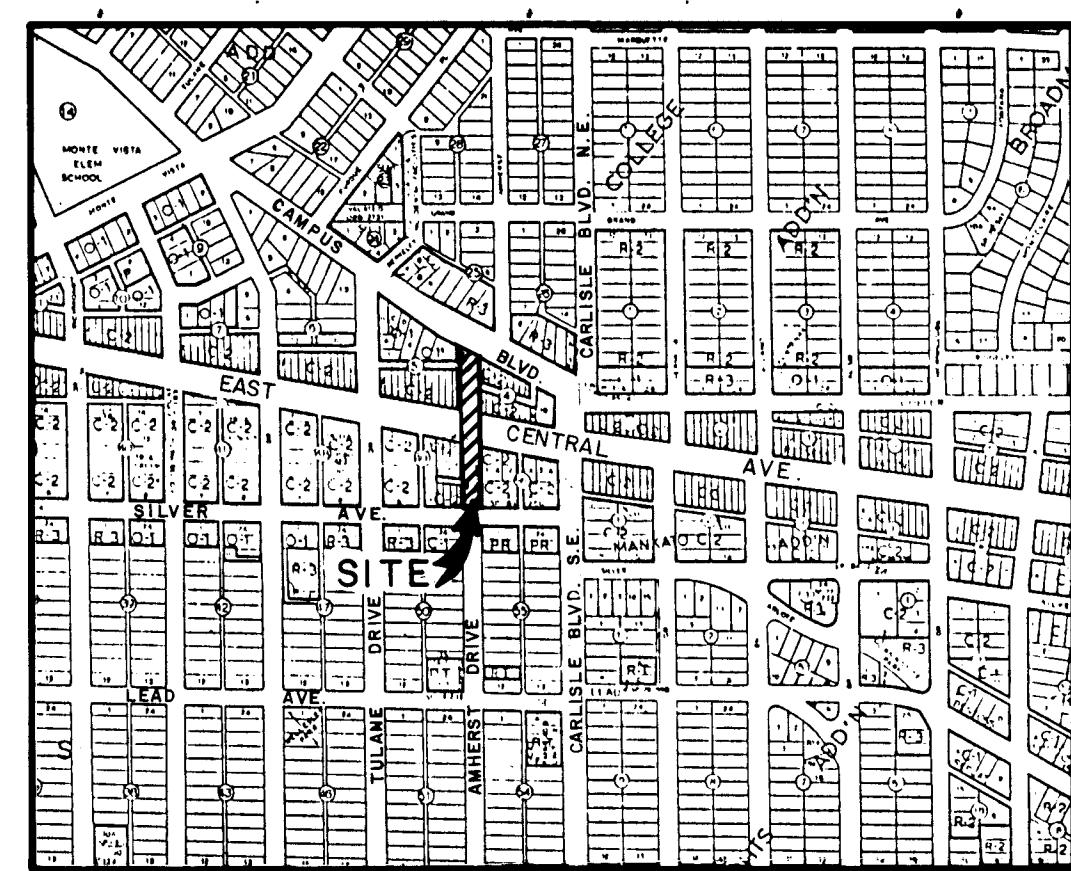


CITY OF ALBUQUERQUE, NEW MEXICO

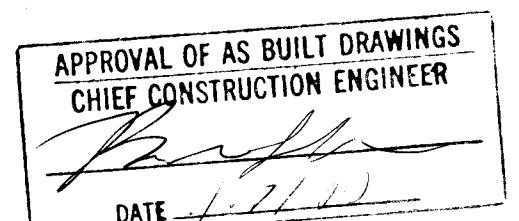
# AMHERST STREET IMPROVEMENTS



VICINITY MAP  
SCALE: 1" = 800'  
K-16-Z

## LEGEND

- 1. . . . . TITLE SHEET
- 2. . . . . GENERAL NOTES
- 3. . . . . SITE PLAN
- 4. . . . . STREET DEVELOPMENT PLAN
- 5. . . . . PLANTER / ISLAND AREA GEOMETRY
- 6. . . . . LANDSCAPING PLAN
- 7. . . . . IRRIGATION PLAN
- 8. . . . . DETAIL SHEET



CONSULTING ENGINEERS • PLANNERS • SURVEYORS

2400 COMANCHE ROAD, NE • ALBUQUERQUE, NM 87107  
TELEPHONE (505) 884-0696

1 2 3 4 5 6 7 8 9 10 11 12  
26 3 7 8 9 0 1 9 0

RECORD DRAWING  
Date: 1-90

△	1,4,7,8	RCV SHEETS	CITY ENGR	DATE	USER DEPT.	DATE	USER DEPT.	DATE
APPROVAL OF REVISIONS								

FRED DENNEY & ASSOCIATES INC.  
CONSULTING ENGINEERS PLANNERS SURVEYORS  
2400 COMANCHE RD. N.E., ALBUQ. N.M. 87107  
(505) 884-0696

APPROVED FOR  
CONSTRUCTION  
*[Signature]*  
J. H. Johnson  
JH 5109 C.E.

RECORD DRAWING Date: 1-90	DRAWING NO.	SHEET 1 OF 8

**GENERAL NOTES:**

1. All work detailed on these plans to be performed under contract shall, except otherwise stated or provided for hereon, be constructed in accordance with the "City of Albuquerque Standard Specifications For Public Works Construction", 1986 Edition, effective on the date of Work Order issuance.
  2. References made to standard drawings refer to City of Albuquerque Standard Drawings unless otherwise stated.
  3. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules, and regulations concerning construction safety and health.
  4. The Contractor shall maintain access to adjacent properties at all times.
  5. The Contractor shall remove and dispose of all objectionable material from the construction site. A disposal site for all removal items shall be obtained by the Contractor. The site shall be in compliance with applicable environmental regulations and approved by the City Engineering Department. All costs incurred in obtaining an acceptable site and haul thereto shall be considered incidental to construction of the project.
  6. The Contractor shall coordinate construction activities with other contractors working in the same area. All delays resulting from the foregoing shall be considered incidental to the project and no separate payment will be made.
  7. The Prime Contractor shall be ultimately responsible for the Subcontractors' needs. Determination of priorities and provisions for electrical power and water supply are also the responsibility of the Prime Contractor. If electrical power or water supply cannot or is not available, the Contractor shall supply generators or use fire hydrants for sources. Costs for such utilities shall be incurred by the Contractor until such facilities are approved and accepted and shall be incidental to the project.
  8. Miscellaneous adjustments in landscaping, irrigation, and planting layouts are to be expected and are incidental to the project. Inspection of layouts is to occur within 24 hours of placement.
  9. All dimensions and radii of curb and curb returns are shown to face of curb unless otherwise noted.
  10. Where removal of existing curb and gutter, sidewalk, or pavement is required, the Contractor shall sawcut and/or remove to the nearest joint. Curb and gutter which is damaged or displaced by the Contractor and is shown as existing and not to be removed under this contract shall be removed and replaced by the Contractor at the Contractor's expense.
  11. Sidewalks and wheelchair ramps within the curb returns shall be constructed wherever a new curb return is constructed.
  12. If curb is depressed for a drivepad or a handicap ramp, the drivepad or ramp shall be constructed prior to acceptance of the curb and gutter.
  13. Where pinned curb makes contact with standard curb and gutter, the gaps and seams shall be grouted and blended to have a smooth transition finish.

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  14. Backfill compaction shall be according to specified street use.
  15. The Contractor shall provide 12" subgrade preparation under all new curbs and gutters, valley gutters and concrete fillets.
  16. All island areas to be planted shall be excavated to a depth of three feet (3') from top of curb, excluding bench at curb (see Detail Sheet). Soil removed shall be disposed of in an Engineer-approved landfill and shall not be reused in this or any other landscape project.
  17. All islands shall have a 30 Mil PE Membrane installed continuously at the back of curb and at the edge of concrete. Membrane shall extend over soil bench and to the bottom of the excavated pit. Adhere membrane to concrete according to the manufacturer's specifications and recommendations.
  18. All electrical conduits shall be installed a minimum of 30" below grade. Construction work shall coordinate with landscape and irrigation piping to prevent conflicts.
  19. Install irrigation system electrical pull boxes at ends of sleeving.
  20. All electrical conduit pull boxes shall conform to City of Albuquerque Standard Drawing 2520, except the cover shall be cast with the word "Irrigation" as appropriate.
  21. All electrical conduit shall conform to conduit specified for traffic signal and street lighting, Section 420, "City of Albuquerque Standard Specifications for Public Works Construction", 1986 Edition, and shall conform to the "National Electric Code".
  22. It shall be the Contractor's responsibility to coordinate with Traffic Engineering (764-1599) the removal of existing meters prior to the removal of the parking meter poles and the installation of the new meters after the installation of the new parking meter poles.
  23. Parking meter poles shall be installed as per City of Albuquerque Standard Drawing 2528.
  24. The cost of the parking meters and the installation of the parking meters shall be the responsibility of the City of Albuquerque.
  25. All existing parking meters shall be removed by saw cutting the posts flush and filling except where indicated on sheet 4.
  26. When removing curb and gutter adjacent to existing pavement, any damage to pavement outside lip of curb and gutter shall be removed and replaced at the Contractor's expense.
  27. All pavement cuts shall be along neat straight lines.
  28. When abutting new pavement to existing pavement, cut back the existing pavement to a neat straight line as required to remove any broken or cracked pavement and match the new pavement to the existing pavement. No separate payment shall be made for such cutting of the existing pavement, but shall be considered incidental to the project.
  29. When construction under this project connects to existing improvements, the Contractor shall provide an easy riding connection.

