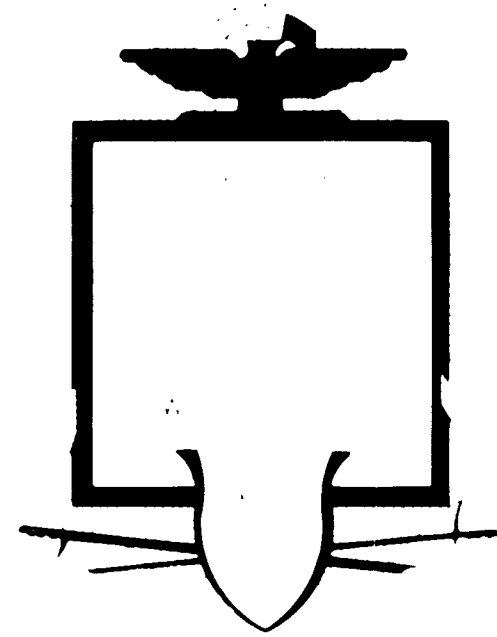
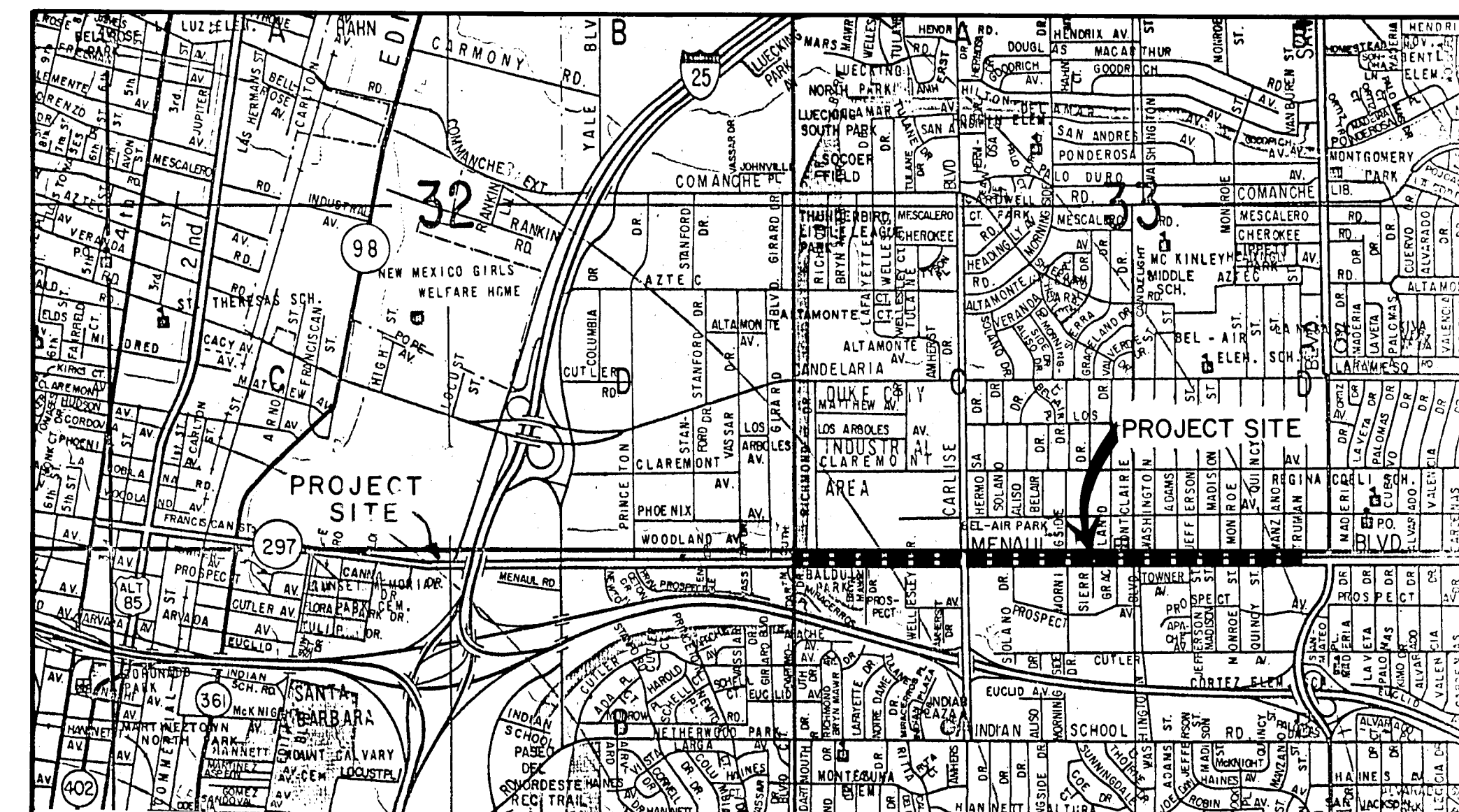




CITY OF ALBUQUERQUE, NEW MEXICO

MENAU BOULEVARD N.E. MEDIAN RECONSTRUCTION AND LANDSCAPING PHASE I



VICINITY MAP

SCALE: 1" = 2,000'

PROJECT LENGTH: 1.41 MILES

GENERAL NOTES:

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986.

REFERENCES MADE TO STANDARD DRAWINGS REFER TO CITY OF ALBUQUERQUE STANDARD DRAWINGS.

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 WILL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

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 ENGINEER.

CONTRACTOR SHALL PROVIDE 12" SUBGRADE PREPARATION UNDER ALL NEW PAVEMENT, CURBS & GUTTERS, VALLEY GUTTERS, AND CONCRETE FILLETS.

WHEN ABUTTING NEW PAVEMENT TO EXISTING, CUT BACK EXISTING PAVEMENT TO A NEAT STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT, AND MATCH NEW TO EXISTING. NO SEPARATE PAYMENT SHALL BE MADE FOR SUCH CUTTING OF EXISTING PAVEMENT BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. CUTTING OF PAVEMENT SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS.

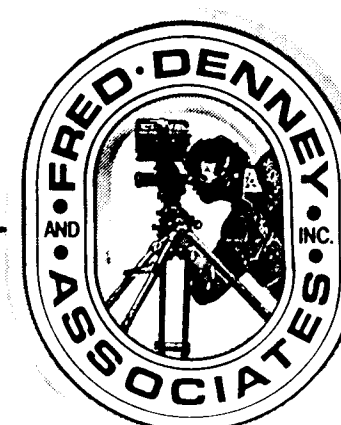
CURB & GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

WHEN CONSTRUCTION UNDER THIS PROJECT CONNECTS TO EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE AN EASY RIDING CONNECTION.

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.

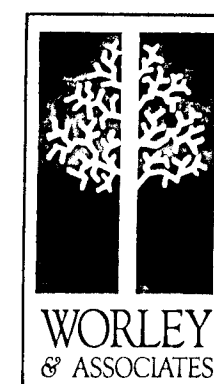
(SEE SHEET 2 FOR CONTINUATION OF GENERAL NOTES)

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
[Signature]
DATE 4-13-89



CONSULTING ENGINEERS • PLANNERS • SURVEYORS

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



KIRK J. WORLEY & ASSOCIATES P/A • LANDSCAPE ARCHITECTS & PLANNERS A.S.L.A.
2127 MENAUL BOULEVARD NORTHEAST • ALBUQUERQUE, NEW MEXICO 87107 • 505-864-4111

RECORD DRAWING

Date: 12-8-88

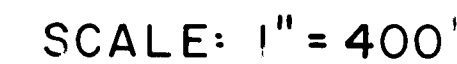
FRED DENNEY & ASSOCIATES, INC.

DRAWING
NO

5117

SHEET 1 OF 29

3115



GENERAL NOTES (CONTINUED FROM PAGE 1)

- Date: 12-8-88

F.D.A. JOB NO. 931.11

ITEM NO.	ITEM	UNIT	BID QUANTITY	FINAL QUANTITY
1-1	Grading, excavation and disposal of median within landscaped areas to a 3' depth, and provide clean fill	CY	2,150	2,014
1-2	Removal and disposal of existing asphalt pavement	SY	1,020	1,313
1-3	Removal and disposal of concrete curb and gutter, any type	LF	1,200	1,197
1-4	Sawcut, removal and disposal of concrete median, pavement and sidewalk	SY	950	370
1-5	Removal and disposal of street light bases	EA	33	33
1-6	New street light bases, complete in place, including hardware	EA	61	61
1-7	Grading of roadway, including 12" subbase preparation	SY	1,650	1,480
1-8	ATB, 4" thick, 1100 lb. stability, complete in place	SY	1,650	1,747
1-9	ACBC, 2½" thick, 1800 lb. stability, complete in place	SY	1,650	1,747
1-10	ACSC, 1½" thick, 1800 lb. stability, complete in place	SY	1,650	1,747
1-11	Emulsified asphalt tack coat, complete in place	SY	1,650	1,879
1-12	ACBC, 1½" thick, 1800 lb. stability, complete in place	SY	350	132
1-13	ACSC, 1½" thick, 1500 lb. stability, complete in place	SY	350	0
1-14	4" Portland Cement Concrete sidewalk, complete in place, including subgrade preparation	SF	1,000	422
1-15	Concrete median pavement, 4" thick, red colored and patterned, complete in place, including subgrade preparation	SF	20,410	19,058
1-16	Portland Cement Concrete standard curb and gutter, complete in place, including 12" subgrade preparation	LF	60	0
1-17	Portland Cement Concrete median curb and gutter, complete in place, including subgrade preparation	LF	1,079	1,231
1-18	Construction signing, complete in place, in conformance with Section 19, C.O.A. Standard Specifications for Traffic Control and Signing	LS	1	1
1-19	2" Electrical conduit, complete in place, including trenching and backfill	LF	2,333	2,299
1-19A	3" Electrical Conduit	LF	582	
1-20	2" Traffic interconnect conduit, complete in place, including trenching and backfill	LF	6,675	6,408
1-21	Traffic pull boxes	EA	31	32
1-21A	Traffic pull boxes, Large	EA	1	1
1-22	Traffic Manholes	EA	6	6

ITEM NO.	ITEM	UNIT	BID QUANTITY	FINAL QUANTITY
1-23	Removal and disposal of catch basins, any style, including cleanup	EA	2	2
1-24	Removal and disposal of signal pedestal foundation	EA	2	2
1-25	Removal and disposal of street drain lines, any size, including excavation, backfill and compaction	LF	36	6
1-26	Type "C" catch basins, single grate, complete in place	EA	2	2
1-27	Pull boxes, complete in place	EA	5	2
1-28	New water service, 1", including tap, line, meter and appurtenances, per Standard Detail	EA	1	0
1-29	New water service, 1½", including tap, line, meter and appurtenances, per Standard Detail	EA	2	3
1-30	New signal post foundation, Type II, complete in place	EA	2	3
1-31	Portland Cement Concrete header curb, complete in place, including 8" subgrade preparation	LF	200	142
1-32	New RCP for catch basin, 18" RCP, complete in place, including backfill, trenching and compaction	LF	60	36
1-33	4" P.V.C. sleeves, complete in place	LF	3,020	2,955
1-34	Bark mulch, 4" depth, complete in place	SF	21,800	18,126
1-35	Irrigation system, including heads, zone controllers, control valves, vacuum breakers, valve boxes, control housing units, automatic drain valves, freeze sensors, electrical and waterline, and all appurtenances necessary for a functional system complete in place	LS	1	1
1-36	Prunus cerasifera 'Thundercloud' (Flowering Plum), 1½" cal., 20" box, 8'H x 5'W, complete in place	EA	6	6
1-37	Pyrus calleryana 'Bradford' (Flowering Pear) 1½" cal., 20" box, 8'H x 4'W, in place	EA	31	31
1-38	Fraxinus pennsylvanica 'Marshall' (Marshall Seedless Ash) 2" cal., 24" box, 9'H x 6'W, complete in place	EA	5	5
1-39	Fraxinus velutina 'Modesto' (Modesto Ash) 2" cal., 24" box, 10'H x 5'W, complete in place	EA	13	13
1-40	Gleditsia triacanthos inermis 'Shademaster' (Shademaster Honey Locust) 2" cal., 24" box, 10'H x 5'W, complete in place	EA	10	10
1-41	Berberis gladiwynenses 'Wm. Penn' (William Penn Barberry) 5 gal., 48" o.c., complete in place	EA	106	106
1-42	Cotoneaster horizontalis (Rock Cotoneaster) 5 gal., 48" o.c., complete in place	EA	213	215

ITEM NO.	ITEM	UNIT	BID QUANTITY	FINAL QUANTITY
1-43	Lagarstromia sp. (Crepe Myrtle "Watermelon Red") 5 gal., 60" o.c., complete in place	EA	20	20
1-44	Juniperus sabina 'Broadmoor' (Broadmoor Juniper) 5 gal., 60" o.c., complete in place	EA	262	245
1-45	Juniperus sabina 'Buffalo' (Buffalo Juniper) 5 gal., 48" o.c., complete in place	EA	142	146
1-46	Electrical tap to controllers, complete in place	EA	3	3
1-47	10 mil. plastic PVC membrane vapor barrier with adhesive, complete in place	LF	2,950	2,905
1-48	2" Galvanized steel pipe conduit, complete in place, including bridge hanging with hardware	LF	500	514
1-49	Removal and salvage of wooden poles as shown on the construction drawings	EA	7	7
1-50	Project Construction signs, complete in place	EA	2	2
1-51	Large pull boxes, complete in place	EA	8	9
	ALTERNATE ADDITIVE "A"			
A-1	1/2" Nominal Cold Mill Bituminous Surface	SY	16,000	15,181
A-2	Bituminous Reinforcement Fabric	SY	16,000	15,181
A-3	1/2" A.C. 20 Inlay	SY	16,000	15,181
A-4	5/8" Plant Mix Seal Coat	SY	16,000	15,181
A-5	Adjust Man Hole Frames To Grade	EA	11	12
A-6	Adjust Water Valve To Grade	EA	3	2
A-7	Traffic Control	LS	1	1
	ALTERNATE ADDITIVE "B" Δ NOT DONE			
B-1	5/8" Plant Mix Seal Coat Δ NOT DONE	SY	38,900	N/A
B-2	Traffic Control Δ NOT DONE	LS	1	N/A
	CHANGE ORDERS			
1-a	DUPLEX RECEPTACLES	LS	0	1
1-b	MEDIAN DRAINS	LS	0	1
1-c	AMAFCA PLANTERS	LS	0	1
1-d	FLEX NIPPLE REPLACEMENT	LS	0	1
1-e	CRACK SEALING	LS	0	1
1-f	TYPE II FOUNDATIONS	LS	0	1
2-a	TRAFFIC SIGNALS & ASSOCIATED ITEMS, 3" CONDUIT	L.F.	0	113
2-b	MADEIRA DRIVE MEDIAN MODIFICATIONS	LS	0	1
2-c	OVERLAY, CARLISLE PROJECT 3129 INCLUSION	LS	0	1
2-d	LANDSCAPE VAPOR BARRIER, EDGE PREPERATION	L.F.	0	146
Δ	3" BORED CONDUIT	L.F.	0	568
Δ	WASHINGTON DRIVE PAD	S.F.	0	216

