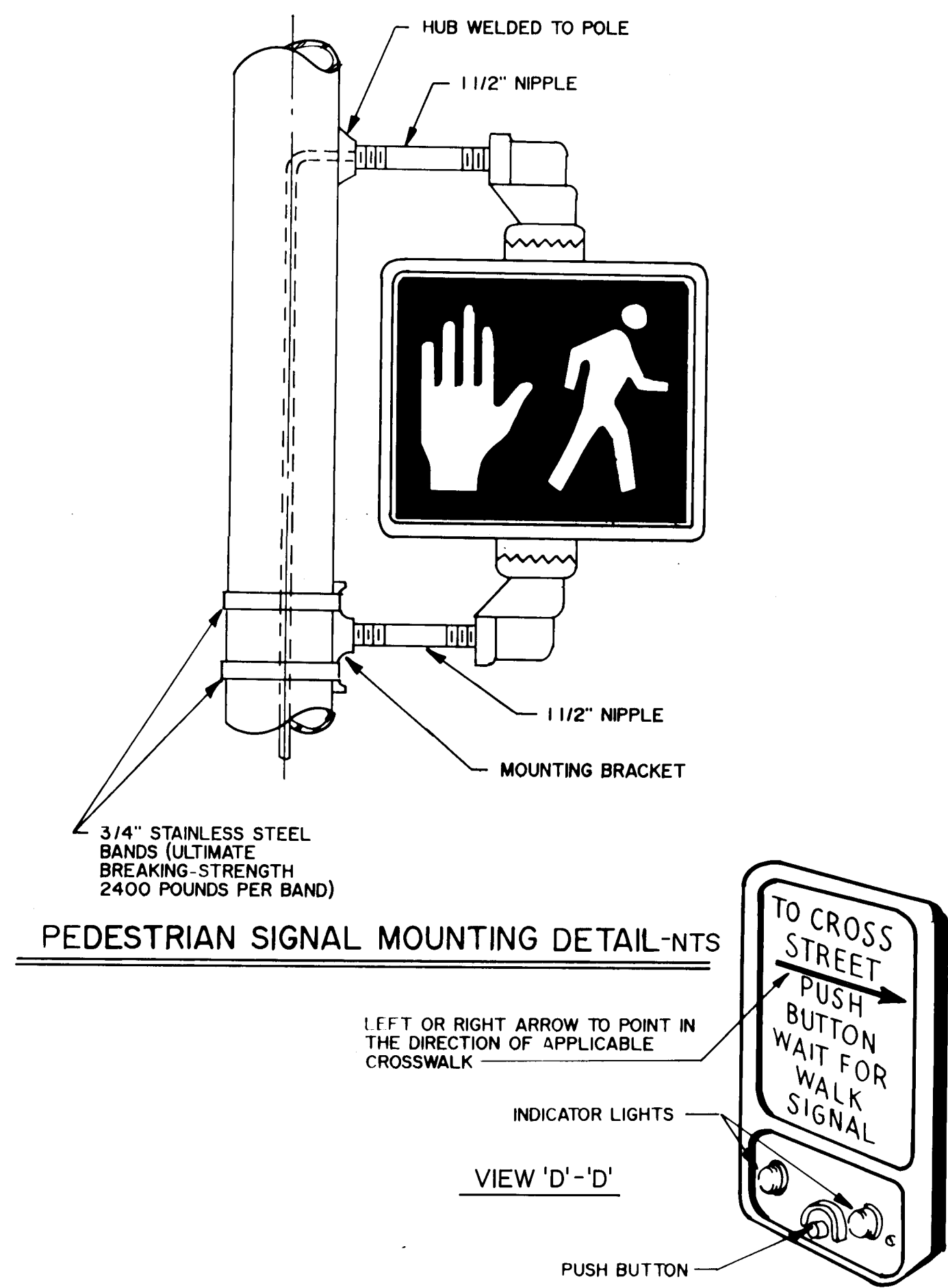
TRAFFIC SIGNAL STANDARD DETAIL-NTS
TYPE II (TYPE "B" MAST ARM)