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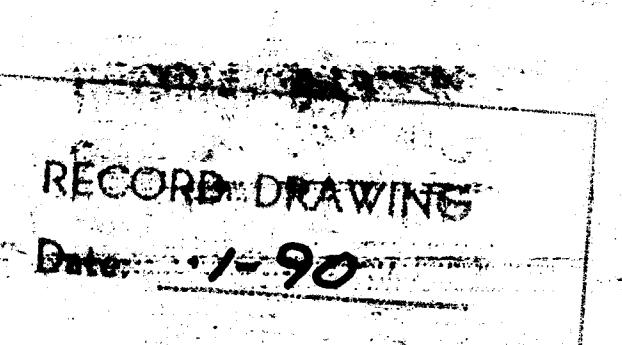
- (CONTINUED)

  30. Should construction on this project take over one day to accomplish, plating of the trench or temporary asphalt concrete pavement shall be provided at the end of each working day. Plates can be obtained from the City of Albuquerque yard on Pino by coordinating with Rick Roybal (768-2531). Plating will be at no additional cost to this contract.
  31. Where sidewalk is being installed over existing pavement, the pavement shall be removed and the area filled and compacted to 90% prior to pouring the four-inch (4") sidewalk (see Detail Sheet).
  32. All storm drainage facilities shall be completed prior to final acceptance.
  33. All existing storm drainage facilities shall be kept clean of construction materials.
  34. Two working days prior to any excavation, the Contractor must contact the Line Locating Service (765-1234) for the location of existing utilities.
  35. Prior to construction, the Contractor shall excavate and verify the horizontal and vertical locations of all existing utilities and potential obstructions. Should a conflict exist, the Contractor shall notify the Engineer so that the conflict can be resolved with a minimum amount of delay.
  36. Joint deflection shall not be allowed at pipe joints.
  37. The Contractor is responsible for verifying all utility locations prior to excavation. Damage to utilities shall be repaired at the Contractor's expense.
  38. All utilities and utility service lines shall be installed prior to paving.
  39. It shall be the Contractor's responsibility to coordinate construction work with the Public Service Company of New Mexico for service pole locations and service requirements.
  40. All utility crossings will be my means of pavement cut unless otherwise noted on the plans. The removal and replacement of asphalt shall conform to City of Albuquerque Standard Drawing 2405, Residential.
  41. The Contractor shall support all exposed utilities during excavation.
  42. The size of the service line will equal (=) the size of the meter.
  43. The utility expansion charges (U.E.C.'s) are the contractors responsibility.
  44. Water meter assembly is to be installed by the City. Waterline taps, line installation, yoke assembly, box, pad and lid are to be constructed by the Contractor.
  45. All mainline waterlines shall be open at joints for testing. The use of sleeves will be allowed.
  46. The waterline service taps for the irrigation system shall be wet tap using a saddle connection.
  47. All electrical wiring within this project shall conform to the National Electric Code.

(CONTINUED)

48. All permanent traffic striping and restriping of new or existing pavement markings will be the responsibility of the Contractor.
  49. All permanent traffic signing will be performed by the City of Albuquerque Traffic Engineering Department.
  50. All barricades and signing shall conform to applicable sections of the "Manual on Uniform Traffic Control Devices" (MUTCD), U.S. Department of Transportation, 1978 Edition.
  51. The Contractor shall prepare a construction signing plan and obtain approval of such plan from the City of Albuquerque, Traffic Engineering Department, prior to beginning any construction work on or adjacent to existing streets.
  52. All construction warning signs shall have a mounted height of seven feet (7').
  53. The Contractor shall maintain all barricades and signing at all times. The Contractor shall verify the proper location of all barricades at the end and beginning of each day.
  54. Parking striping shall be white permanent striping per the "New Mexico State Highway Department's Standard Specification for Road and Bridge Construction", 1984 Edition, and shall be the Contractor's responsibility.
  55. All pavement cuts for trenching and installation of the main waterlines and electrical conduit for the irrigation system within Amherst shall be two feet (2') wide for a one foot (1') trench with six-inch (6") cutbacks on both sides. Otherwise, trenching shall conform to the City of Albuquerque Standard Drawing 2465 (Residential). All other trenching for water and electrical lines outside of Amherst shall be per direct bury trench detail on sheet 8.
  56. Whenever possible, the electrical conduit from the service drop to the controllers shall be in a common trench with the irrigation system.
  57. The trench within Amherst shall be such that one edge of the trench is along the lip of curb and gutter, except when crossing the street.
  58. All planters will have a curb drain installed at the low end of each planter per detail on sheet 7.
  59. All existing utilities were derived from City of Albuquerque Systems Maps, field observations and information supplied by various departments, and are approximate.

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



CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT

ITLE: AMHERST STREET IMPROVEMENTS  
GENERAL NOTES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
Engineer	Eng. Dept.	5/24/89	Liquid Waste	PEGO	5/23/89
- Design	II	..	Traffic	Ram & Tree -	5/24/89
- Hydrology	II	..	Water	PEGO	5/23/89

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**MATCHLINE STA. 4 + 50**

This hand-drawn map illustrates a utility network at station 4 + 50. Key features include:

- Water Lines:** A main horizontal line labeled "10" Steel WL" with segments at 5'00" and 6'00". Specific points include TC=88.55, FL=82.88; TC=89.51, FL=83.22; and TC=89.44, FL=83.60.
- Sewer Lines:** Labeled "10" SAS" and "10" WL".
- Gas Lines:** Labeled "6" From South R.", "8" SAS", and "10" P Gas".
- Electric Lines:** Labeled "10" P Gas" and "10" SAS".
- Streets and Locations:** "R.O.W.", "Campus Blvd.", "Bldg.", "Alley", "Sidewalk", "Water Meter", "Drive Pad", "Stop Sign", and "Manhole".
- Vertical Reference:** An "E" is marked vertically on the right side.
- Annotations:** Handwritten notes include "Asphalt" near the bottom center, "Edge of property" at the bottom left, and "8' 11 1/2" at the top right.