[illegible]

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

**TITLE: MENAUL BOULEVARD NE.
MEDIAN RECONSTRUCTION & LANDSCAPING
QUANTITY SHEET**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4.6.88	Liquid Waste	PEBO	3/14/88
A C E - Design	<i>[Signature]</i>	"	Traffic	<i>[Signature]</i>	4.6.88
A C E - Hydrology	<i>[Signature]</i>	3/5/88	Water	PEBO	3/14/88

DRAWING NO.	3117	MAP NO.	SHEET 3 OF 29
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- LEGEND**
(EXISTING)

- PROPOSED**

**TITLE: MENAUL BOULEVARD NE.
MEDIAN RECONSTRUCTION & LANDSCAPING
RECONSTRUCTION PLAN**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4-6-88	Liquid Waste	<i>[Signature]</i>	3/14/88
A C E - Design	<i>[Signature]</i>	"	Traffic	<i>[Signature]</i>	4-6-88
A C E - Hydrology	4/6 <i>[Signature]</i>	3/5/88	Water	<i>[Signature]</i>	3/14/88
<i>[Signature]</i>	<i>[Signature]</i>	3/11/88			

DRAWING NO

3117

MAP NO.

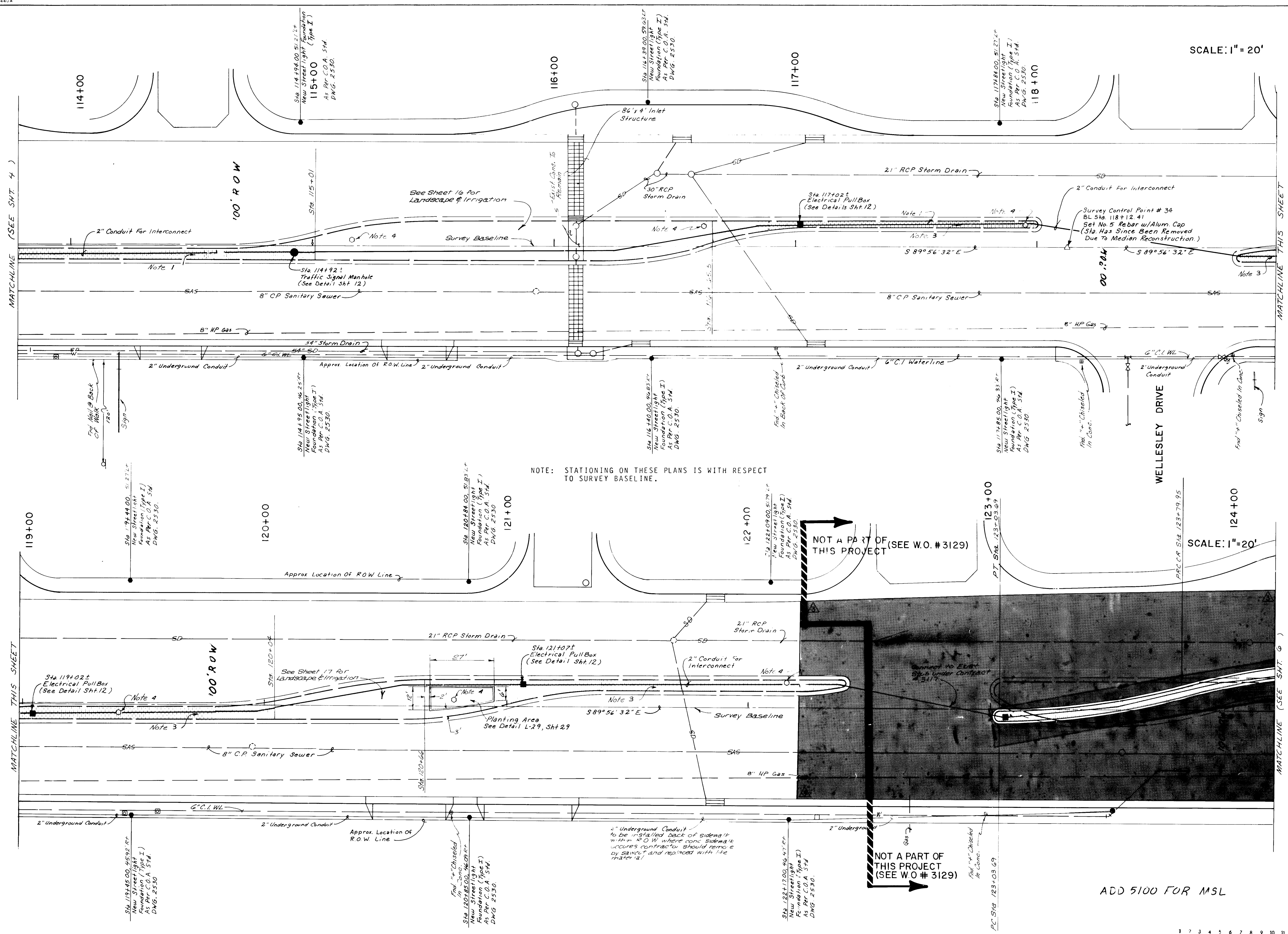
H-16

SHEET

4

OF

29



SCALE: 1" = 20'

MATCHLINE THIS SHEET

MATCHLINE THIS SHEET

1. REMOVE MEDIAN PAVEMENT (CONCRETE OR ASPHALT).
2. REMOVE EXISTING AND BUILD NEW MEDIAN CURB & GUTTER WITH EXPANSION JOINTS. (CITY STANDARDS BRANING 2415.1)
3. NEW MEDIAN CONCRETE PAVEMENT, RUNNING BOND BRICK PATTERNED. (SEE DETAIL SHEET 12.)
4. CONSTRUCT NEW STREET LIGHT FOUNDATIONS AS INDICATED. PNM WILL RELOCATE POLES AND LIGHTS WHEN NEW FOUNDATIONS ARE COMPLETE. CONTRACTOR SHALL THEN REMOVE AND DISPOSE OF EXISTING STREET LIGHT FOUNDATIONS. BASE HOLES SHALL THEN BE BACKFILLED AND COMPACTED TO 95% DENSITY (ASTM D-1557). ENTIRE CIRCUIT MUST BE READY FOR RELOCATION AT ONE TIME IN ORDER THAT ROADWAY WILL REMAIN LIGHTED DURING CONSTRUCTION.
5. ALL MEDIAN AREAS TO BE PLANTED SHALL BE EXCAVATED TO A DEPTH OF 3" FROM TOP OF CURB, EXCLUDING BENCH AT CURB. (SEE DETAIL SHEET 29.) SOIL REMOVED SHALL BE DISPOSED OF IN AN ENGINEER-APPROVED LANDFILL AND SHALL NOT BE REUSED IN THIS OR ANY OTHER LANDSCAPE PROJECT.
6. WHEN REMOVING CURB & GUTTER ADJACENT TO EXISTING PAVEMENT ANY DAMAGE TO PAVEMENT OUTSIDE LIP OF CURB & GUTTER SHALL BE REMOVED AND REPLACED AT CONTRACTOR EXPENSE.
7. ALL PAVEMENT CUTS SHALL BE ALONG HEAT STRAIGHT LINES. WHEN CURB & GUTTER IS REMOVED, A MINIMUM OF 1" OF PAVEMENT SHALL BE REMOVED.
8. ALL 2" ELECTRICAL CONDUIT (FOR INTERCONNECT CONTROL WIRING) SHALL BE SCHEDULE 40 PVC. LOCATIONS SHALL BE APPROXIMATE. FINAL PLACEMENT TO BE FIELD VERIFIED.
9. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY LINES. DAMAGE TO EXISTING LINES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. PNM TO RELOCATE POLES AND LIGHTS WHEN NEW FOUNDATIONS ARE COMPLETE.
11. WHERE STREET LIGHT FOUNDATIONS ARE INDICATED AT BACK OF SIDEWALK, BACK EDGE OF FOUNDATION SHALL BE PLACED AT BACK EDGE OF SIDEWALK. WHERE FOUNDATIONS ARE INDICATED AT BACK OF CURB, FRONT EDGE OF FOUNDATION SHALL BE PLACED AT BACK EDGE OF CURB.
12. ALL MEDIANS SHALL HAVE A 10 MIL PVC 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. WHERE MEMBRANE TO CONCRETE ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. SEE DETAILS K29BLC9.
13. SHOULD CONSTRUCTION ON THIS PROJECT TAKE OVER ONE DAY TO ACCOMPLISH, PLACING OF THE TRENCH OR TEMPORARY ASPHALT CONCRETE PAVEMENT SHALL BE PROVIDED AT THE END OF EACH WORKING DAY PLATES CAN BE OBTAINED FROM THE C.O.A. YARD ON PHO BY COORDINATING WITH RICK ROYAL AT 768-2531. PLATING WILL BE AT NO ADDITIONAL COST TO THIS CONTRACT.
14. PAVEMENT REPLACEMENT WILL CONFORM TO PAVEMENT SECTION DETAILS ON SHEET 12.
15. COORDINATE LOCATIONS OF TRAFFIC SIGNAL FOUNDATIONS WITH TRAFFIC OPERATIONS @ 764-1599. THREE WORKING DAYS PRIOR TO INSTALLATION.

LEGEND (EXISTING)

- ANCHOR BOLT w/ GUY WIRE
- POWER POLE
- TELEPHONE PEDESTAL, ELECTRIC BOX, ETC.
- WATER METER
- FIRE HYDRANT
- SANITARY SEWER
- MANHOLE (SANITARY, STORM OR TELEPHONE) FIELD VERIFIED
- EXIST. C & G (MEDIAN)
- SIGN (YIELD, STOP, ETC.)
- TREE
- CHAIN LINK FENCE
- GAS LINE
- LIGHT POLE
- TRAFFIC SIGNAL
- PULLBOX
- WATER VALVE
- WATERLINE
- STORM DRAIN
- MANHOLE (PER C.O.A. ATLAS) NOT FIELD VERIFIED
- SURVEY CONTROL POINT (ADVERTISEMENT)
- DROP INLET
- SPOT ELEVATION

(PROPOSED)

- LIGHT FOUNDATION
- TRAFFIC MANHOLE
- ELECTRICAL PULLBOX
- PC STA. 15+70
- TC, FL
- MEDIAN C & G WITH PATTERNED CONC. PVM/T.

MEDIAN RECONSTRUCTION FACE-OF-CURB DATA

1.	Δ = 179°41'16"
	PC = 2.69'
	T = 8.43'
	TC = 986.49'
2.	Δ = 16°15'37"
	PC = 150.00'
	T = 45.57'
	TC = 21.43'

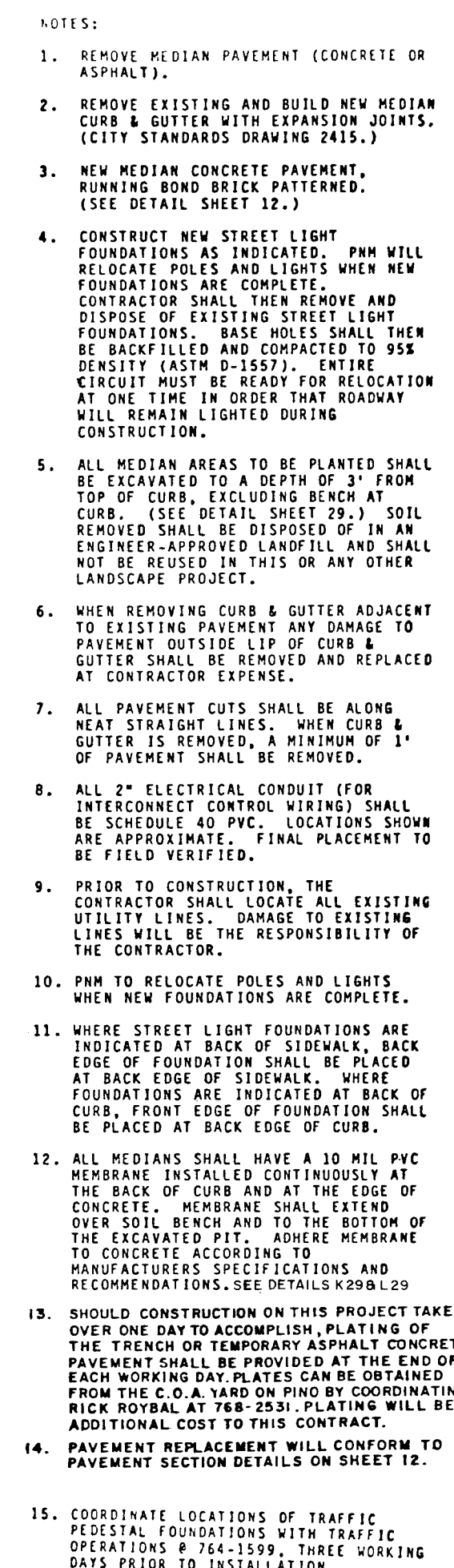
SHADED AREA IS MILL & OVERLAY w/FABRIC INCLUDED, ADDED UNDER CHANGE ORDER NO. 2, FROM C.O.A. W.O. # 3129