MOUNTING DETAIL-NTS
SIDE OF SHAFT



MOUNTING DETAIL-NTS
TOP OF TYPE I POLE STANDARD



SHAFT OUTLET DETAIL-NTS
TYPE II POLE STANDARD

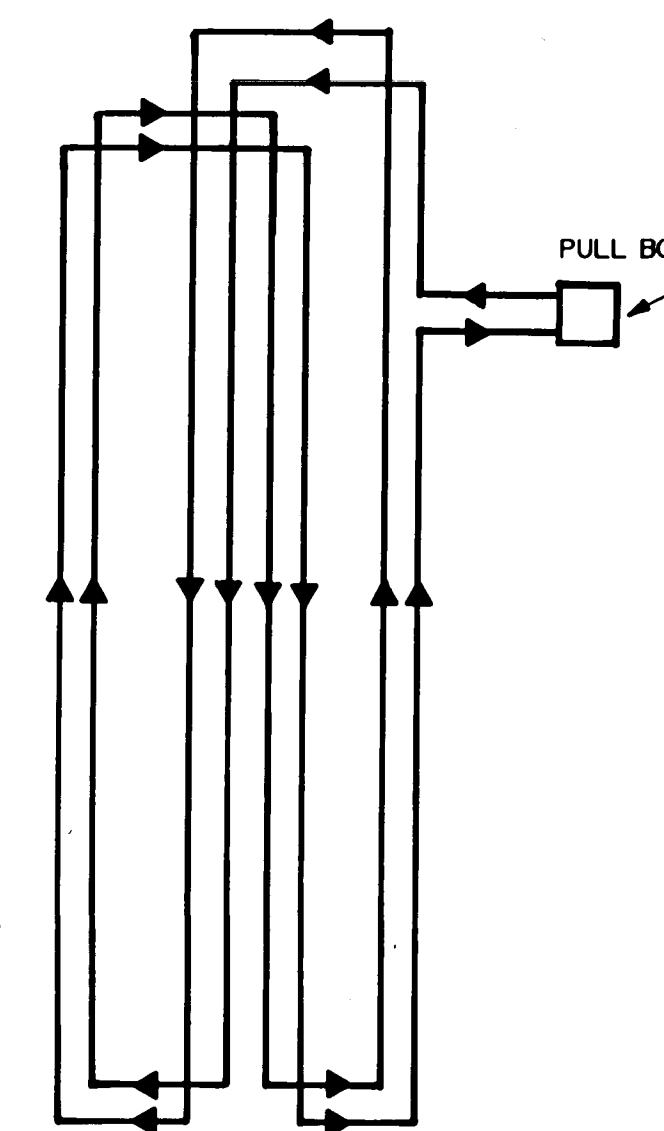
AS-BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	STURDEVANT		NO.	BY	DATE		NO.	DATE	REMARKS	BY	
DESIGNED BY	N/A										
FIELD VERIFICATION BY	ED TOLEDO										
MICRO-FILM INFORMATION											
DESIGNED BY	AP	DATE 3/10/89									
DRAWN BY	CRR	DATE 3/10/89									
CHECKED BY	MAF	DATE 3/10/89									
1 2 3 4 5 6 7 8 9 10 11 12 2 6 3 8 2 2 0 3 9 0											
CITY OF ALBUQUERQUE PUBLIC WORKS ENGINEERING											
SIGNAL PLAN											
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE						
City Engineer	Rogel	7/18/89	Liquid Waste	PE60	7/18/89						
A C E-Design	"	"	Traffic	PE60	7-18-89						
A C E-Hydrology	"	"	Water	PE60	7/18/89						
DRAWING NO.		3822		MAP NO.		E-18		SHEET 3 OF 5			



-
- Diagram illustrating the construction of a road repair section and its plan view.
- SECTION 'A'-'A'**
- The cross-section shows a **ROADWAY** surface above a layer of **EPOXY RESIN**. Below the resin is a vertical core of **SAWCUT 2 1/4" TO 2 1/2" TYP.** This core is reinforced with **TURNES OF WIRE (AS REQUIRED)**.
- PLAN VIEW**
- The plan view shows a rectangular area with dimensions **AS SHOWN ON PLANS** for both length and width. The section line **'A'-'A'** is indicated. A note **TO PULL BOX** with an arrow points to a specific feature on the right side of the plan.
- NOTE:**