## LEGEND

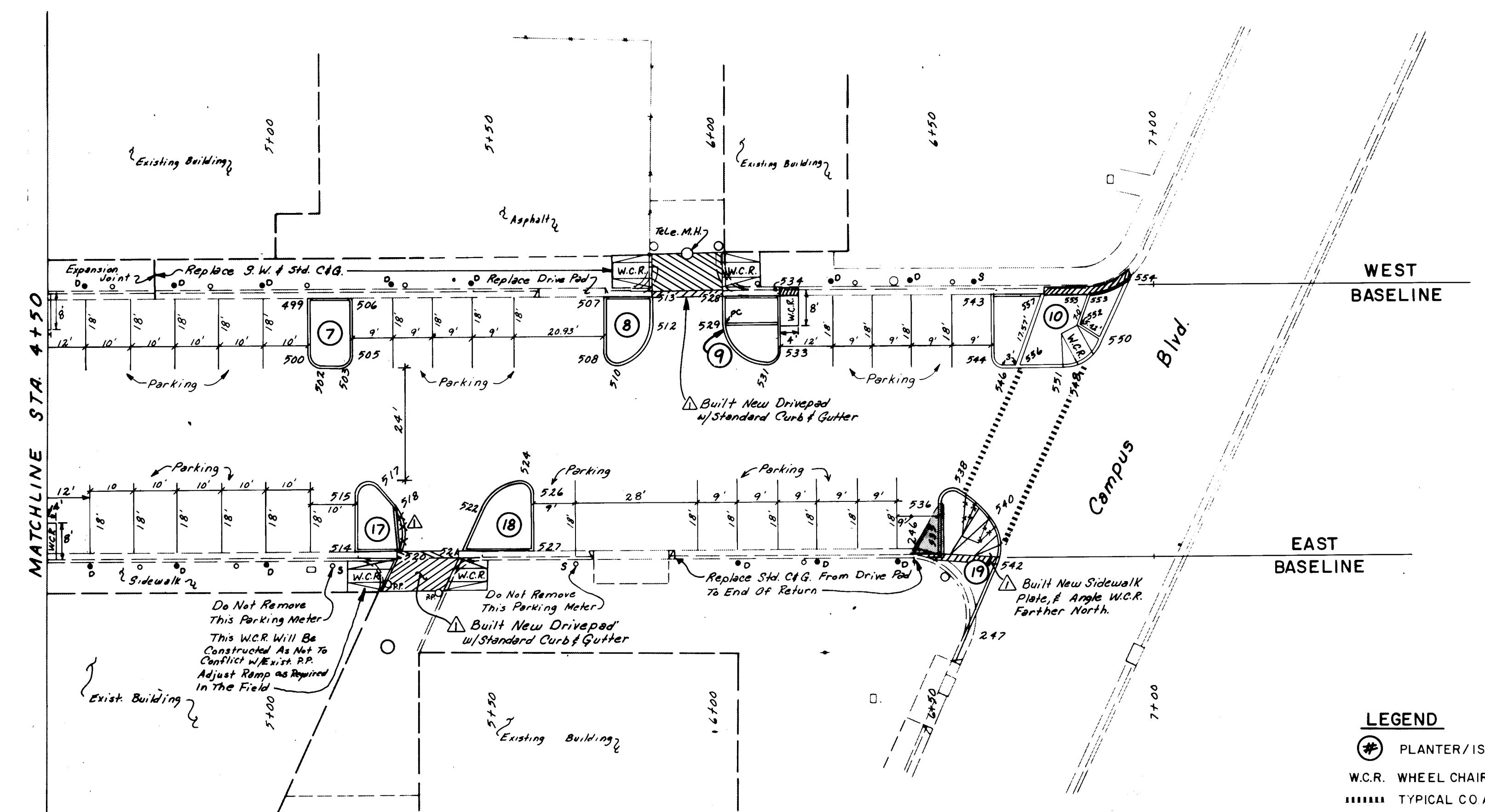
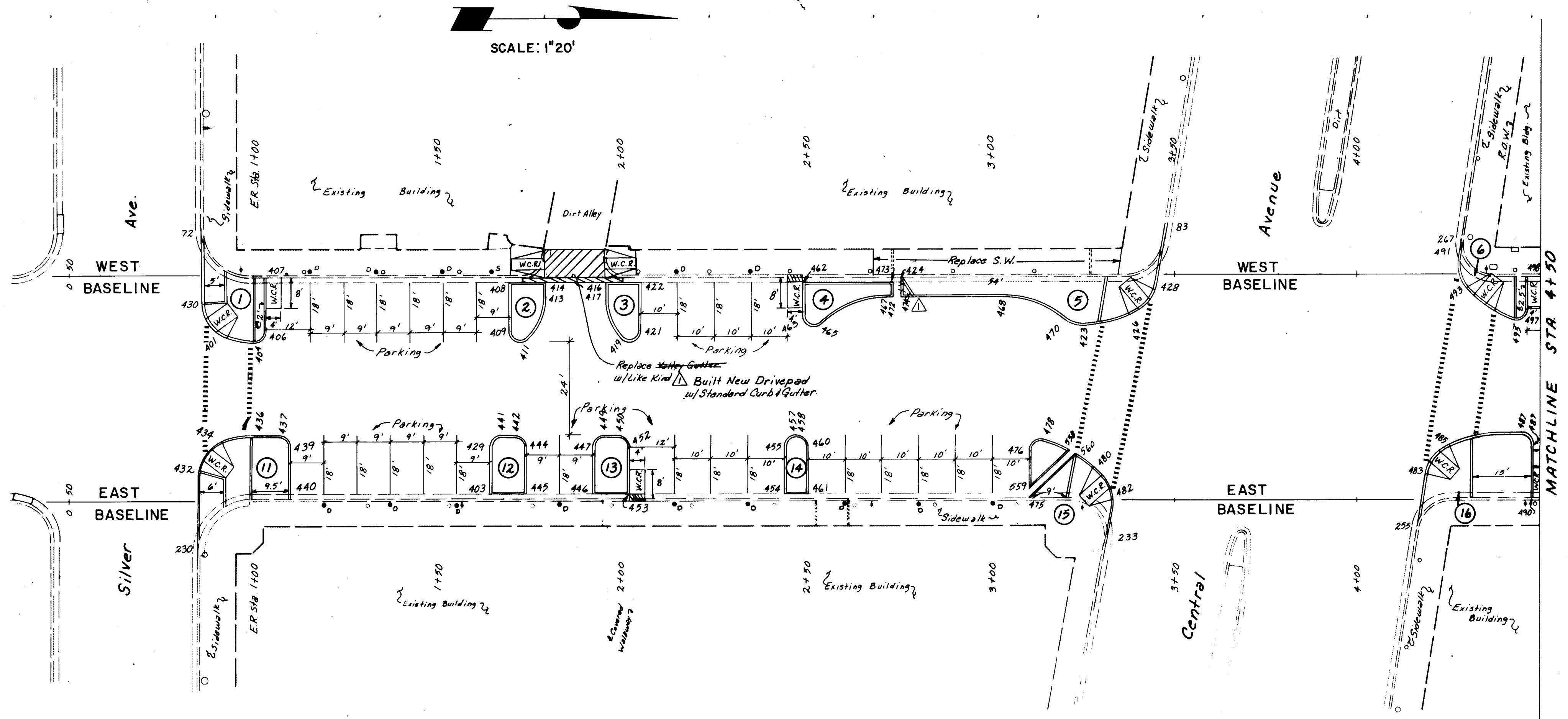
EXISTING	PROPOSED	FUTURE
-----○----- Sanitary Sewer Manhole	-----●-----	-----○-----
-----○----- Storm Drain Manhole	-----○-----	-----○-----
----- ----- Water Line (WL)	----- -----	----- -----
----- ----- Sanitary Sewer Line (SAS)	----- -----	----- -----
----- ----- Storm Drain Line (SD)	----- -----	----- -----
○----- Fire Hydrant	→-----	→-----
-----○----- Water Valve	-----○-----	-----○-----
□----- Water Service (Double)	-----■-----	-----■-----
□----- Water Service (Single)	-----■-----	-----■-----
E----- Sanitary Sewer Service	→-----	→-----
----- ----- Curb & Gutter	----- -----	----- -----
----- C.B. [ ] ----- Catch Basin	----- C.B. [ ] -----	----- C.B. [ ] -----
L.P. [ ] ----- Light Pole	L.P. [ ] -----	L.P. ○ -----
P.P. ○ ----- Power Pole	P.P. ● -----	P.P. ○ -----
P.M. ○ ----- Parking Meter	P.M. ● -----	P.M. ○ -----

# RECORD DRAWING

SITE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	Roger J. Shee	5/24/89	Liquid Waste	PEGO	5/27
ACE - Design	"	"	Traffic	Roger J. Shee	5/24
ACE - Hydrology	"	"	Water	PEGO	5/27

S.A. JOB NO. 983.11



**RECORD DRAWING**  
Date: 1-90

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0 6 3 7 8 9 0 4 9 0

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT

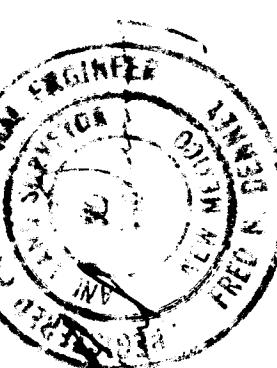
TITLE: AMHERST STREET IMPROVEMENTS  
STREET DEVELOPMENT PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	Robert Khan	5/23/89	Liquid Waste	PESO	5/23/89
A.C.E.-Design	"	"	Traffic	Robert Khan	5/24/89
A.C.E.-Hydrology	"	"	Water	PESO	5/23/89
DRAWING NO.	3789	MAP NO.	K-16	SHEET OF	4 8

**LEGEND**  
 # PLANTER/ISLAND No., FOR GEOMETRY SEE SHT. 5  
 W.C.R. WHEEL CHAIR RAMP, SEE DETAIL SHT.  
 TYPICAL CO A CROSSWALK STRIPING. SEE DETAIL SHEET  
 • NEW PARKING METER, o DOUBLE METER, s SINGLE METER  
 SHADeD AREA=2" FEATHERED ASPHALTIC CONG OVERLAY  
 SLOPED TO DRAIN INSTALL PRIOR TO PLACEMENT OF PINNED CURB.

**NOTES**  
 1. THE EAST AND WEST BASELINES, ARE ALONG THE BACK OF CURB.  
 2. ALL NEW CURB IS PINNED TYPE II CURB AS PER DETAIL SHT.

AS BUILT INFORMATION					
CONTRACTOR	WORK	INSP. BY	DATE	ACCEP.	DATE
				C.O.A.	5/23/89
				A.C.E.	5/23/89
				R.B.R.	5/24/89
				R.B.R.	5/24/89
				VERIFICATION BY R.B.R.	5/24/89
				VERIFICATION BY F.D.A.	5/24/89
				CORRECTED BY F.D.A.	5/24/89
				MICRO-FILM INFORMATION	DATE
				RECORDED BY	NO



AREA	PT	BEARING	DISTANCE	DELTA	RADIUS	ARC	TANGENT	STATION	OFFSET
1	72	East	21.04'					0+86.07	13.30' LT
	430			70° 31' 45"	10.00'	12.31'	7.07'	0+86.07	7.74' RT
	401			17° 42' 55"	25.00'	7.73'	3.90'	0+92.74	17.17' RT
	404			91° 45' 20"	3.00'	4.80'	3.09'	1+00.30	18.59' RT
	406	West	14.96'					1+03.40	15.59' RT
	407							1+03.40	0.63' RT
2	408	East	12.97'					1+69.40	2.63' RT
	409			131° 48' 35"	3.00'	6.90'	6.71'	1+69.40	15.60' RT
	411			48° 11' 25"	15.00'	12.62'	6.71'	1+74.40	17.84' RT
	413	West	4.03'					1+79.40	6.66' RT
	414							1+79.40	2.63' RT
	408	South	10.00'					1+69.40	2.63' RT
3	416	East	4.50'					1+95.73	2.63' RT
	417			44° 54' 00"	15.00'	11.75'	6.20'	1+95.73	7.13' RT
	419			135° 06' 00"	3.00'	7.07'	7.26'	2+00.10	17.72' RT
	421	West	12.97'					2+05.23	15.60' RT
	422							2+05.23	2.63' RT
	416	South	9.50'					1+95.73	2.63' RT