26 3117 0589

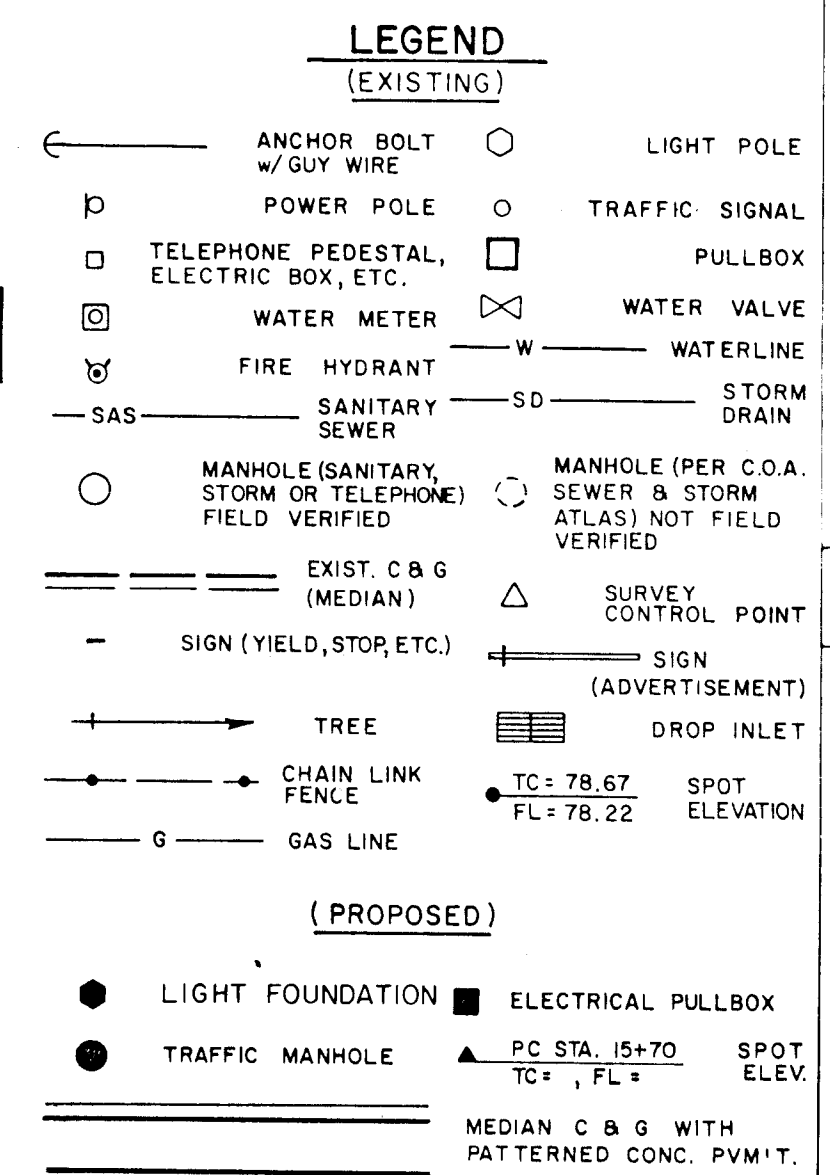
12-8-88

CITY OF ALBUQUERQUE			
PUBLIC WORKS DEPARTMENT			
TITLE: MENAUL BOULEVARD NE. MEDIAN RECONSTRUCTION & LANDSCAPING RECONSTRUCTION PLAN			
APPROVALS	ENGINEER	DATE	APPROVALS
City Engineer	<i>[Signature]</i>	4/6/88	Liquid Waste
A.C.E. Design	<i>[Signature]</i>	4/6/88	Traffic
A.C.E. Hydrology	<i>[Signature]</i>	4/6/88	Water
DRAWING NO.	3117	MAP NO.	H-16
SHEET 5		OF 29	

DESIGNED BY JJ DATE
DRAWN BY TJM/ELO DATE
CHECKED BY FND DATE

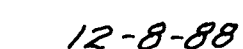


SEE W.O. # 3129



26 31170689

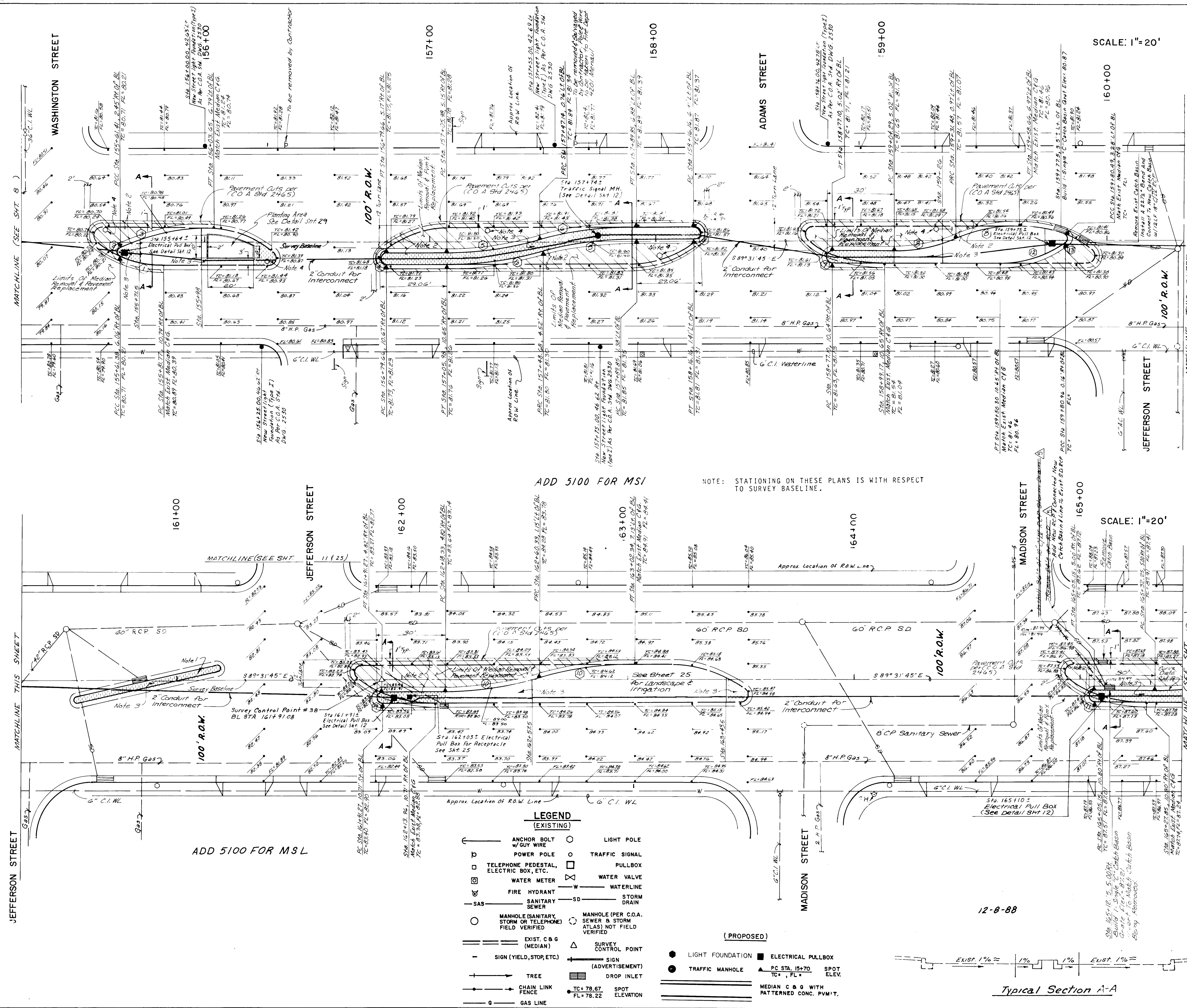
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SCALE: 1"=20'

- | <u>LEGEND</u> | | | |
|--|----------------------------|----------------------------|--|
| <u>(EXISTING)</u> | | | |
| — | ANCHOR BOLT
w/ GUY WIRE | ○ | LIGHT POLE |
| | POWER POLE | ○ | TRAFFIC SIGNAL |
| TELEPHONE PEDESTAL,
ELECTRIC BOX, ETC. | | □ | PULLBOX |
| WATER METER | | ⋈ | WATER VALVE |
| FIRE HYDRANT | — W — | | WATERLINE |
| — | SANITARY
SEWER | — SD — | STORM
DRAIN |
| MANHOLE (SANITARY,
STORM OR TELEPHONE
FIELD VERIFIED | | ⊙ | MANHOLE (PER C.O.A.
SEWER & STORM
ATLAS) NOT FIELD
VERIFIED |
| == | EXIST. C & G
(MEDIAN) | △ | SURVEY
CONTROL POINT |
| SIGN (YIELD, STOP, ETC.) | | ⬮ | SIGN
(ADVERTISEMENTS) |
| → | TREE | ▬▬▬ | DROP INLET |
| → | CHAIN LINK
FENCE | ● TC = 78.67
FL = 78.22 | SPOT
ELEVATION |
| G — | GAS LINE | | |
| <u>(PROPOSED)</u> | | | |
| LIGHT FOUNDATION | | ■ | ELECTRICAL PULLBOX |
| TRAFFIC | MANHOLE | ▲ | PC STA. 15+70
TC, FL = |
| | | | SPOT
ELEVATION |
| MEDIAN C & G WITH
PATTERNED CONC. P.V.M.T. | | | |

[illegible]



NOTES:

- REMOVE MEDIAN PAVEMENT (CONCRETE OR ASPHALT).
- REMOVE EXISTING AND BUILD NEW MEDIAN CURB & GUTTER WITH EXPANSION JOINTS. (SEE DETAIL SHEET 12-3)
- NEW MEDIAN CONCRETE PAVEMENT, RUNNING ROAD BRICK PATTERNED. (SEE DETAIL SHEET 12-3)
- CONSTRUCT NEW STREET LIGHT FOUNDATIONS AS INDICATED. PHM WILL RELOCATE POLES AND LIGHTS WHEN NEW FOUNDATIONS ARE COMPLETE. CONTRACTOR SHALL THEN REMOVE AND DISPOSE OF EXISTING STREET LIGHT FOUNDATIONS. BASE HOLES SHALL THEN BE BACKFILLED AND COMPACTED TO 95% DENSITY (ASTM D-1557). ENTIRE CIRCUIT MUST BE READY FOR RELOCATION AT ONE TIME IN ORDER THAT ROADWAY WILL REMAIN LIGHTED DURING CONSTRUCTION.
- ALL MEDIAN AREAS TO BE PLANTED SHALL BE EXCAVATED TO A DEPTH OF 3" FROM TOP OF CURB, EXCLUDING BENCH AT CURB. (SEE DETAIL SHEET 29-3) SOIL REMOVED SHALL BE DISPOSED OF IN AN ENGINEER-APPROVED LANDFILL AND SHALL NOT BE REUSED IN THIS OR ANY OTHER LANDSCAPE PROJECT.
- WHEN REMOVING CURB & GUTTER ADJACENT TO EXISTING PAVEMENT ANY DAMAGE TO PAVEMENT OUTSIDE LIP OF CURB & GUTTER SHALL BE REPAIRED AND REPLACED AT CONTRACTOR EXPENSE.
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- 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 C.O.A. YARD ON PING BY COORDINATING WITH RICK ROYAL AT 768-2531. PLATING WILL BE AT AN ADDITIONAL COST TO THIS CONTRACT.
- PAVEMENT REPLACEMENT WILL CONFORM TO PAVEMENT SECTION DETAILS ON SHEET 12.
- COORDINATE LOCATIONS OF TRAFFIC PEDESTAL FOUNDATIONS WITH TRAFFIC OPERATIONS # 764-1599, THREE WORKING DAYS PRIOR TO INSTALLATION.

SCALE: 1"=20'

SCALE: 1"=20'

LEGEND (EXISTING)

- ANCHOR BOLT
- POWER POLE
- TELEPHONE PEDESTAL, ELECTRIC BOX, ETC.
- WATER METER
- FIRE HYDRANT
- MANHOLE (SANITARY, STORM OR TELEPHONE) FIELD VERIFIED
- EXIST. C & G (MEDIAN)
- SIGN (YIELD, STOP, ETC.)
- TREE
- CHAIN LINK FENCE
- GAS LINE

LEGEND (PROPOSED)

- LIGHT POLE
- TRAFFIC SIGNAL
- PULLBOX
- WATER VALVE
- WATERLINE
- STORM DRAIN
- MANHOLE (PER C.O.A. ATLAS) NOT FIELD VERIFIED
- SURVEY CONTROL POINT
- SIGN (ADVERTISEMENTS)
- DROP INLET
- SPOT ELEVATION
- SPOT ELEVATION
- MEDIAN C & G WITH PATTERNED CONC. PVM.T.

12-8-88

Typical Section A-A

26 31 170 989

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **MENAU BOULEVARD NE.
MEDIAN RECONSTRUCTION & LANDSCAPING
RECONSTRUCTION PLAN**

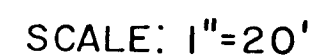
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	David Hays	4.1.88	Liquid Waste	POO	3/14/88
A.C.E. Design			Traffic	POO	4.6.88
A.C.E. Hydrology	3.1.88		Water	POO	3/14/88

DESIGNED BY JJ
DRAWN BY J.M./ELO
CHECKED BY F.N.D.

NO. DATE
12/88 AS BUILT
REVISIONS
DESIGN
DATE
DATE
DATE

DRAWING NO. 3117
MAP NO. H-17
SHEET 9 OF 29

F.D.A. JOB NO. 93.1.11



ADD 5100 FOR MSL

NOTE: STATIONING ON THESE PLANS IS WITH RESPECT
TO SURVEY BASELINE.