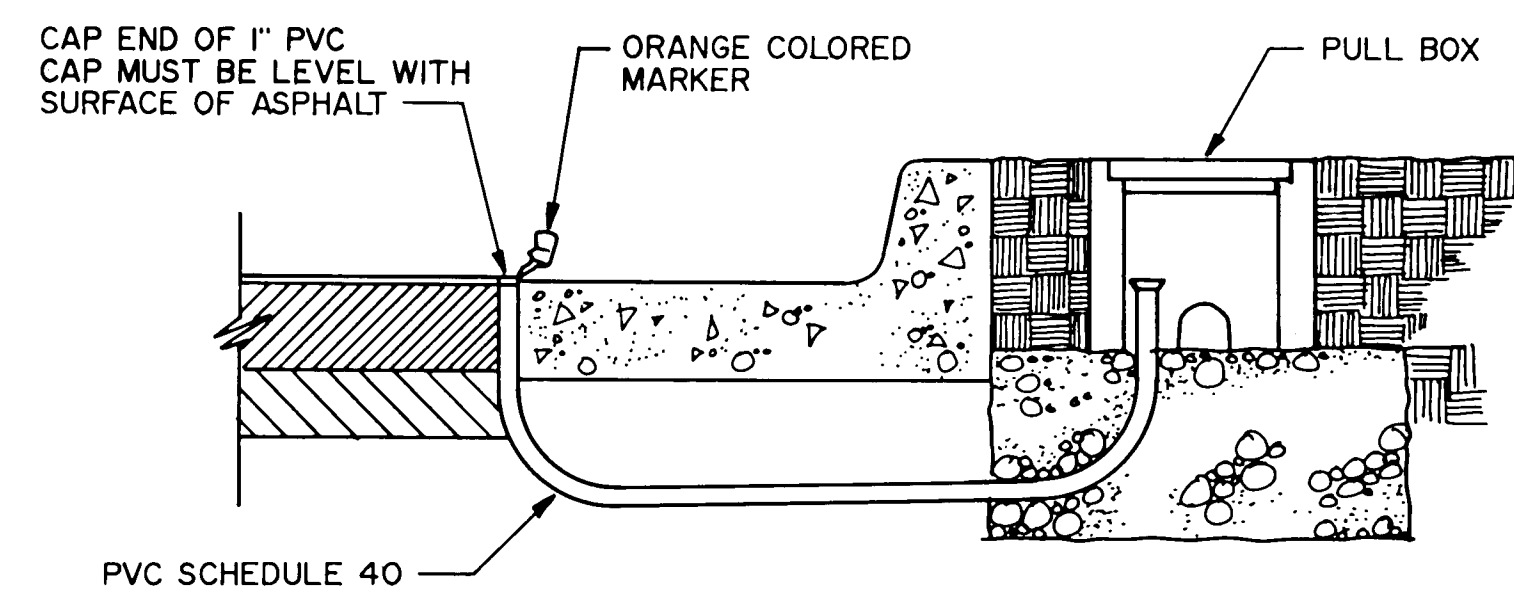
NOTE:
ALL DETECTOR LOOPS TO BE INDIVIDUALLY
WIRED TO THE CONTROLLER. WIRING TO BE
SLIDING SLEEVE #14 AWG X HHW STD.

TYPICAL ROADWAY LOOP SAWCUT DETAIL-NTS



NOTE:
WIRES MUST BE WOUND IN THE
DIRECTION SHOWN.

QUADRAPOLE DETECTOR LOOP DETAIL -NTS



DETECTOR LOOP CONDUIT DETAIL NTS

[illegible]

CITY OF ALBUQUERQUE
PUBLIC WORKS
ENGINEERING

jhk & associates

SIGNAL PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>Roger J. Shea</i>	7/18/89	Liquid Waste	<i>PEBO</i>	7/18/89
A C E-Design	"	"	Traffic	<i>RAD</i>	7-18-89
A C E-Hydrology	"	"	Water	<i>PEBO</i>	7/18/89

DRAWING NO. 3822

MAP NO.
E-18

SHEET 4 OF 5