AREA	PT	BEARING	DISTANCE	DELTA	RADIUS	ARC	TANGENT	STATION	OFFSET
4	462	East	9.00'					2+49.23	2.63' RT
	463			134° 24' 55"	3.00'	7.04'	7.14'	2+49.23	11.63' RT
	465			44° 24' 55"	25.00'	19.38'	10.21'	2+54.33	13.77' RT
	467	North	2.00'					2+71.83	6.63' RT
	472	West	4.00'					2+73.83	6.63' RT
	473							2+73.83	2.63' RT
	462	South	24.60'					2+49.23	2.63' RT
5	424	East	6.00'					2+75.83	0.63' RT
	474	North	28.00'					2+75.83	6.63' RT
	468			41° 00' 15"	25.00'	17.89'	9.35'	3+03.83	6.63' RT
	470			43° 31' 40"	7.50'	5.70'	2.99'	3+20.23	12.76' RT
	423			25° 00' 30"	35.00'	15.28'	7.76'	3+25.48	14.60' RT
	426			53° 07' 50"	10.00'	9.27'	5.00'	3+40.12	10.67' RT
	428			N 80° 39' 45" W	12.07'			3+45.36	3.42' RT
	83							3+47.32	8.49' LT
6	267	S 81° 14' 55" E	4.86'					4+27.88	9.21' LT
	491			53° 07' 50"	10.00'	9.27'	5.00'	4+27.14	4.41' LT
	493			23° 48' 20"	35.00'	14.54'	7.38'	4+29.88	4.11' RT
	495			111° 49' 00"	3.00'	5.85'	4.43'	4+41.89	12.12' RT
	497	West	8.71'					4+46.00	9.34' RT
	498							4+46.00	0.63' RT

AREA	PT	BEARING	DISTANCE	DELTA	RADIUS	ARC	TANGENT	STATION	OFFSET
7	499	East	12.97'					5+08.00	2.63' RT
	500			90° 00' 00"	3.00'	4.71'	3.00'	5+08.00	15.60' RT
	502	North	4.00'					5+11.00	18.60' RT
	503			90° 00' 00"	3.00'	4.71'	3.00'	5+15.00	18.60' RT
	505	West	12.97'					5+18.00	15.60' RT
	506			10.00'				5+18.00	2.63' RT
	499							5+08.00	2.63' RT
8	507	East	12.97'					5+74.93	2.63' RT
	508			106° 36' 05"	3.00'	5.58'	4.02'	5+74.93	15.60' RT
	510			73° 23' 55"	10.00'	12.81'	7.45'	5+78.79	18.48' RT
	512	West	6.26'					5+85.93	8.89' RT
	513			11.00'				5+85.93	2.63' RT
	507							5+74.93	2.63' RT
9	528	East	5.97'					6+01.77	2.63' RT
	529			90° 00' 00"	10.00'	15.71'	10.00'	6+01.77	8.60' RT
	531			90° 00' 00"	3.00'	4.71'	3.00'	6+11.77	18.60' RT
	533	West	12.97'					6+14.77	15.60' RT
	534			13.00'				6+14.77	2.63' RT
	528							6+01.77	2.63' RT

AREA	PT	BEARING	DISTANCE	DELTA	RADIUS	ARC	TANGENT	STATION	OFFSET
10	543	East	12.96'					6+62.77	2.64' RT
	544			90° 00' 00"	3.00'	4.71'	3.00'	6+62.77	15.60' RT
	546	North	11.19'					6+65.77	18.60' RT
	551			5° 14' 30"	25.00'	2.29'	1.14'	6+76.96	18.60' RT
	548			60° 00' 00"	10.00'	10.47'	5.77'	6+79.24	18.50' RT
	550			N 65° 14' 30" W	14.72'			6+87.41	12.73' RT
	554			36° 42' 00"	16.59'	10.63'	5.50'	6+93.58	0.64' LT
	555							6+83.66	2.64' RT
	554			26° 12' 45"	16.59'	7.59'	3.86'	6+93.58	0.64' LT
	553			10° 29' 15"	16.59'	3.04'	1.52'	6+86.76	2.37' RT
	555	South	7.53'					6+83.66	2.64' RT
	557			13.36'				6+76.13	2.64' RT
	543							6+62.77	2.64' RT
	552							6+83.75	8.72' RT
	556							6+68.77	18.60' RT

AREA	PT	BEARING	DISTANCE	DELTA	RADIUS	ARC	TANGENT	STATION	OFFSET
11	230	N 89° 40' 35" W	22.36'					0+85.57	14.53' RT
	432			70° 31' 45"	10.00'	12.31'	7.07'	0+85.70</	

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- 1 -

This architectural landscape plan for Matchline Street shows the layout of trees, shrubs, and walkways. The plan includes labels for various plant species and their quantities, as well as markers for existing buildings and a scale.

**Scale:** 1" = 20'

**Labels and Features:**

- Plants:** MODESTO ASH (1), PARNEY COTONEASTER (2), DWARF NANDINA (8), DWARF NANDINA (9), DWARF NANDINA (11), DWARF NANDINA (16), PARNEY COTONEASTER (2), MODESTO ASH (1), PARNEY COTONEASTER (4), PARNEY COTONEASTER (2), DWARF NANDINA (9), MODESTO ASH (1), PARNEY COTONEASTER (2), DWARF NANDINA (6), LOWFAST COTONEASTER (2), PARNEY COTONEASTER (1), DWARF NANDINA (24), LOWFAST COTONEASTER (8).
- Buildings:** EDGE EXIST. BLDG., ALLEY, COVERED WALKWAY.
- Other:** MATCHLINE STREETSIDE.

A hand-drawn landscape plan diagram showing plantings along a building edge at Matchline STA 4+50. The diagram includes the following labeled elements:

- Top Left Area:** Labeled "EDGE EXIST. BLDG." with arrows pointing to the building line. Contains a circular planting bed with:
  - MODESTO ASH(1)
  - PARNEY COTONEASTER(2)
  - DWARF NANDINA(12)
- Middle Area:** Labeled "DWARF NANDINA(14)" with a circular planting bed containing:
  - KWANZAN CHERRY(1)
  - LOWFAST COTONEASTER (4)
- Top Right Area:** Labeled "EDGE EXIST. BLDG." with arrows pointing to the building line. Contains a circular planting bed with:
  - LOWFAST COTONEASTER(4)
  - DWARF NANDINA(4)
  - MODESTO ASH(1)
  - PARNEY COTONEASTER(2)
  - DWARF NANDINA(19)
- Bottom Left Area:** Contains two circular planting beds with:
  - DWARF NANDINA(16)
  - PARNEY COTONEASTER(3)
  - MODESTO ASH(1)
- Bottom Middle Area:** Contains a circular planting bed with:
  - KAWANZAN CHERRY (2)
  - LOWFAST COTONEASTER (7)
  - DWARF NANDINA(16)
- Bottom Right Area:** Shows a detailed view of a corner area with a curved wall and a triangular planter.

The vertical axis on the left is labeled "MATCHLINE STA 4+50".

PLANT LIST

BOTANICAL NAME	COMMON NAME	CAL. CONTAINER	MIN. SIZE
FRAXINUS VELUTINA 'MODESTO'	MODESTO ASH	2½" 30" BOX	10'Hx5'W
PRUNUS SERRULATA	KWANZAN CHERRY	1½" 20" BOX	7'Hx5'W
PYRUS CALLERYANA 'Bradford'	BRADFORD PEAR	2" 24" BOX	9'Hx4'W
COTONEASTER DAMMERI	LOWFAST COTONEASTER (Also known as Bearberry)	5 GAL.	
COTONEASTER PARNEYI	PARNEY COTONEASTER	5 GAL.	
NANDINA DOMESTICA 'Harbour Dwarf'	DWARF NANDINA	3 GAL.	

NOTE  
Do not remove the pavement or excavate planter #9B.  
Adjust manhole rim prior to curb installation. Install  
30 mil. PVC or industrial quality PE membrane to  
cover entire planter except manhole. Fill planter  
with 6" deep shredded bark mulch. Bark mulch and  
manhole rim to match grade.