SCALE : 1" = 20'

1. REMOVE MEDIAN PAVEMENT (CONCRETE OR ASPHALT).
2. REMOVE EXISTING AND BUILD NEW MEDIAN CURB, GUTTER AND SIDEWALK TO POINTS. (CITY STANDARDS DRAWING 7415.)
3. REMOVE MEDIAN CONCRETE PAVEMENT, RUNNING BACK BRICK PATTERED. (USUAL SHEET).
4. CONSTRUCT NEW STREET LIGHT FOUNDATIONS AS INDICATED. WHEN ALL DRAINAGE POLES AND LIGHTS WHEN MODIFICATIONS ARE COMPLETE. CONTRACTOR SHALL THEN REMOVE AND REBUILD EXISTING STREET LIGHT FOUNDATIONS. BASE HOLDS SHALL THEN BE REBUILT AND FILLED AND SOIL DENSITY (ASTM D-1557). ENTIRE PROJECT SHALL BE COMPLETED WITHIN ONE TIME IN THAT ORDER THAT ROADWAY WILL REMAIN LIGHTED DURING CONSTRUCTION.
5. ALL MEDIAN AREAS TO BE PLANTED SHALL BE EXCAVATED TO A DEPTH OF 3' FROM DRAINAGE POLES AND LIGHTS. SOIL CURB. (SEE DETAIL SHEET 28.) SOIL REMOVED SHALL BE REBUILT AND REBUILT BY ENGINEER-APPROVED LANDFILL AND SHALL NOT BE REUSED IN THIS OR ANY OTHER PROJECT.
6. WHEN REMOVING CURB & GUTTER ADJACENT TO EXISTING PAVEMENT ANY DAMAGE TO EXISTING OUTSIDE LOT OF CURB & GUTTER SHALL BE REMOVED AND REPLACED AT CONTRACTOR EXPENSE.
7. ALL PAVEMENT CUTS SHALL BE ALONG EXISTING LIGHT LINES. WHEN CURB & GUTTER IS REMOVED, A MINIMUM OF 1' EXISTING SHALL BE REMOVED.
8. ALL 2" ELECTRICAL CONDUIT (FOR INTERCONNECT CONTROL) SHALL BE SCHEDULE 40 PVC. LOCATIONS SHOWN SHALL BE INDICATIVE. PLACEMENT TO BE FIELD VERIFIED.
9. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXISTING UTILITY LINES. DAMAGE TO EXISTING LINES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. PRIOR TO RELOCATE POLES AND LIGHTS WHEN NEW FOUNDATIONS ARE COMPLETE.
11. WHERE STREET LIGHT FOUNDATIONS ARE INDICATED AT BACK OF CURB, THE EDGE OF FOUNDATION SHALL BE PLACED AT BACK OF CURB. WHERE FOUNDATIONS ARE INDICATED AT BACK OF CURB, THE EDGE OF FOUNDATION SHALL BE PLACED AT BACK EDGE OF CURB.
12. ALL MEDIANS SHALL HAVE A 10 MIL PVC MEMBRANE INSTALLED CONTINUOUSLY AT THE BACK OF CURB AND BACK OF CONCRETE. MEMBRANE SHALL EXTEND TO THE BACK OF CURB AND BACK OF THE EXCAVATED PIT. ADHESIVE MEMBRANE SHALL BE APPLIED TO THE BACK OF MANUFACTURERS SPECIFICATIONS AND INSTALLATIONS SHALL BE TO MANUFACTURERS SPECIFICATIONS.
13. SHOULD CONSTRUCTION ON THIS PROJECT TAKE OVER ONE DAY TO ACCOMPLISH, PLATING OF THE CRANES OR CRANES SHALL BE PROVIDED AT THE END OF EACH WORKING DAY PLATING CAN BE OBTAINED FROM THE FOLLOWING: RICK ROYAL, 766-2531. PLATING WILL BE THE COST TO THE CONTRACTOR.
14. PAVEMENT REPLACEMENT WILL CONFORM TO THE CITY SECTIONS 11 AND SECTION 12.
15. COORDINATE LOCATIONS TRAFFIC PEDESTAL FOUNDATIONS WITH TRAFFIC OPERATIONS P 764-1599. THREE WORKING DAYS TO INSTALL.

LEGEND
(EXISTING)

-  ANCHOR BOLT
 GUY WIRE
 POWER POLE
 TELEPHONE, PEDESTAL, ELECTRIC BOX, ETC.
 WATER METER
 FIRE HYDRANT
 SANITARY SEWER
 MANHOLE (SANITARY, STORM OR TELEPHONE) FIELD VERIFIED
 EXIST. C&G
 SIGN (YIELD, STOP, ETC.)
 TREE
 CHAIN LINK FENCE
 GAS LINE
 LIGHT POLE
 TRAFFIC SIGNAL
 PULLBOX
 WATER VALVE
 WATERLINE
 STORM DRAIN
 MANHOLE (PER C.O.A. SEWER & STORM ATLAS) NOT FIELD VERIFIED
 SURVEY CONTROL POINT
 SIGN (ADVERTISEMENT)
 DROP INLET
 TO: 78.67
 FL: 78.22
 SPOT ELEVATION
- (PROPOSED)
-  LIGHT FOUNDATION
 ELECTRICAL PULLBOX
 TRAFFIC MANHOLE
 P.C. STA. 15+70
 T.C., FL =
 SPOT ELEVATION
- MEDIAN C & G WITH PATTERNED CONG. P.V.M.T.

MEDIAN RECONSTRUCTION
FACE-OF-CURB DATA

1. $\Delta = 16^{\circ}15'37''$
 $R = 150.00'$
 $L = 42.57'$
 $T = 21.43'$

2. $\Delta = 179^{\circ}59'31''$
 $R = 2.89'$
 $L = 9.06'$
 $T = \text{---}$

Typical Section A-A

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

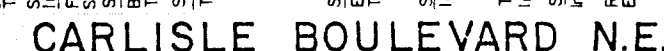
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

**TITLE: MENAUL BOULEVARD NE.
MEDIAN RECONSTRUCTION & LANDSCAPING
RECONSTRUCTION PLAN**

PERMITS/NOTIFICATION PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4.6.88	Liquid Waste	PEGO	3/14/88
A.C.E. Design	<i>[Signature]</i>	"	Traffic	<i>[Signature]</i>	4.6.88
A.C.E. Hydrology	<i>[Signature]</i>	3.5.88	Water	PEGO	3/14/88

DRAWING NO	3117	MAP NO.	H-17	SHEET	10	OF	29
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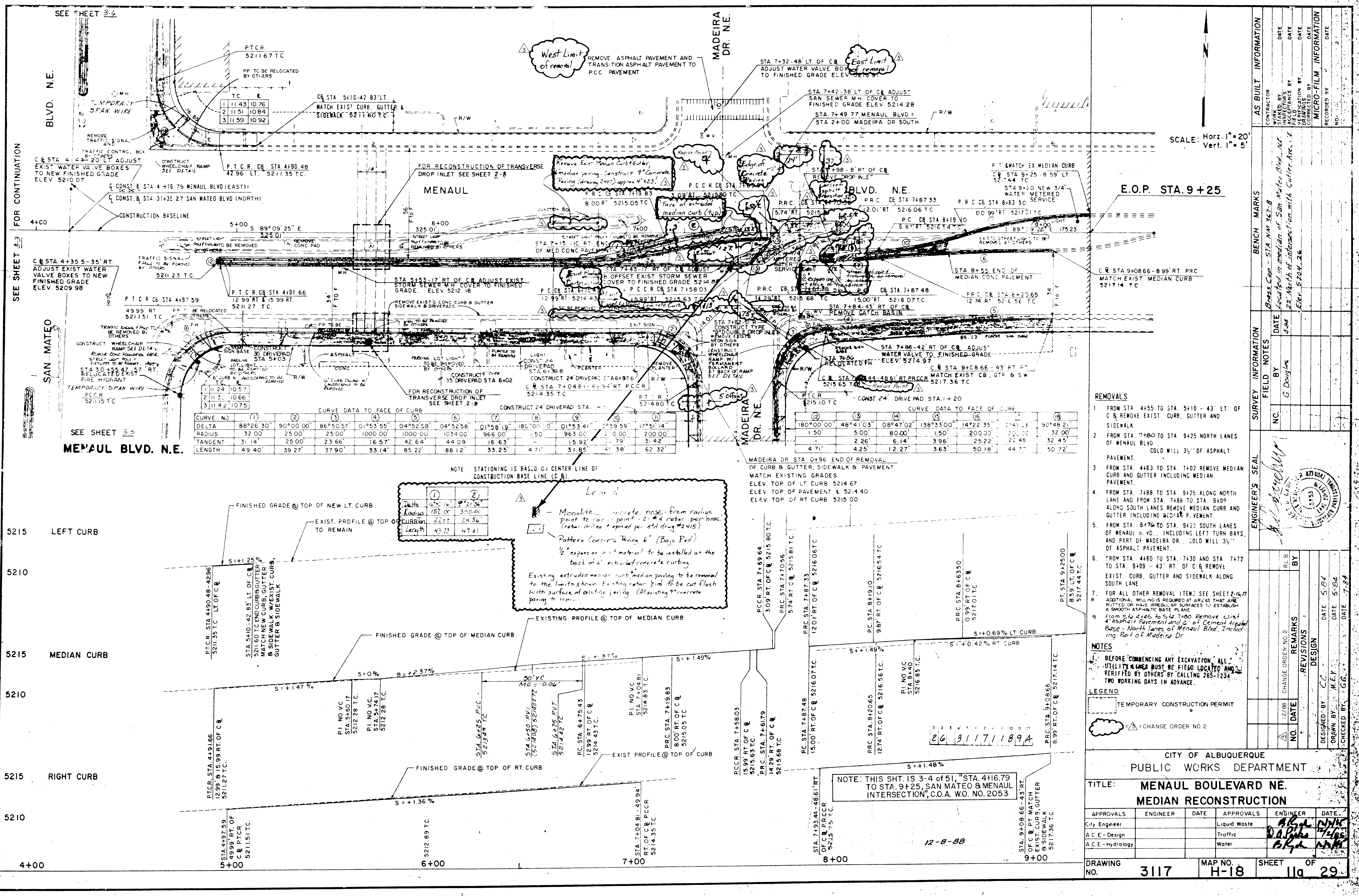
F.D.A. JOB NO. 93111



SHADED AREA IS MILL & OVERLAY w/FABRIC INCLUDED, ADDED
UNDER CHANGE ORDER NO.2, FROM C.O.A. W.O. # 3129

12-8-88

F.D.A. JOB NO. 931.11



SCALE: Horz. 1"=20'
Vert. 1"=5'

CURVE NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
DELTA	88°26'30"	90°00'00"	86°50'57"	01°53'55"	04°52'58"	04°52'58"	01°58'19"	180°00'00"	01°58'41"	2°59'59"
RADIUS	32.00'	25.00'	25.00'	1000.00'	1000.00'	1034.00'	966.00'	1.50'	963.00'	200.00'
TANGENT	31.14'	25.00'	23.66'	16.57'	42.64'	44.09'	16.63'	-	15.92'	31.42'
LENGTH	49.40'	39.27'	37.90'	33.14'	85.22'	88.12'	33.25'	4.71'	31.85'	62.32'

CURVE DATA TO FACE OF CURB	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
DELTA	180°00'00"	48°41'03"	08°47'02"	138°33'00"	14°22'35"	2°44'16"	90°48'21"	90°48'21"
RADIUS	1.50'	5.00'	80.00'	1.50'	200.00'	200.00'	32.00'	32.00'
TANGENT	4.71'	2.26'	6.14'	3.96'	25.22'	22.46'	32.43'	32.43'
LENGTH	4.71'	4.25'	12.27'	3.63'	50.18'	44.77'	50.72'	50.72'

NOTE: STATIONING IS BASED ON CENTER LINE OF CONSTRUCTION BASE LINE (C.B.)

Lead

Monolithic concrete nose from radius point to radius point - 2" x 4" rebar per nose (rebar drilled & spaced per std. drawing #2415)

Pattern Concrete Paving 6" (Base Pad)

1/2" exposure of material to be installed at the back of all extruded concrete curbing

Existing extruded median curb, median paving to be removed to the limits shown. Existing rebar to be cut flush with surface of existing paving. (All existing 9" concrete paving to remain)

- REMOVALS**
- FROM STA. 4+55 TO STA. 5+10 - 43' LT. OF C.B. REMOVE EXIST. CURB, GUTTER AND SIDEWALK.
 - FROM STA. 7+80 TO STA. 9+25 NORTH LANES OF MENAUL BLVD. COLD MILL 3 1/2" OF ASPHALT PAVEMENT.
 - FROM STA. 4+63 TO STA. 7+02 REMOVE MEDIAN CURB AND GUTTER INCLUDING MEDIAN PAVEMENT.
 - FROM STA. 7+88 TO STA. 9+25 ALONG NORTH LANE AND FROM STA. 7+88 TO STA. 9+09 ALONG SOUTH LANES REMOVE MEDIAN CURB AND GUTTER INCLUDING MEDIAN PAVEMENT.
 - FROM STA. 8+74 TO STA. 9+25 SOUTH LANES OF MENAUL BLVD. INCLUDING LEFT TURN BAYS, AND PART OF MADEIRA DR., COLD MILL 3 1/2" OF ASPHALT PAVEMENT.
 - FROM STA. 4+60 TO STA. 7+30 AND STA. 7+72 TO STA. 9+09 - 43' RT. OF C.B. REMOVE EXIST. CURB, GUTTER AND SIDEWALK ALONG SOUTH LANE.
 - FOR ALL OTHER REMOVAL ITEMS SEE SHEET 2-16/17
 - ADDITIONAL MILLING IS REQUIRED AT AREAS THAT ARE PUTTIED OR HAVE IRREGULAR SURFACES TO ESTABLISH A SMOOTH ASPHALTIC BASE PLANE
 - FROM STA. 4+45 TO STA. 7+00 REMOVE EXIST. 4" ASPHALT PAVEMENT AND 6" OF CEMENT TREATED BASE - NORTH LANES OF MENAUL BLVD. INCLUDING PART OF MADEIRA DR.
- NOTES**
- BEFORE COMMENCING ANY EXCAVATION, ALL UTILITIES MUST BE FIELD LOCATED AND VERIFIED BY OTHERS BY CALLING 265-1234 TWO WORKING DAYS IN ADVANCE.