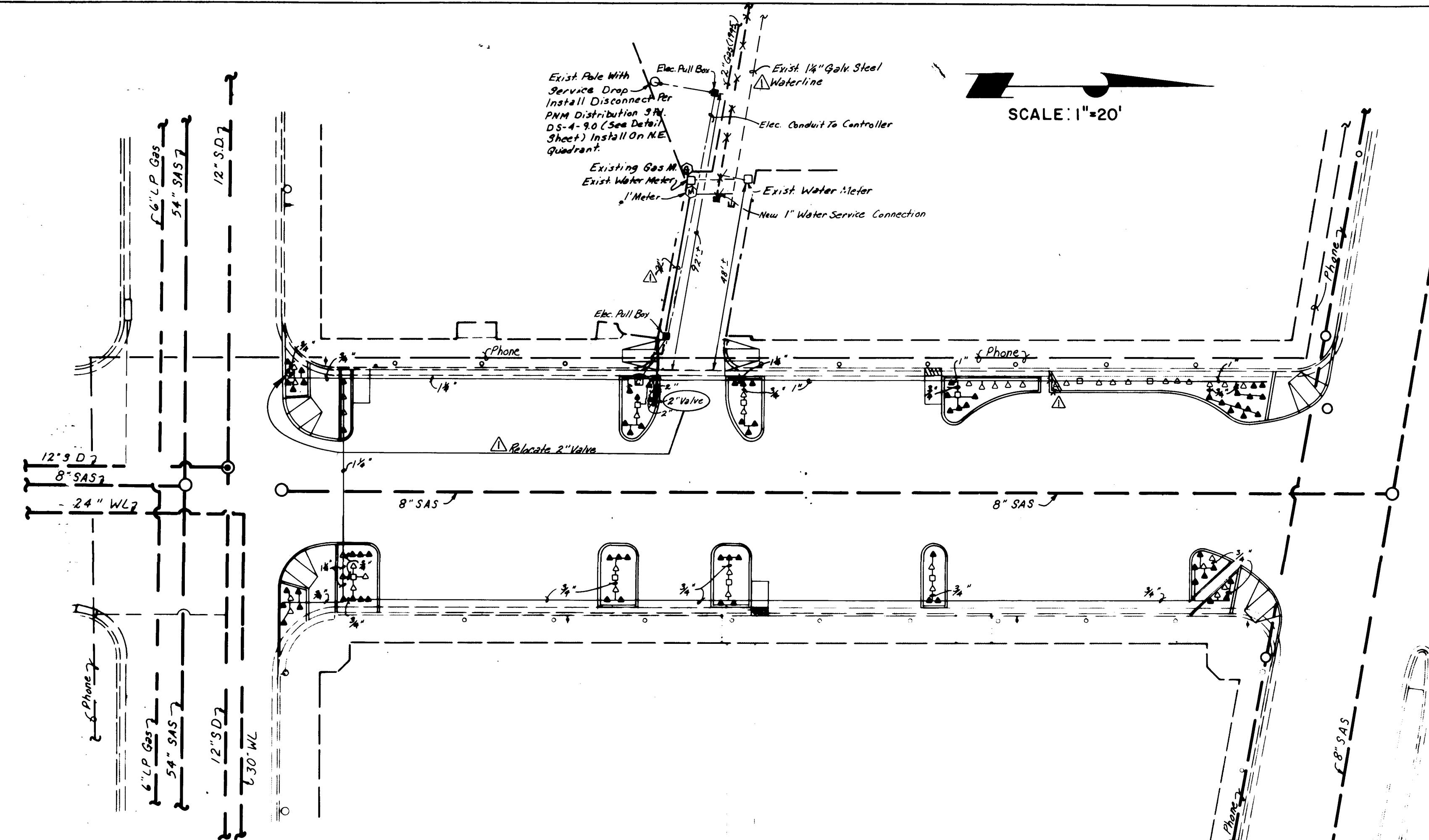
# RECORD DRAWING

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT

## THE AMHERST STREET IMPROVEMENTS

## LANDSCAPING PLAN

ROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
Engineer	Roger A. Ulmer	5/24/89	Liquid Waste	PE600	5/23/89
E - Design	"	"	Traffic	Roger A. Ulmer	5/24/89
- Hydrology	"	"	Water	PE600	5/23/89



SCALE: 1"=20'

## IRRIGATION NOTES FOR DESIGN/BUILD

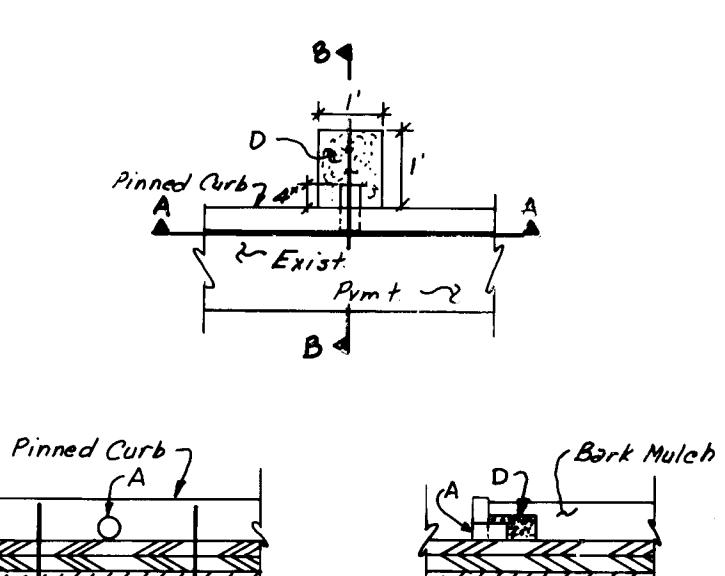
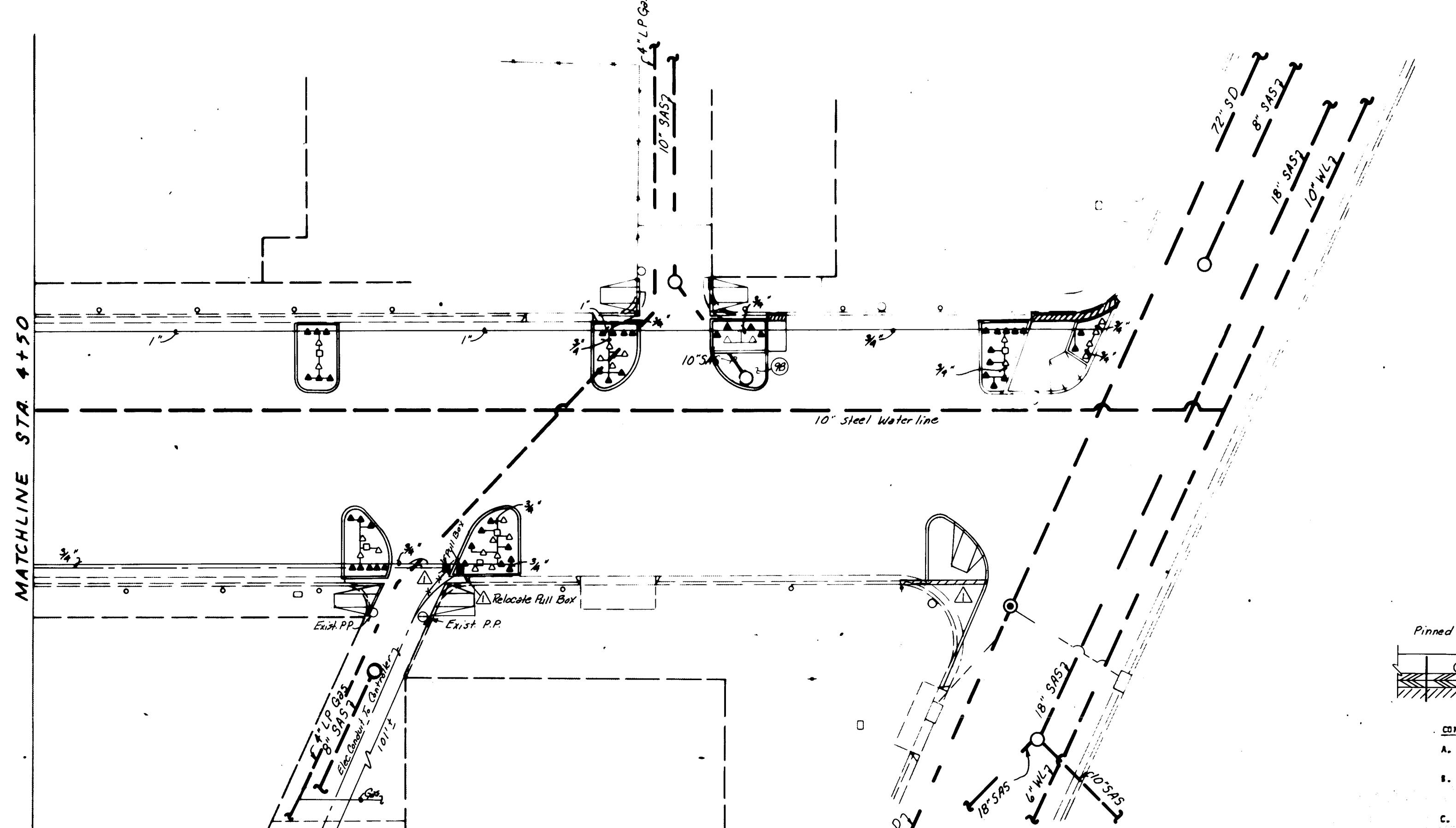
- Each valved system shall have a manual drain installed at the low point of the main line.
- All piping shall be sleeved under all pavement in 4" class 200 PVC pipe. Twenty-four volt wires shall be sleeved in 1" class 200 PVC pipe. Patch all cuts in asphalt.
- There shall be one 1-gpm bubbler for each shrub 12" from the center of each plant on the uphill side of the plant, and a 1-gpm bubbler for each tree, as close as possible to the rootball of the tree, on the uphill side, and a 1-gpm bubbler per 2-3 small shrubs placed in the center.
- All equipment shall meet those requirements found in the specifications and the Contractor shall provide all piping, valves, heads, drains, controllers and all other components, accessories and appurtenances required for a complete, operable system.
- Water meters shall be the responsibility of the Contractor.
- Trenching for the irrigation lines and controller power lines will be per the General Notes and detail on Detail Sheet 8.
- Plan locations of equipment is schematic. Locate in planters whenever possible.
- Install one king automatic drain in each planter. Slope Lines And Install at low End.

## CONSTRUCTION NOTES

- All planters shall be excavated to a depth of 3 feet from top of curb including bench at curb. Soil removed shall be deposited in a central location and shall not be reused in this or any other landscape project.
- All planters shall have a 30 mil PVC or 30 mil industrial quality PE membrane installed continuously at the back of curb and at the edge of concrete. Membrane shall extend over soil bench and to the bottom of the excavated pit. Adhere membrane to concrete according to manufacturer's specifications and recommendations.
- Prior to construction, the Contractor shall locate all existing underground utilities and existing lines will be the responsibility of the Contractor.
- Adjustments in layout of landscape features as required to meet variations between the plan dimensions/graphics and existing site features shall be made in the field under the supervision of the Engineer.
- The Landscape Contractor shall visit the site and analyze existing conditions and scope of work prior to bid.
- Access signs shall be supplied to all businesses by the Contractor. As directed by the Construction Coordinator signs shall be incidental to the Contract.

## PLANTING NOTES

- Backfill for islands shall be 3 parts sandy loam, free of rocks greater than 1" diameter, debris, vegetation and trash (sample shall be approved), and 1 part ground bark mulch. Compact combined fill to 85% density as determined by the Engineer.
- All planted areas of islands shall contain 4" deep shredded bark mulch.
- The Contractor is responsible for numbers of plants as shown on the plans.



## CONSTRUCTION NOTES

- DRAIN SCHEDULE 40 PVC, 23° 0.0°, SIZE DRILL CURE OPENING AT 2:1 I.D.
- DISTANCE FROM CENTERLINE OF DRAIN TO NEAREST JOINT VARIABLE WITH 18" MINIMUM.
- SLOPE 1" PER FOOT MINIMUM.
- ONE-INCH GRAVEL BACK FILTER WITH WIRE SCREEN.
- DRAINS TO BE PLACED AT EACH PLANTER AT LOWEST POINT OF ELEVATION AND POSITION DETERMINED IN FIELD BY SURVEY.

## CURB DRAIN DETAIL

## RECORD DRAWING

Date: 1-90

Curb Drain Detail

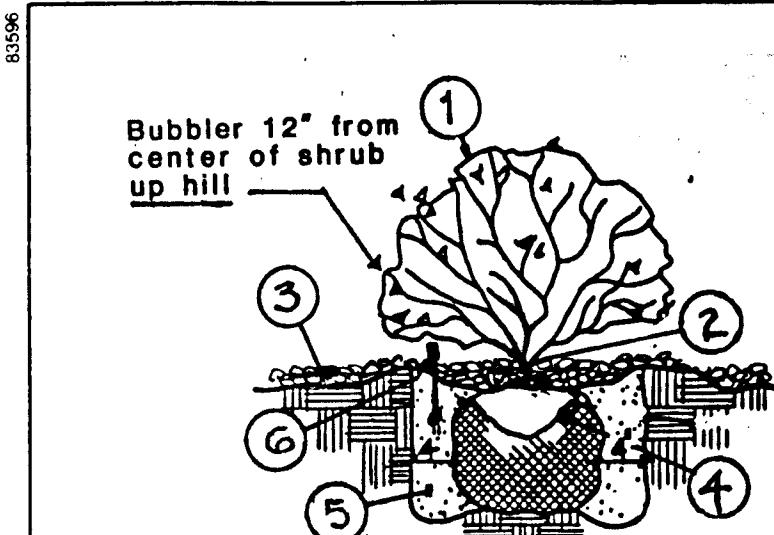
## CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

## TITLE: AMHERST STREET IMPROVEMENTS

## IRRIGATION PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	Roger Allen	6/24/89	Liquid Waste	REDO	6/23/89
A.C.E.-Design	"	"	Traffic	Roger Allen	6/24/89
A.C.E.-Hydrology	"	"	Water	REDO	6/23/89
DRAWING NO.	3789	MAP NO.	K-16	SHEET OF	7 8

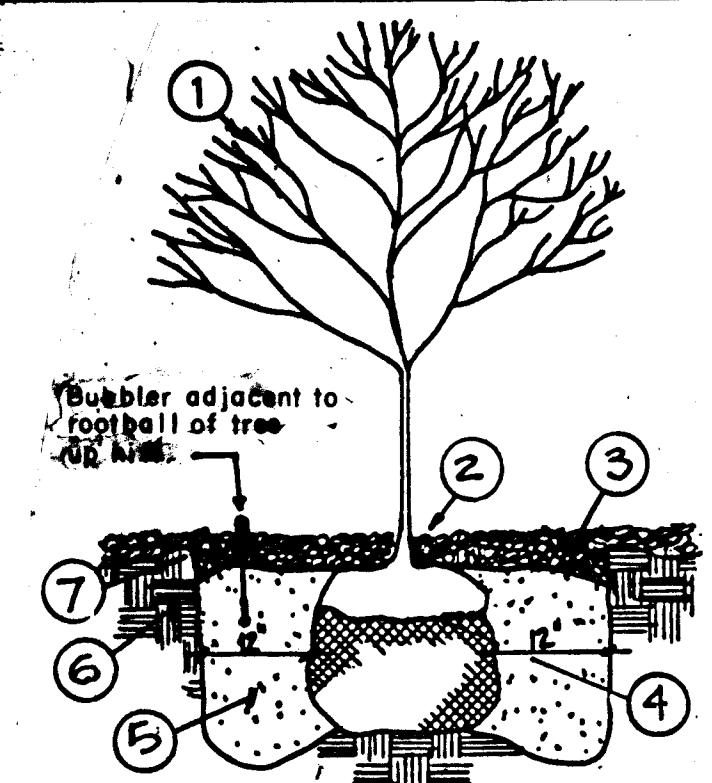
KEY  
X BI-1  
G-1 EU-1 NC-1NC-1  
EU-1  
B-1  
IG-1



- ① SHRUB LOCATION & SPECIES AS PER PLAN  
② PLANT AT SAME DEPTH AS IN NURSERY.  
③ 4" DEEP BARK MULCH THROUGHOUT PLANTER- EXCEPT IN EARTH SAUCER MULCH=2"  
④ REMOVE TOP OF BURLAP FROM ROOT BALL  
⑤ BACKFILL AND SOIL CONDITION-REF. SPECS.  
⑥ EARTH SAUCER-2" DEEP BARK MULCH WITHIN SAUCER.

### SHRUB PLANTING

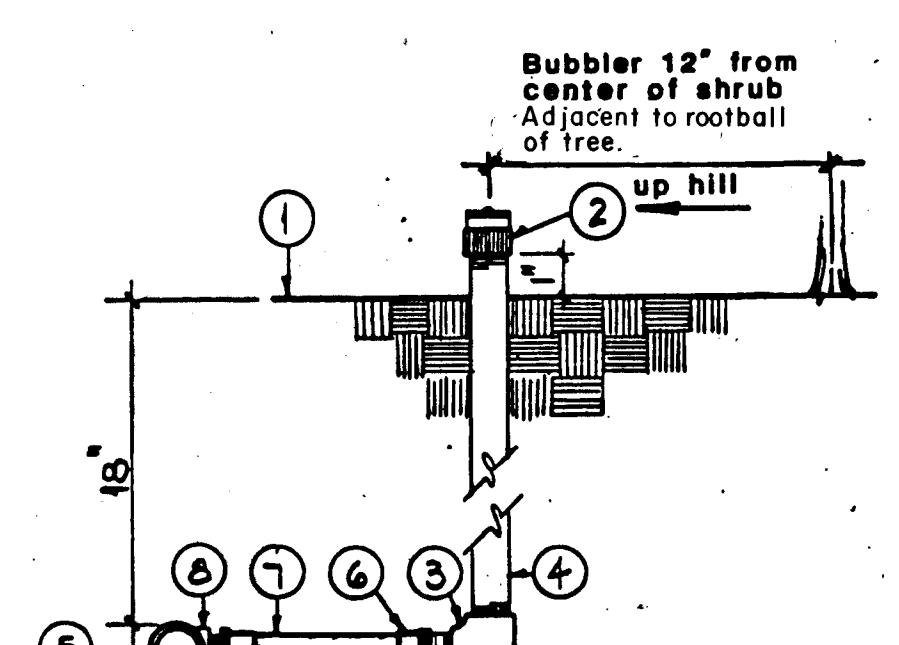
N.T.S.



- ① TREE LOCATION & SPECIES AS PER PLAN.  
② PLANT W/2" OF ROOT BALL ABOVE FLOOR OF BASIN W/2" OF BARK COVERING TOP OF BALL.  
③ 4" DEEP BARK MULCH THROUGHOUT PLANTER.  
④ REMOVE BASKET OR TOP / OF BURLAP FROM ROOTBALL.  
⑤ BACKFILL & SOIL AMENDMENT - REFERENCE SPECS.  
⑥ 85% COMPACTED FILL - REF: CONST. & PLANTING NOTES  
⑦ EARTH SAUCER

### TREE PLANTING

N.T.S.