LEGEND

TEMPORARY CONSTRUCTION PERMIT

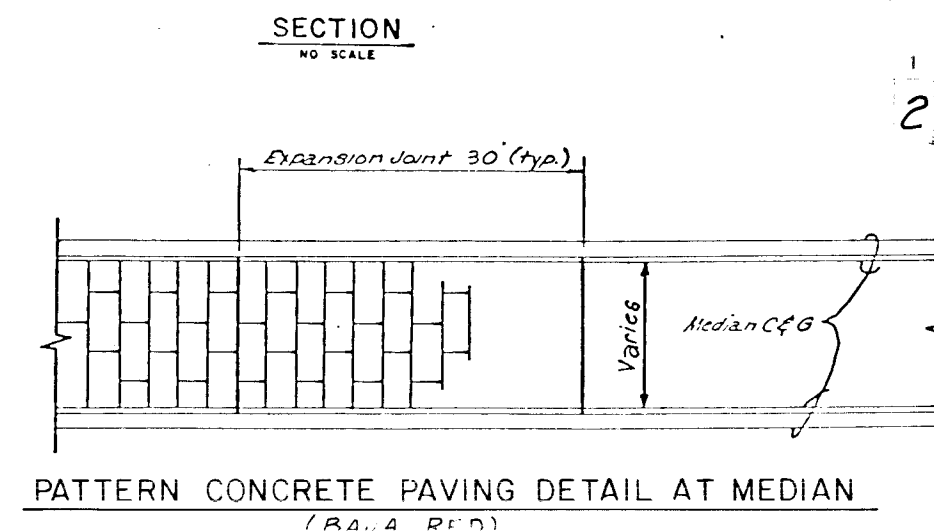
CHANGE ORDER NO. 2

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

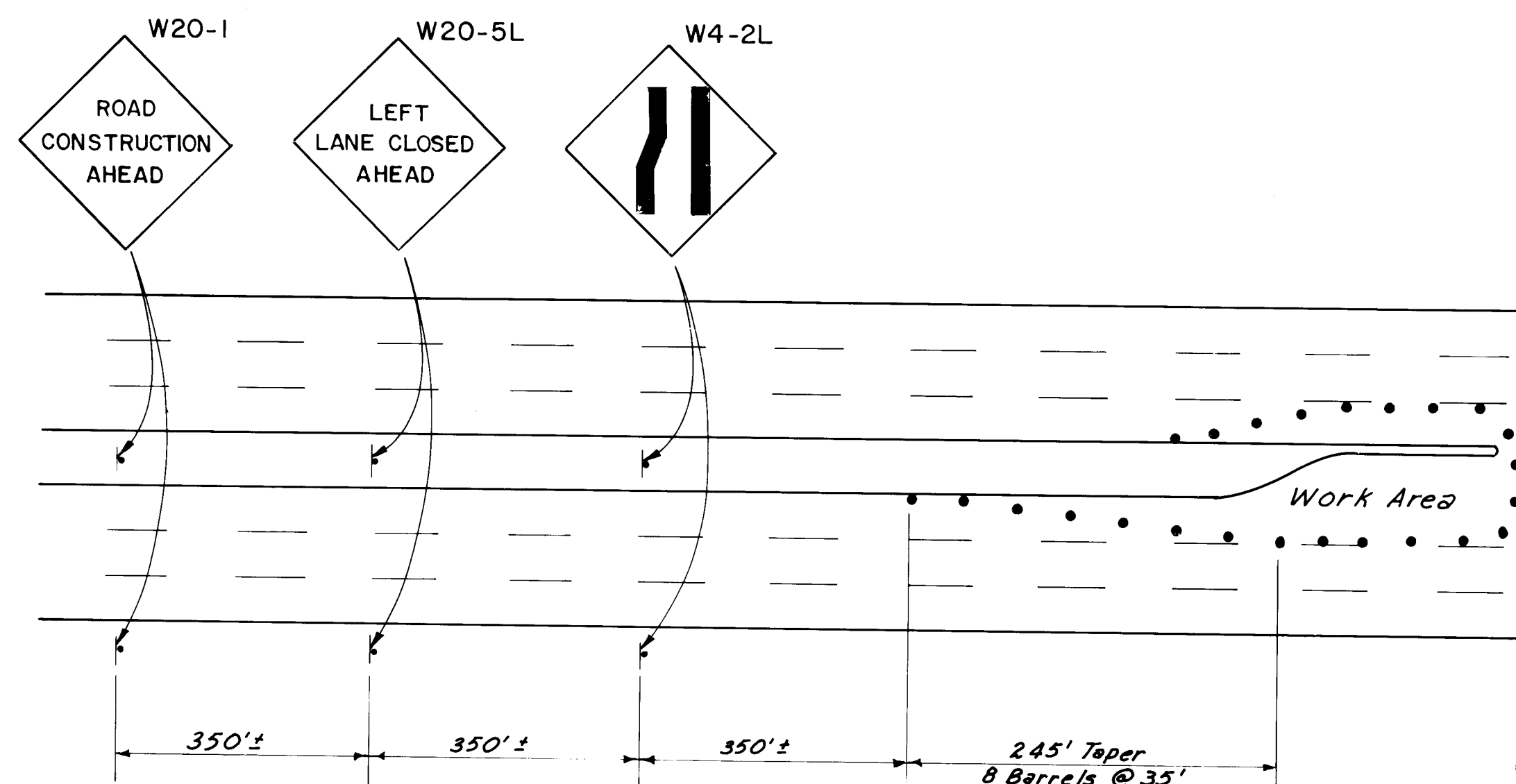
TITLE: **MENAUL BOULEVARD NE. MEDIAN RECONSTRUCTION**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

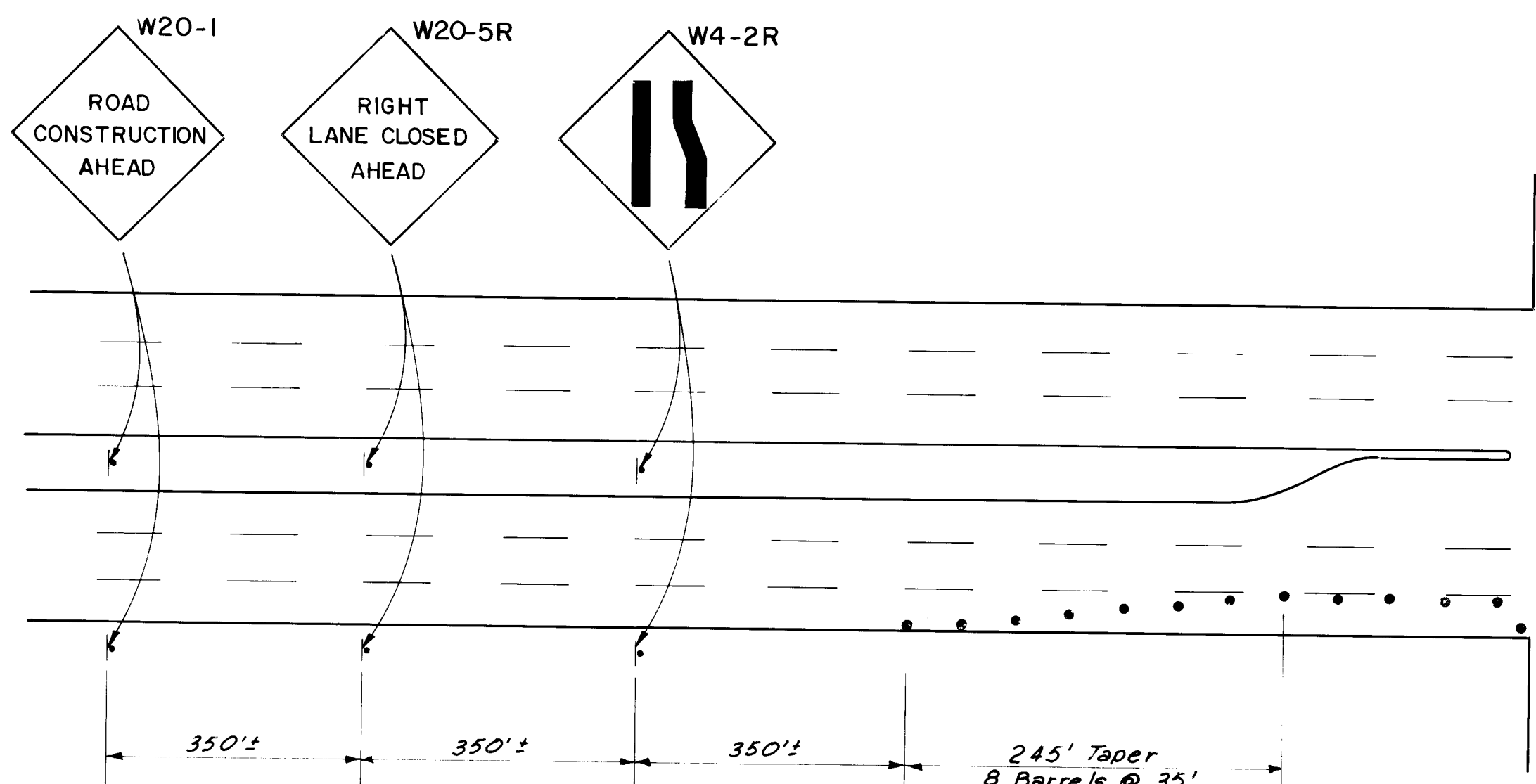
DRAWING NO. **3117** MAP NO. **H-18** SHEET **11a** OF **29**

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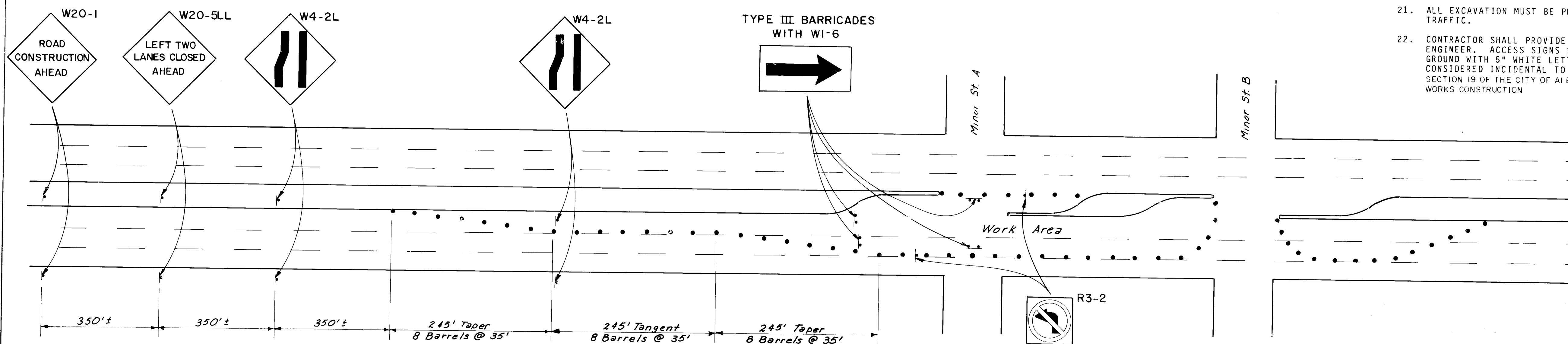
CITY OF ALBUQUERQUE					
PUBLIC WORKS DEPARTMENT					
TITLE: MENAUL BOULEVARD NE. MEDIAN RECONSTRUCTION & LANDSCAPING DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	9.6.88	Liquid Waste	<i>[Signature]</i>	3/14/88
A.C.E. - Design	<i>[Signature]</i>	" "	Traffic	<i>[Signature]</i>	4.6.88
A.C.E. - Hydrology	<i>[Signature]</i>	3/15/88	Water	<i>[Signature]</i>	3/14/88
<i>[Signature]</i>	<i>[Signature]</i>	3/15/88			
DRAWING NO.	3117		MAP NO.	SHEET	OF
				12	29



TYPICAL LEFT LANE CLOSURE
NO SCALE



TYPICAL RIGHT LANE CLOSURE
NO SCALE



TYPICAL LEFT TWO LANES CLOSED
NO SCALE

TYPE III BARRICADES WITH W1-6

Match Advance Signing and Barricading in opposite direction

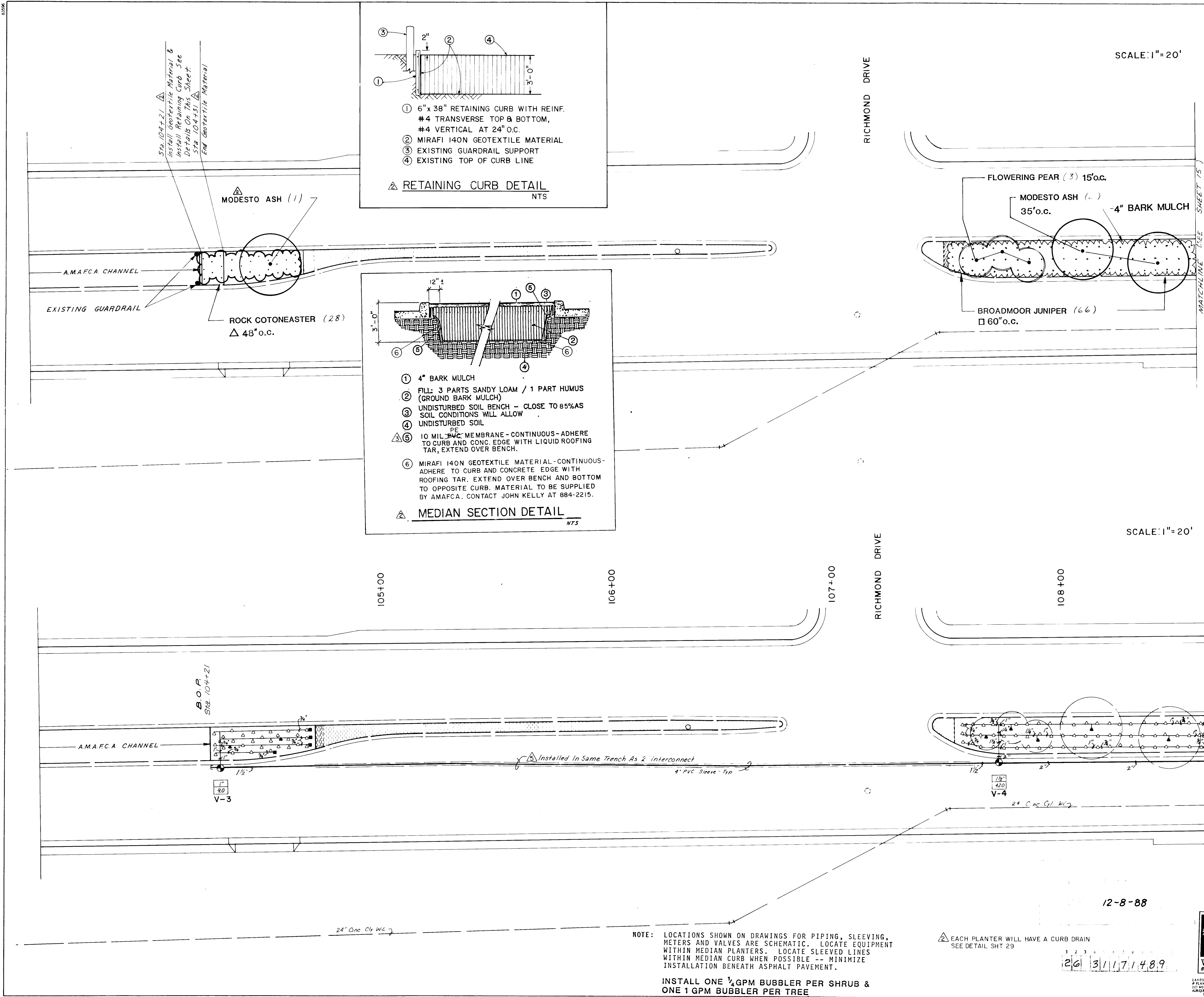
NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH CHAPTER VI OF THE 1978 EDITION "NEW MEXICO MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES."
2. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE CITY TRAFFIC ENGINEER A DETAILED DETOUR PLAN, WHICH MUST BE APPROVED BY THE CITY TRAFFIC ENGINEER 3 WORKING DAYS IN ADVANCE OF ANY REQUIRED LANE CLOSURES OTHER THAN THOSE SHOWN ON THESE PLANS.
3. ALL SIGNS MUST BE INSTALLED BEFORE CONSTRUCTION BEGINS AS DIRECTED BY THE CITY TRAFFIC ENGINEER. SIGN HEIGHTS SHALL BE 7 FEET ABOVE THE SIDEWALK LEVEL TO THE BOTTOM OF THE SIGN.
4. ALL SIGNS, BARRICADES AND/OR BARRELS WILL BE REFLECTORIZED. ALL BARRELS MAY HAVE SAND OR WATER BALLAST LIMITED TO 100 LBS. NO ROCK OR OTHER WEIGHTING IS ALLOWED.
5. ALL SIGN LOCATION WILL BE SELECTED IN THE FIELD AND APPROVED BY THE CITY TRAFFIC ENGINEER. DISTANCES MAY BE ADJUSTED FOR LOCAL CONDITIONS WITH APPROVAL OF TRAFFIC ENGINEERING.
6. ALL APPLICABLE SIGNS WILL BE MOVED AS THE CONSTRUCTION PROGRESSES.
7. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION EXCEPT DURING ACTUAL PAVING OPERATIONS.
8. WHEN TRAFFIC CONTROL DEVICES ARE REQUIRED AFTER DARK, ALL ADVANCE WARNING SIGNS AND ALL BARRICADES SHALL BE EQUIPPED WITH FLASHING WARNING LIGHTS (TYPE A), EXCEPT THAT ALL CHANNELIZING TRAFFIC CONTROL DEVICES SHALL HAVE STEADY BURNING WARNING LIGHTS (TYPE C). LIGHTS WILL BE CONSIDERED INCIDENTAL TO THE BARRICADES AND WARNING SIGNS.
9. ALL EXISTING REGULATORY SIGNS THAT NEED TO BE REMOVED, RELOCATED OR REINSTALLED SHALL BE DONE BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DIVISION. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEERING DIVISION 3 WORKING DAYS IN ADVANCE OF ANY REQUIRED WORK.
10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELING PEDESTRIAN TRAFFIC AROUND ALL WORK AREAS THROUGHOUT THE PERIOD OF CONSTRUCTION. ALL SUCH CHANNELIZATION SHALL BE ARRANGED TO PREVENT PEDESTRIANS FROM HAVING TO ENTER THE ROADWAY IN ORDER TO PASS AROUND THE WORK AREAS.
11. ALL CONSTRUCTION SIGNING SHALL BE BLACK ON A REFLECTORIZED ORANGE FIELD UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION BARRICADES AND CHANNELIZATION DEVICES SHALL BE ORANGE ON WHITE, REFLECTORIZED, UNLESS OTHERWISE SPECIFIED.
12. ALL ADVANCE WARNING SIGNS NOT DIRECTLY APPLICABLE SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ONCOMING TRAFFIC.
13. BARRICADES AND BARRELS SHALL NOT BE INTERMIXED IN THE SAME SERIES OF CHANNELIZATION.
14. PORTABLE SIGN SUPPORTS MUST SATISFY MOUNTING HEIGHT REQUIREMENTS (SEE NOTE 3).
15. A MINIMUM WIDTH OF 11 FEET FOR ONE LANE TRAFFIC WILL BE MAINTAINED AT ALL TIMES.
16. PERMANENT STRIPING WILL BE THE RESPONSIBILITY OF THE CITY AND MUST BE COMPLETED BEFORE ANY SEGMENT OF THE PROJECT IS OPENED TO TRAFFIC. THE CONTRACTOR SHALL COORDINATE WITH THE CITY TRAFFIC ENGINEER AS TO WHEN EACH SEGMENT WILL BE COMPLETED.
17. THE CONTRACTOR SHALL SUBMIT THE SEQUENCE OF CONSTRUCTION FOR APPROVAL BY THE CITY TRAFFIC ENGINEER, PRIOR TO STARTING THE PROJECT.
18. ALL LANES OF MENAUL MUST BE OPEN TO TRAFFIC BETWEEN 7 A.M. TO 9 A.M. AND 4 P.M. TO 6 P.M.
19. CONTRACTOR MAY BLOCK A LEFT LANE FOR A MAXIMUM OF 1,000' AS SHOWN IN ORDER TO CREATE A WORK AREA. AT NO TIME SHALL TWO CONSECUTIVE MEDIAN OPENINGS BE BLOCKED DUE TO CONSTRUCTION ACTIVITIES.
20. CONTRACTOR MAY BLOCK TWO LANES OF MENAUL TRAFFIC FOR A MAXIMUM OF 3 HOURS AS SHOWN IN ORDER TO ACCOMPLISH UTILITY CROSSINGS.
21. ALL EXCAVATION MUST BE PLATED OR PATCHED PRIOR TO OPENING TO TRAFFIC.
22. CONTRACTOR SHALL PROVIDE ACCESS SIGNS AS DIRECTED BY TRAFFIC ENGINEER. ACCESS SIGNS SHALL HAVE A BLUE REFLECTORIZED BACK GROUND WITH 5" WHITE LETTERING. ALL COSTS SHALL BE CONSIDERED INCIDENTAL TO CONTRACT. CONTRACTOR WILL COMPLY WITH SECTION 19 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

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

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT					
TITLE: MENAUL BOULEVARD NE. MEDIAN RECONSTRUCTION & LANDSCAPING TRAFFIC CONTROL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4-6-88	Liquid Waste	<i>[Signature]</i>	3/14/88
A C E - Design	<i>[Signature]</i>	"	Traffic	<i>[Signature]</i>	4-6-88
A C E - Hydrology	<i>[Signature]</i>	4/8/88	Water	<i>[Signature]</i>	3/14/88
DRAWING NO. 3117 MAP NO. SHEET 13 OF 29					

12-8-88



CONSTRUCTION NOTES

- All median areas to be planted shall be excavated to a depth of 3 feet from top of curb excluding bench at curb. See Typical Median Section Sheet 29. Soil removed shall be disposed of in an approved landfill and shall not be reused in this or any other landscape project because of sterilization.
- All medians where planting occurs shall have a 10 mil PVC 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 utility lines. Damage to 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 Landscape Architect.
- 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 Traffic Engineer, signs shall be incidental to the Contract.

PLANTING NOTES

- Plants for annual color beds shall be installed by Owner and are not in this contract. Install irrigation in these areas as indicated.
- Back fill for medians shall be 3 parts sandy loam, free of rocks greater than 1" diameter, debris, vegetation and trash (sample shall be approved by Landscape Architect), and 1 part ground bark mulch. Compact combined fill to Natural Density as determined by Engineer.
- All planted areas of medians shall contain 4" deep shredded bark mulch. Sample to be approved by Landscape Architect.
- Trees shall be 5 feet minimum from back of curb.
- Numbers of plants are estimates only. Contractor is responsible for plants shown on plans. See Sheet 29 for dimensions from curb for plants.

IRRIGATION NOTES

- At completion of the project, the Landscape Contractor shall coordinate the final controller program with Maintenance Division, Parks and Recreation Department, City of Albuquerque.
- Water pressure on the site varies. Landscape Contractor shall verify pressure on the site for each system at tap (pressure is assumed to be 65 PSI or greater). Pressure at each irrigation head shall equal minimum of 20 PSI.
- Plan locations of meters, main lines, master valves, irrigation valves, and sleeves are schematic. Locate each item on site in medians.
- Each valved system shall have a manual drain installed at the low point of the main line and an air relief valve at the high point. See Detail 25.
- All piping shall be sleeved under all pavement in 4" class 200 PVC pipe. 24 volt wires shall be sleeved in 1 1/2" class 200 PVC pipe.
- There shall be one 1/4 gpm bubbler for each shrub 12" from the center of each plant on the uphill side of the plant, and one 1 gpm bubbler for each tree, 24" from the center of the tree on the uphill side.

AS BUILT INFORMATION

DATE	BY	NO.	DATE	BY	NO.
12/88	AS BUILT				
12/88	CHANGE ORDER NO. 2				
9/4/88	CHANGE ORDER NO. 1				

REVISIONS

NO.	DATE	REMARKS
1	12/88	DESIGN

DESIGNED BY MB. DATE 12/88
DRAWN BY T.J.W./E.O. DATE 12/88
CHECKED BY K.W. DATE 12/88

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

**TITLE: MENAUL BOULEVARD NE.
MEDIAN RECONSTRUCTION & LANDSCAPING
LANDSCAPING & IRRIGATION**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[Signature]	4/6/88	Liquid Waste	[Signature]	3/14/88
A.C.E. - Design	[Signature]	4/6/88	Traffic	[Signature]	4/6/88
A.C.E. - Hydrology	[Signature]	3/5/88	Water	[Signature]	3/14/88
Parks & Recreation	[Signature]	3/11/88			

DRAWING NO. 3117 **MAP NO. H-16** **SHEET 14 OF 29**

**LANDSCAPE ARCHITECTS
PLANNERS P.A. & A.
200 MENAUL BOULEVARD NE.
ALBUQUERQUE, NEW MEXICO 87311**

12-8-88

NOTE: LOCATIONS SHOWN ON DRAWINGS FOR PIPING, SLEEVING, METERS AND VALVES ARE SCHEMATIC. LOCATE EQUIPMENT WITHIN MEDIAN PLANTERS. LOCATE SLEEVED LINES WITHIN MEDIAN CURB WHEN POSSIBLE -- MINIMIZE INSTALLATION BENEATH ASPHALT PAVEMENT.

INSTALL ONE 1/4 GPM BUBBLER PER SHRUB & ONE 1 GPM BUBBLER PER TREE

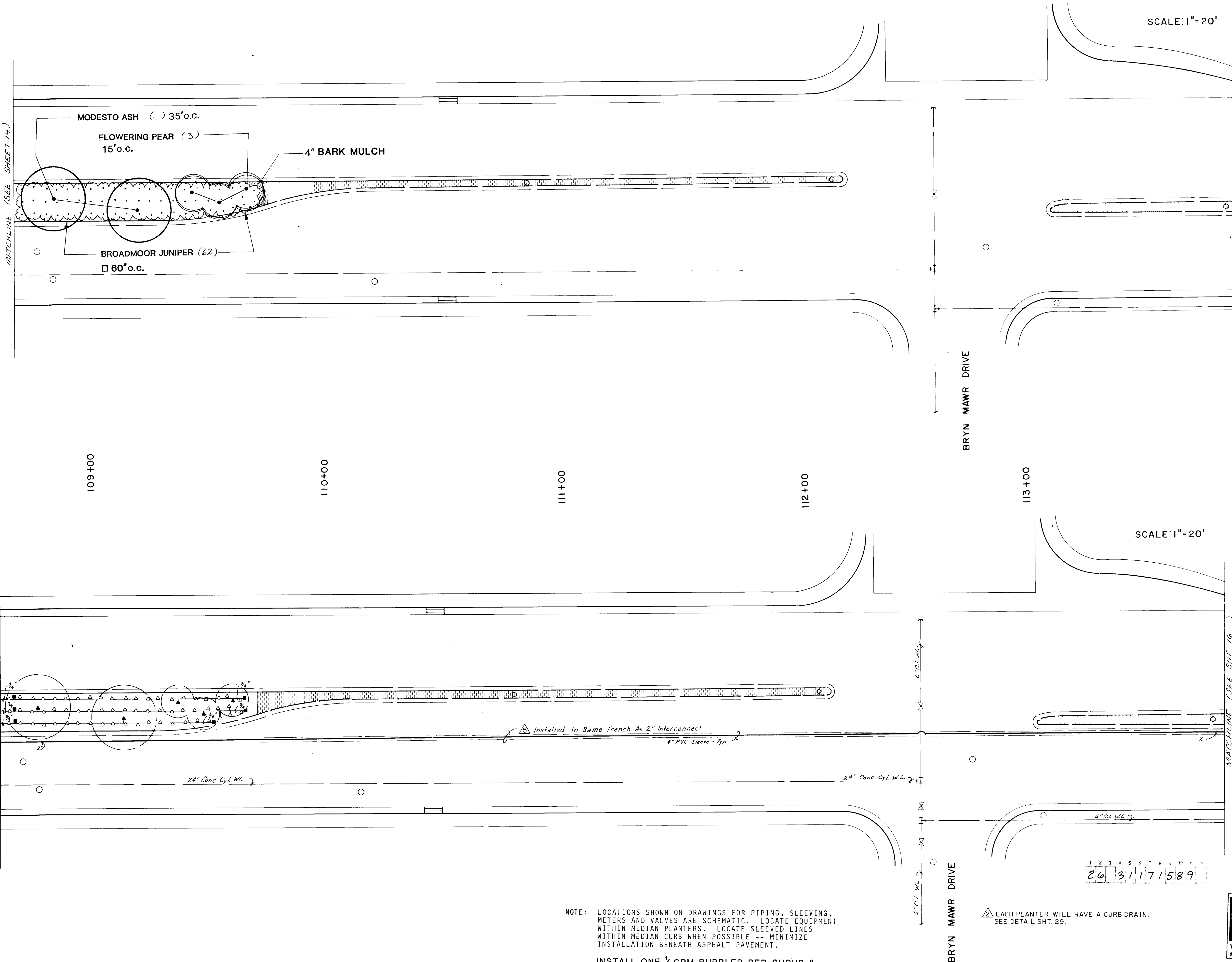
**EACH PLANTER WILL HAVE A CURB DRAIN
SEE DETAIL SHT 29**

3 1 2 3 4 5 6 7 8 9

20 31 11 7 1 4 8 9

MATCHLINE (SEE SHEET 14)

MATCHLINE (SEE SHEET 14)



NOTE: LOCATIONS SHOWN ON DRAWINGS FOR PIPING, SLEEVING, METERS AND VALVES ARE SCHEMATIC. LOCATE EQUIPMENT WITHIN MEDIAN PLANTERS. LOCATE SLEEVED LINES WITHIN MEDIAN CURB WHEN POSSIBLE -- MINIMIZE INSTALLATION BENEATH ASPHALT PAVEMENT.