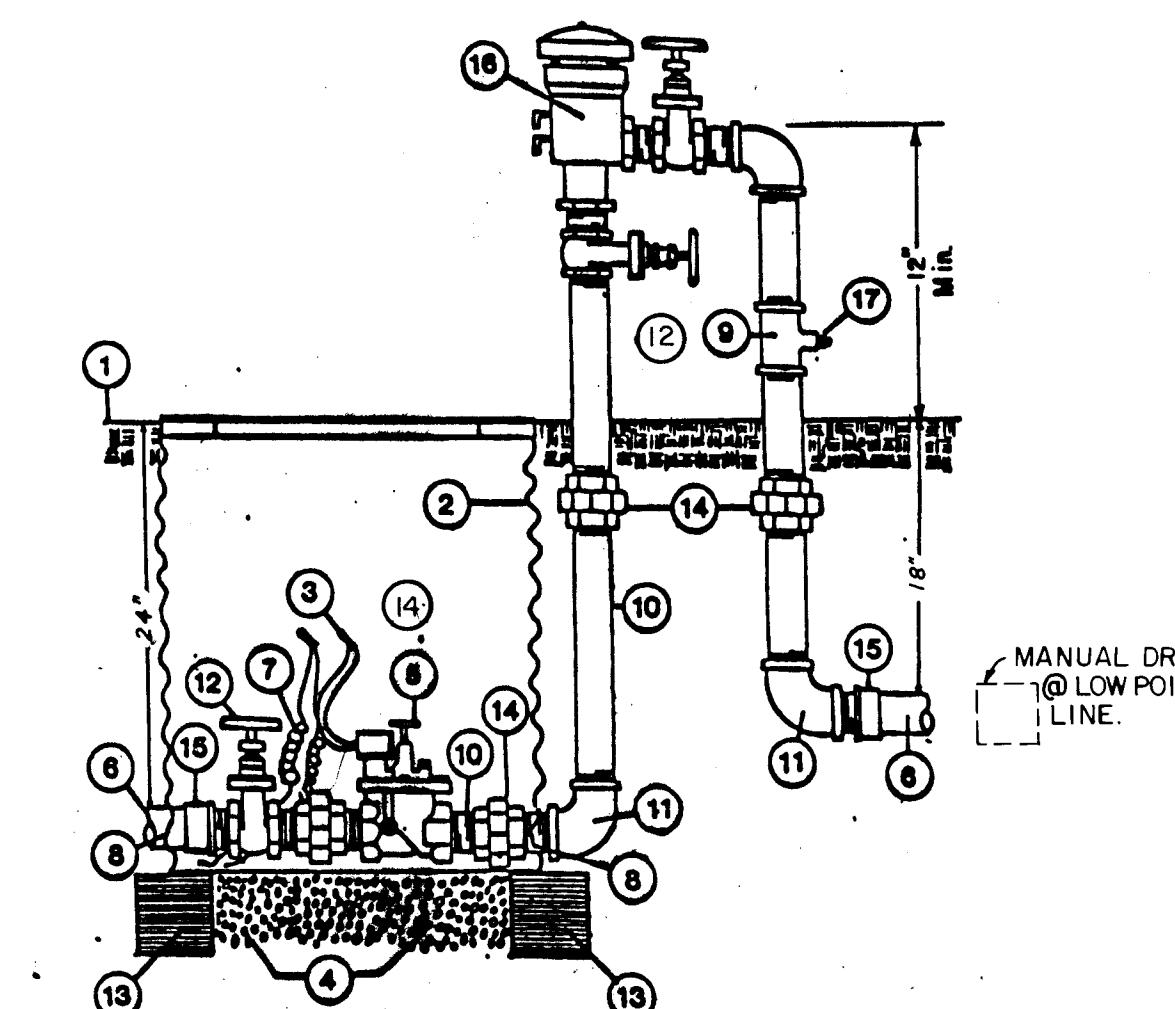


- ① TOP OF BARK  
② FLOOD BUBBLER, 1/4 G.P.M. ON TREES  
③ 4" DEEP BARK MULCH THROUGHOUT PLANTER  
④ REMOVE BASKET OR TOP / OF BURLAP FROM ROOTBALL.  
⑤ BACKFILL & SOIL AMENDMENT - REFERENCE SPECS.  
⑥ 85% COMPACTED FILL - REF: CONST. & PLANTING NOTES  
⑦ EARTH SAUCER

NOTE: LOCATE BUBBLER 12" FROM CENTER OF SHRUB AND 24" FROM CENTER OF TREE AND ON THE UP-HILL SIDE OF THE TREE OR SHRUB

### BUBBLER

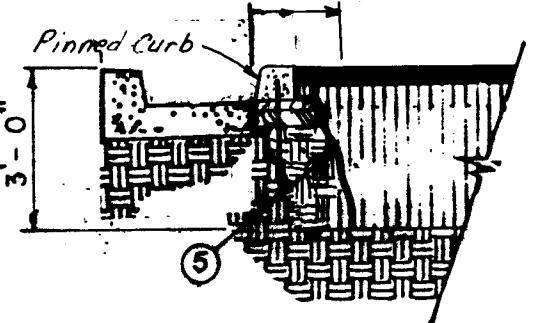
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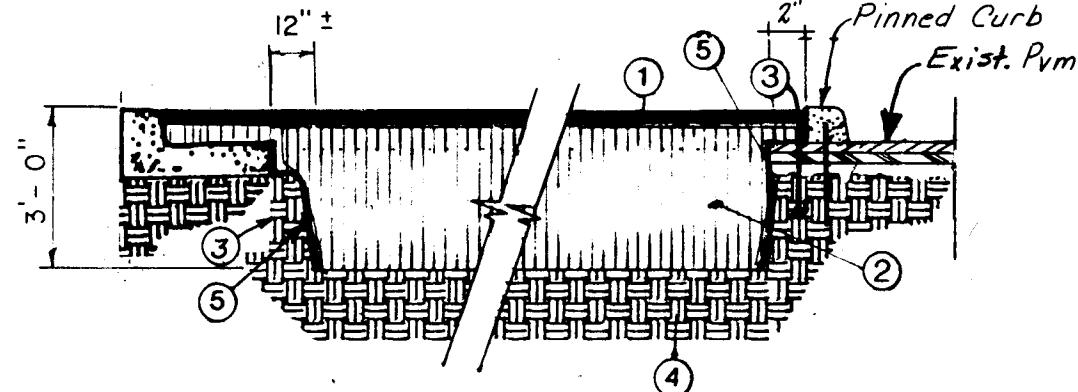
- ① FINISH GRADE  
② BASS & HAYS VALVE BOX 34 D  
③ NO. 3578 SCOTCH LOK CONNECTORS  
④ SCH. 40 PVC ELL  
⑤ SCH. 80 PVC RISER  
⑥ PVC LATERAL PIPING  
⑦ SCH. 40 PVC NIPPLE (12")  
⑧ PVC SWSX TEE  
⑨ PVC MIP ADAPTER  
⑩ PVC MALE ADAPTER  
⑪ GALV. TEE  
⑫ GALV. NIPPLE (TYPE)  
⑬ 36" WIRE EXPANSION COIL  
⑭ UNION  
⑮ PRESSURE VACUUM BREAKER  
⑯ AUTOMATIC DRAIN  
⑰ BRASS GATE VALVE  
⑱ PVC MAINLINE

### VALVE ASSEMBLY

N.T.S.



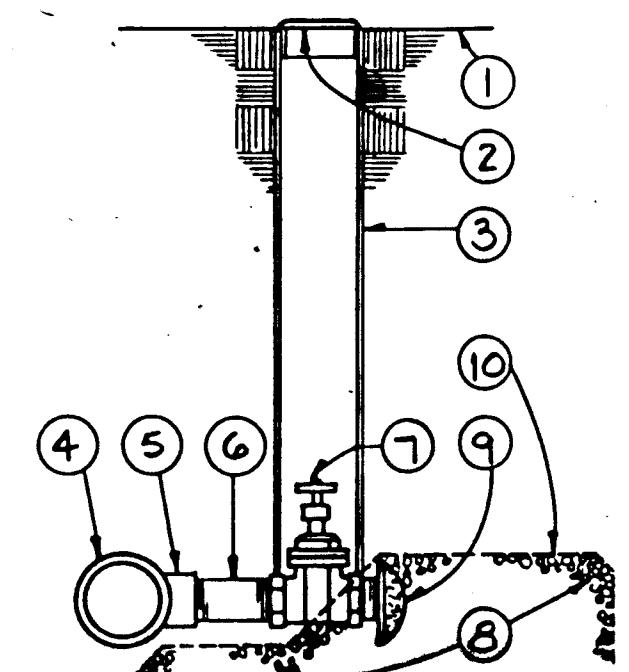
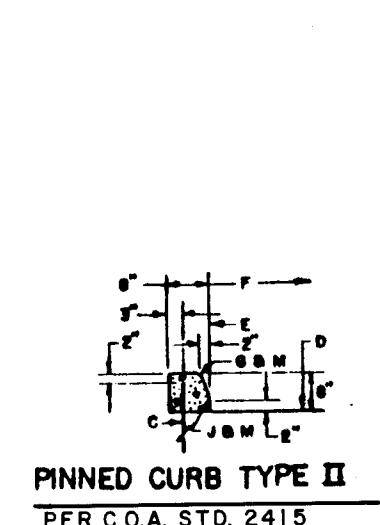
SECTION WHERE PINNED CURB SET AT LIP OF EXIST. C&G AND DOES NOT EXTEND TO FACE OF CURB.