INSTALL ONE 1/2 GPM BUBBLER PER SHRUB & ONE 1 GPM BUBBLER PER TREE

EACH PLANTER WILL HAVE A CURB DRAIN. SEE DETAIL SHT. 29.



CONSTRUCTION NOTES

- All median areas to be planted shall be excavated to a depth of 3 feet from top of curb excluding bench at curb. See typical median section Sheet 29. Soil removed shall be disposed of in an approved landfill and shall not be reused in this or any other landscape project because of sterilization.
- All medians where planting occurs shall have a 10 mil PVC membrane installed continuously at the back of curb and at the edge of concrete. Membrane shall extend over both 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 utility lines. Damage to 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 Landscape Architect.
- 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 Traffic Engineer, signs shall be incidental to the Contract.

PLANTING NOTES

- Plants for annual color beds shall be installed by Owner and are not in this contract. Install irrigation in these areas as indicated.
- Back fill for medians shall be 3 parts sandy loam, free of rocks greater than 1" diameter, debris, vegetation and trash (sample shall be approved by Landscape Architect), and 1 part ground bark mulch. Compact combined fill to Natural Density as determined by Engineer.
- All planted areas of medians shall contain 4" deep shredded bark mulch. Sample to be approved by Landscape Architect.
- Trees shall be 5 feet minimum from back of curb.
- Numbers of plants are estimates only. Contractor is responsible for plants shown on plans. See Sheet 29 for dimensions from curb for plants.

IRRIGATION NOTES

- At completion of the project, the Landscape Contractor shall coordinate the final controller program with Maintenance Division, Parks and Recreation Department, City of Albuquerque.
- Water pressure on the site varies. Landscape Contractor shall verify pressure on the site for each system at tap (pressure is assumed to be 45 PSI or greater). Pressure at each irrigation head shall equal minimum of 20 PSI.
- Plan locations of meters, main lines, master valves, irrigation valves, and sleeves are schematic. Locate each item on site in medians.
- Each valved system shall have a manual drain installed at the low point of the main line and an air relief valve at the high point. See Detail (25).
- All piping shall be sleeved under all pavement in 4" class 200 PVC pipe. 24 volt wires shall be sleeved in 1 1/2" class 200 PVC pipe.
- There shall be one 1/4 gpm bubbler for each shrub 12" from the center of each plant on the uphill side of the plant, and one 1 gpm bubbler for each tree, 24" from the center of the tree on the uphill side.

IRRIGATION LEGEND

- Water Meter - Rockwell Sealed Register Meter sized as shown on plans. 5" total. Rockwell Sealed Register water meter sized as shown on plans. 10" total. Tap and installation by City of Alb. (see drawing 2963 City contract documents). Seal and coordination are the responsibility of the Contractor. Customer Service Dept. Ph. 505-768-2800.
- Controller - Rain Bird ISC Independent Station Computer Controller. Controller shall be housed in a concrete wall. PSC-3000 or eq. by Materials Int., Current Electronics, Inc., freeze sensor shall be included. Controller size as shown on plans and as noted in Controller / Valve Legend - Sheet 29.
- Master Valve Assembly - See Detail (25). Assembly includes and following:
 - Rain Bird EPA-CP 200 Brass Electric - 2"
 - Rain Bird Pressure Vacuum Breaker - PVB-200-M
 - King Automatic Drain
 - Hammond HV-867 Brass Gate Valve - 2"
- Remote Control Valve - Rain Bird PE Series - See Detail (25). Size as shown on plans. Valve Size: 2" GPM.
- Automatic Drain - King Auto Drain - Locate as shown on plans. See Detail (25).
- Manual Drain - Locate in field on mainline after each master valve (line point) and in lateral line after electric valve. See Details (25) & (26).
- Pressure Compensating Full Circle Bubbler - Rain Bird 1401 - 1/4 GPM - 1 per shrub, 12" from center of shrub on up hill side. See Detail (25).
- Pressure Compensating Full Circle Bubbler - Rain Bird 1404 - 1 GPM - 1 per tree, 24" from center of tree on up hill side. See Detail (25).
- 12" Pop-Up Spray Head - W - Rain Bird 1812 w/ B12H nozzle (psi = 20, radius = 10', gpm = .80, p/r = 1.54). See Detail (25).
- 12" Pop-Up Spray Head - Q - Rain Bird 1812 w/ B12Q nozzle (psi = 20, radius = 10', gpm = .80, p/r = .54). See Detail (25).
- Inverted Garden Valve - Champion I-40 at 18" below finish grade in Bass & Hayes 34 D valve box.
- Schedule 40 PVC Main Line - 30" bury, size as shown on plans.
- Schedule 40 PVC Lateral Line - 18" bury, size as shown on plans.
- Class 200 PVC Sleeve - place under all paving.

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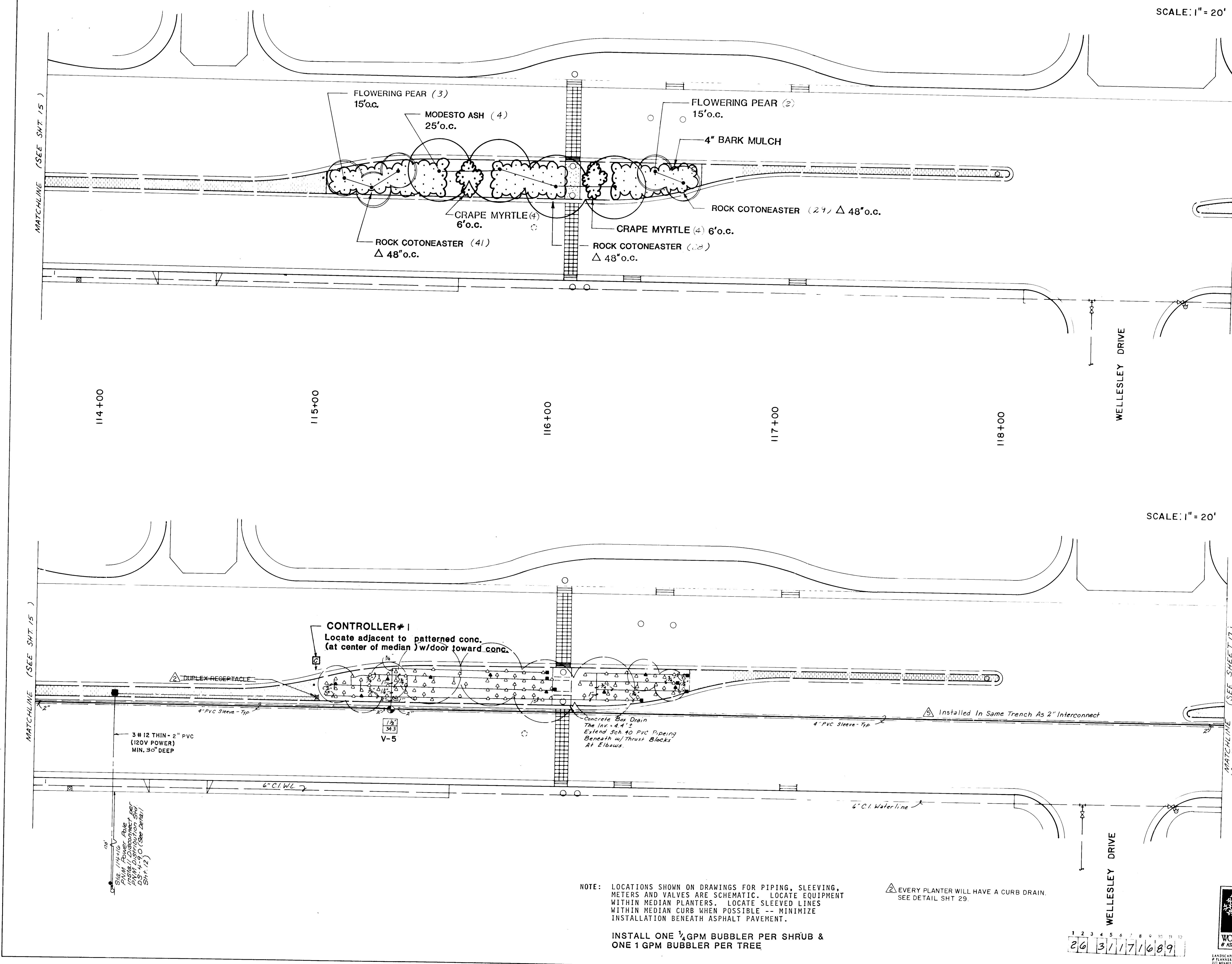
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SCALE: 1" = 20'

SCALE: 1" = 20'

CONSTRUCTION NOTES

- All median areas to be planted shall be excavated to a depth of 3 feet from top of curb excluding bench at curb. See Typical Median Section Sheet 29. Soil removed shall be disposed of in an approved landfill and shall not be reused in this or any other landscape project because of sterilization.
- All medians where planting occurs shall have a 10 mil PVC 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 utility lines. Damage to 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 Landscape Architect.
- 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 Traffic Engineer, signs shall be incidental to the Contract.

PLANTING NOTES

- Plants for annual color beds shall be installed by Owner and are not in this contract. Install irrigation in these areas as indicated.
- Back fill for medians shall be 3 parts sandy loam, free of rocks greater than 1" diameter, debris, vegetation and trash (sample shall be approved by Landscape Architect), and 1 part ground bark mulch. Compact combined fill to Natural Density as determined by Engineer.
- All planted areas of medians shall contain 4" deep shredded bark mulch. Sample to be approved by Landscape Architect.
- Trees shall be 5 feet minimum from back of curb.
- Numbers of plants are estimates only. Contractor is responsible for plants shown on plans. See Sheet 28 for dimensions from curb for plants.

IRRIGATION NOTES

- At completion of the project, the Landscape Contractor shall coordinate the final controller program with Maintenance Division, Parks and Recreation Department, City of Albuquerque.
- Water pressure on the site varies. Landscape Contractor shall verify pressure on the site for each system at tap (pressure is assumed to be 60 PSI or greater). Pressure at each irrigation head shall equal minimum of 20 PSI.
- Plan locations of meters, main lines, master valves, irrigation valves, and sleeves are schematic. Locate each item on site in medians.
- Each valve system shall have a manual drain installed at the low point of the main line and an air relief valve at the high point. See Detail 25.
- All piping shall be sleeved under all pavement in 1" class 200 PVC Pipe. 24 volt wires shall be sleeved in 1 1/2" class 200 PVC pipe.
- There shall be one 1/4 gpm bubbler for each shrub 12" from the center of each plant on the uphill side of the plant, and one 1 gpm bubbler for each tree, 24" from the center of the tree on the uphill side.

IRRIGATION LEGEND

- Water Meter - Rockwell Sealed Register Meter sized as shown on plan. 3 total. Rockwell Sealed Register water meter sized as shown on plan. 10 total. Tap and Installation by City of Alb. (see drawing 2363 City contract documents); cost and coordination are the responsibility of the Contractor, w/ Customer Service Dept. Ph. 505-768-2800.
- Controller - Rain Bird 35C Independent Station Computer Controller. Controller shall be housed in a concrete vault #55NC-100" as req. by Materials Inc., Current Electronics, Inc., freeze sensor shall be included. Controller size as shown on plans and as noted in Controller / Valve Legend - Sheet 29.
- Master Valve Assembly - See Detail 26. Assembly includes and following:
 - Rain Bird EFA-CP 200 Brass Electric - 2"
 - Rain Bird Pressure Vacuum Breaker - PVB-200-R
 - King Automatic Drain
 - Hammond HV-567 Brass Gate Valve - 2"
- Remote Control Valve - Rain Bird PE Series - See Detail 25. Size as shown on plans.
- Automatic Drain - King Auto Drain - Locate as shown on plans. See Detail 26.
- Manual Drain - Locate in field on mainline after each master valve (low point) and in lateral line after electric valve. See Detail 25.
- Pressure Compensating Full Circle Bubbler - Rain Bird 1401 - 1/4 GPM - 1 per shrub, 12" from center of shrub on up hill side. See Detail 25.
- Pressure Compensating Full Circle Bubbler - Rain Bird 1404 - 1 GPM - 1 per tree, 24" from center of tree on up hill side. See Detail 25.
- 12" Pop-Up Spray Head - M - Rain Bird 1812 w/ 812H nozzle (psi = 20, radius = 10', gpm = .80, p/r = 1.54). See Detail 25.
- 12" Pop-Up Spray Head - O - Rain Bird 1812 w/ 812O nozzle (psi = 20, radius = 10', gpm = .40, p/r = .54). See Detail 25.
- Inverted Garden Valve - Champion 1-40 at 18" below finish grade in Base & Hayes 34 D valve box.
- Schedule 40 PVC Main Line - 30" bury, size as shown on plans.
- Schedule 40 PVC Lateral Line - 18" bury, size as shown on plan.
- Class 200 PVC Sleeve - place under all paving.