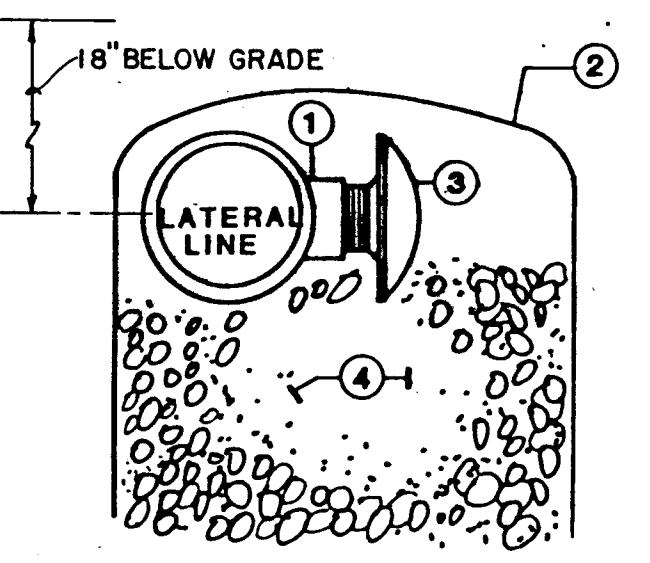
- ① 4" BARK MULCH  
② FILL: 3 PARTS SANDY LOAM / 1 PART HUMUS (GROUND BARK MULCH)  
③ UNDISTurbed SOIL BENCH - CLOSE TO 85° AS SOIL CONDITIONS WILL ALLOW  
④ UNDISTurbed SOIL  
⑤ 30 MILL PVC MEMBRANE, \*-CONTINUOUS-ADHERE TO CURB AND CONC. EDGE, EXTEND OVER BENCH TO BOTTOM OF EXCAVATION.  
\*OR 30 mil. industrial quality P.E. Membrane

### TYPICAL PLANTER SECTION

N.T.S.



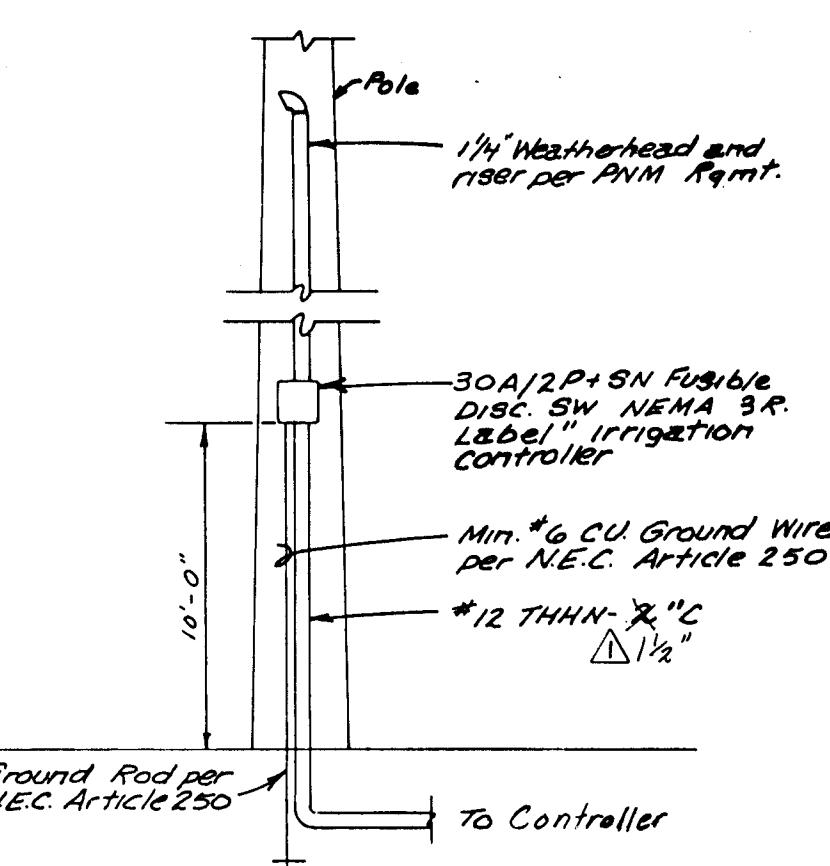
- ① TOP OF BARK  
② 2" LOCKING VALVE MARKER  
③ 2" CLASS 160 PVC  
④ MAINLINE  
⑤ TEE  
⑥ SCH. 80 PVC NIPPLE  
⑦ BRASS GATE VALVE W/ CROSS HANDLE  
⑧ 2 CU. FT. 1 1/2" DIAM. WASHED ROCK  
⑨ KING AUTOMATIC DRAIN (SEE DETAIL)  
⑩ TERRA BOND 1115 FILTER FABRIC



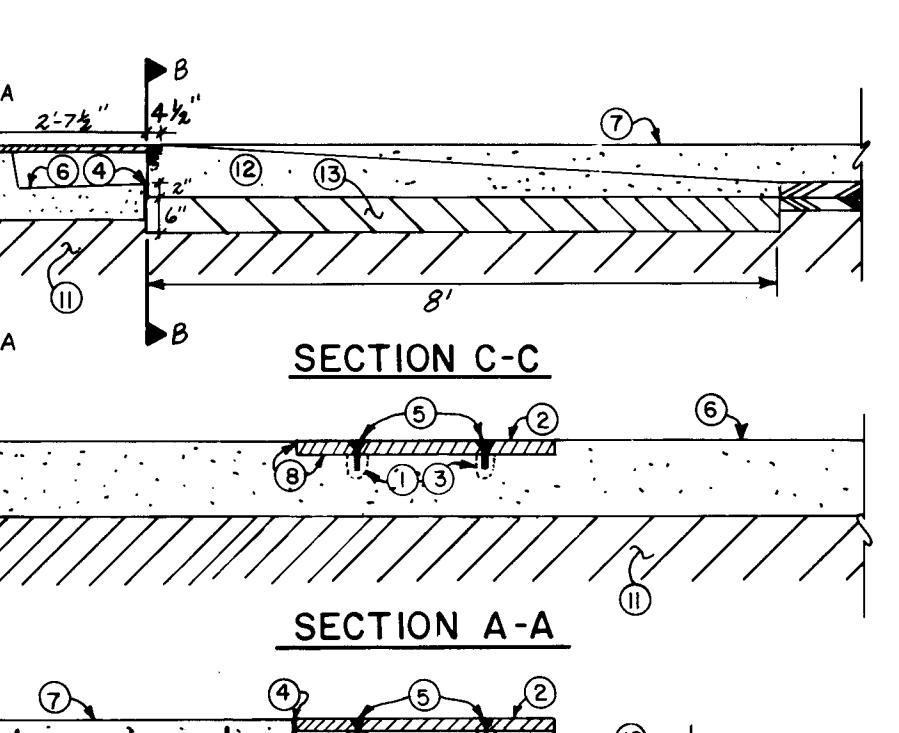
- ① PVC TEE SWSX  
② TERRA BOND 1115 FILTER FABRIC TOP & SIDES  
③ KING AUTOMATIC DRAIN  
④ 2 CU. FT. 1 1/2" DIAM. WASHED GRAVEL

### AUTOMATIC DRAIN

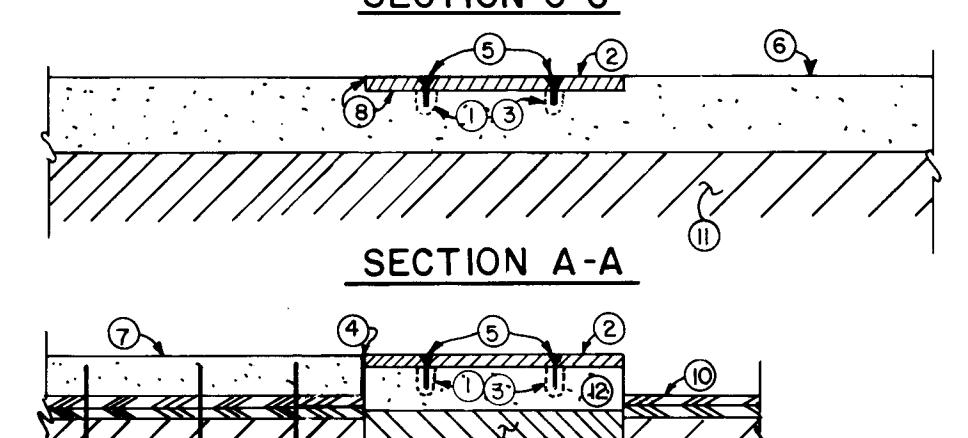
N.T.S.



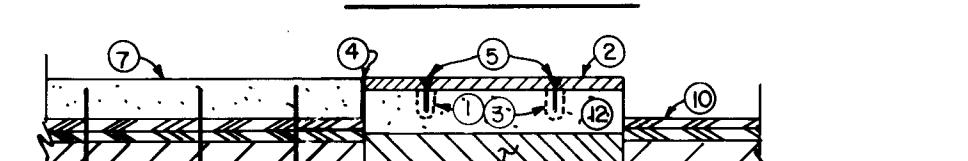
### POLE & POWER RISER FOR IRRIGATION CONTROLLER DIAGRAM



### SECTION C-C



### SECTION A-A



### SECTION B-B