AS BUILT INFORMATION

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2	11/08	CHANGE ORDER NO. 1
3	NO.	DATE

REVISIONS

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1	DESIGN	DESIGNED BY M.B.
2	DRAWN BY T.J.M/EL	DRAWN BY T.J.M/EL
3	CHECKED BY K.W.	CHECKED BY K.W.

12-8-88

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: MENAUL BOULEVARD NE. MEDIAN RECONSTRUCTION & LANDSCAPING

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4.6.88	Liquid Waste	<i>[Signature]</i>	3/14/88
A.C.E. - Design	<i>[Signature]</i>	4.6.88	Traffic	<i>[Signature]</i>	4.6.88
A.C.E. - Hydrology	<i>[Signature]</i>	4.6.88	Water	<i>[Signature]</i>	3/14/88
Park & Recreation	<i>[Signature]</i>	3/11/88			

DRAWING NO. 3117 MAP NO. H-16 SHEET 16 OF 29

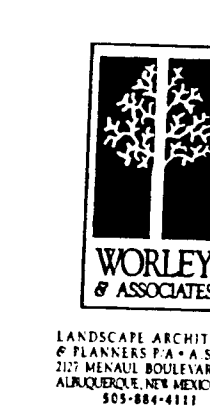
F.D.A. JOB NO. 931.11

NOTE: LOCATIONS SHOWN ON DRAWINGS FOR PIPING, SLEEVING, METERS AND VALVES ARE SCHEMATIC. LOCATE EQUIPMENT WITHIN MEDIAN PLANTERS. LOCATE SLEEVED LINES WITHIN MEDIAN CURB WHEN POSSIBLE -- MINIMIZE INSTALLATION BENEATH ASPHALT PAVEMENT.

INSTALL ONE 1/4 GPM BUBBLER PER SHRUB & ONE 1 GPM BUBBLER PER TREE

EVERY PLANTER WILL HAVE A CURB DRAIN. SEE DETAIL SHT 29.

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26 31 17 16 8 9

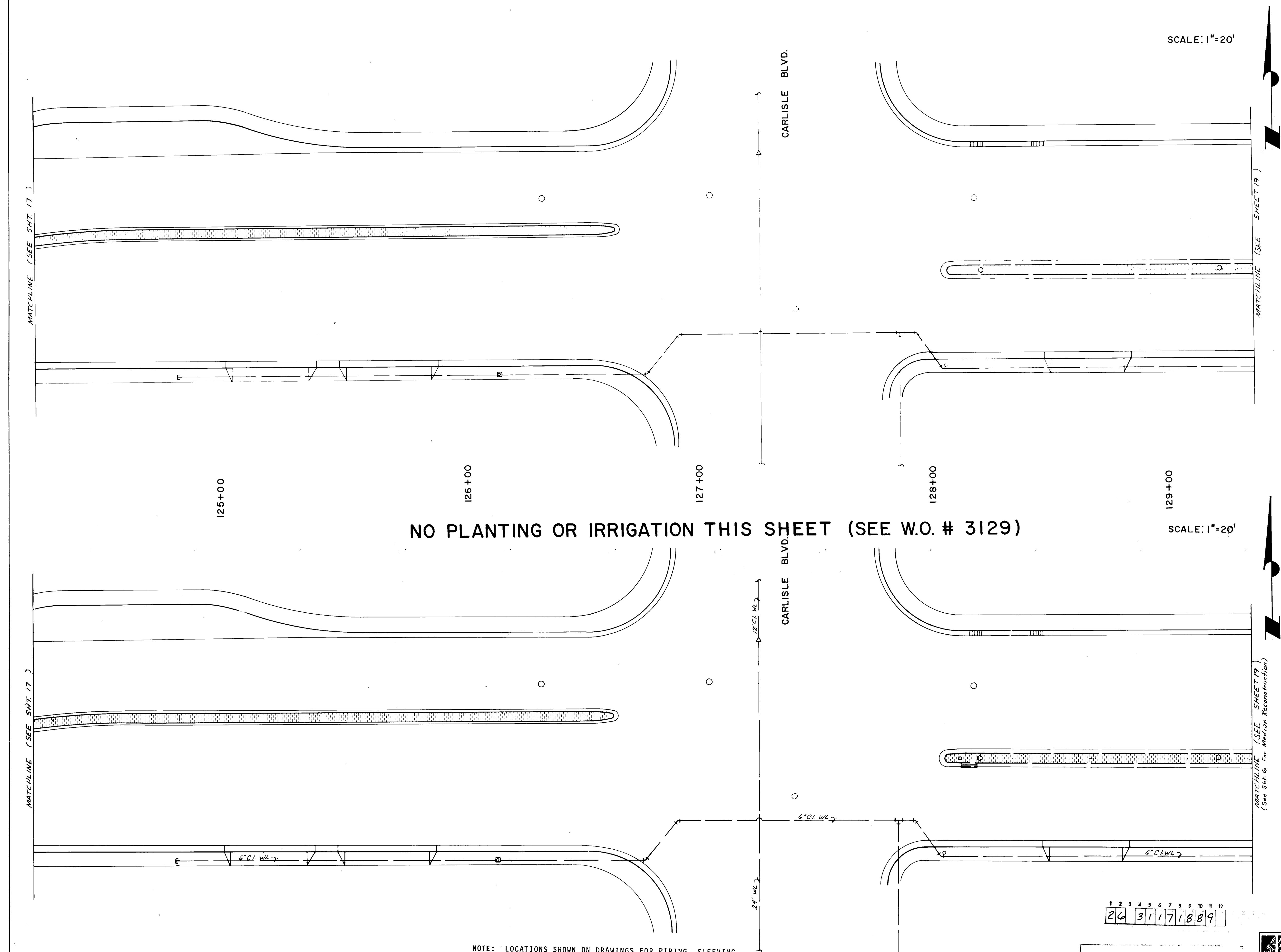




12-8-88

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RD NE. & LANDSCAPING ATION		
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SHEET 17 OF 29		

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CITY Engineer	<i>[Signature]</i>	<i>4/2/88</i>	Liquid Waste	<i>REBO</i>	<i>3/14/88</i>
A/E - Design	<i>[Signature]</i>		Traffic	<i>REBO</i>	<i>4/2/88</i>
A/E - Hydrology	<i>[Signature]</i>	<i>3/2/88</i>	Water	<i>REBO</i>	<i>3/14/88</i>
Parks & Recreation	<i>[Signature]</i>	<i>3/1/88</i>			
DRAWING NO	3117	MAP NO	H-16	SHEET	17 OF 29



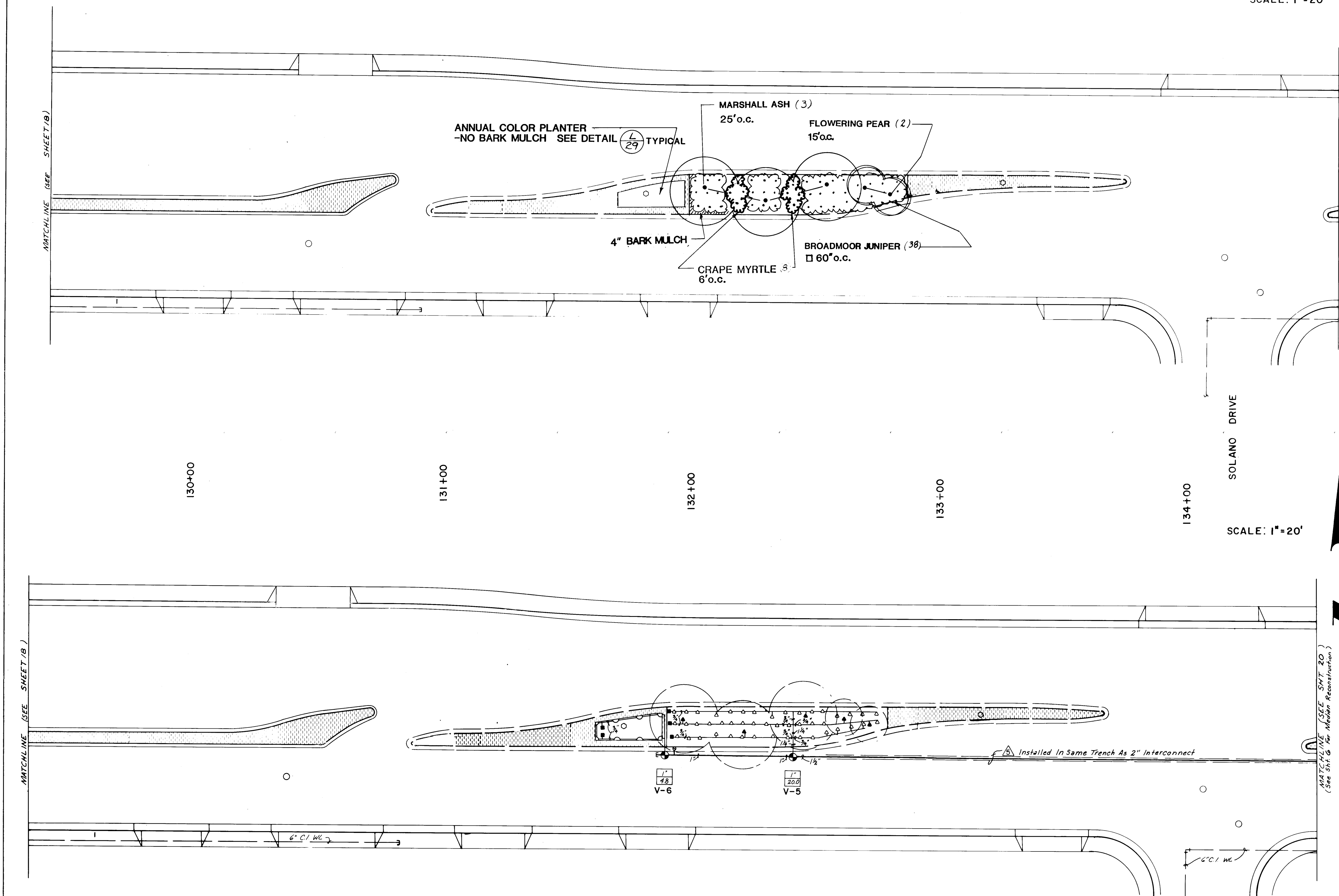
NOTE: LOCATIONS SHOWN ON DRAWINGS FOR PIPING, SLEEVING, METERS AND VALVES ARE SCHEMATIC. LOCATE EQUIPMENT WITHIN MEDIAN PLANTERS. LOCATE SLEEVED LINES WITHIN MEDIAN CURB WHEN POSSIBLE -- MINIMIZE INSTALLATION BENEATH ASPHALT PAVEMENT.

RECORD DATE: 12-8-88

Worley Associates

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT					
TITLE: MENAUL BOULEVARD NE. MEDIAN RECONSTRUCTION & LANDSCAPING LANDSCAPING & IRRIGATION					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ACE-Design	<i>[Signature]</i>	4/6/88	Liquid Waste	<i>[Signature]</i>	3/14/88
ACE-Hydrology	<i>[Signature]</i>	3/15/88	Traffic	<i>[Signature]</i>	4/6/88
Parks & Recreation	<i>[Signature]</i>	5/11/88	Water	<i>[Signature]</i>	3/14/88
DRAWING NO. 3117		MAP NO. H-16, H-17		SHEET 18 OF 29	

ENGINEER'S SEAL			SURVEY INFORMATION			BENCH MARKS			AS BUILT INFORMATION		
<i>[Signature]</i>			NO.	BY	DATE				DATE	BY	DATE
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SCALE: 1"=20'

SCALE: 1"=20'

NOTE: LOCATIONS SHOWN ON DRAWINGS FOR PIPING, SLEEVING, METERS AND VALVES ARE SCHEMATIC. LOCATE EQUIPMENT WITHIN MEDIAN PLANTERS. LOCATE SLEEVED LINES WITHIN MEDIAN CURB WHEN POSSIBLE -- MINIMIZE INSTALLATION BENEATH ASPHALT PAVEMENT.

INSTALL ONE 1/2 GPM BUBBLER PER SHRUB & ONE 1 GPM BUBBLER PER TREE

2. EACH PLANTER WILL HAVE A CURB DRAIN. SEE DETAIL SHT. 29.

CONSTRUCTION NOTES

- All median areas to be planted shall be excavated to a depth of 1 foot from top of curb excluding bench at curb. See typical median section Sheet 29. Soil removed shall be disposed of in an approved landfill and shall not be reused in this or any other landscape project because of sterilization.
 - All medians where planting occurs shall have a 10 mil PVC 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 utility lines. Damage to 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 Landscape Architect.
 - 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 Traffic Engineer, signs shall be incidental to the Contract.
 - Plants for annual color beds shall be installed by Owner and are not in this contract. Install irrigation in these areas as indicated.
 - Back fill for medians shall be 3 parts sandy loam, free of rocks greater than 1/2" diameter, debris, vegetation and trash (sample shall be approved by Landscape Architect) and 1 part ground bark mulch. Compact combined fill to Natural Density as determined by Engineer.
 - All planted areas of medians shall contain 1/4" deep shredded bark mulch. Sample to be approved by Landscape Architect.
 - Trees shall be 5 feet minimum from back of curb.
 - Numbers of plants are estimates only. Contractor is responsible for plants shown on plans. See Sheet 29 for dimensions from curb for plants.
- IRRIGATION NOTES
- At completion of the project, the Landscape Contractor shall coordinate the final controller program with Maintenance Division, Parks and Recreation Department, City of Albuquerque.
 - Water pressure on the site varies. Landscape Contractor shall verify pressure on the site for each system at tap (pressure is assumed to be 40 PSI or greater). Pressure at each irrigation head shall equal minimum of 20 PSI.
 - Plan locations of meters, main lines, master valves, irrigation valves, and sleeves are schematic. Locate each item on site in medians.
 - Each valved system shall have a manual drain installed at the low point of the main line and an air relief valve at the high point. See Detail 29.
 - All piping shall be sleeved under all pavement in 1/2" class 200 PVC pipe. 24 volt wires shall be sleeved in 1/2" class 200 PVC pipe.
 - There shall be one 1/4 gpm bubbler for each shrub 12" from the center of each plant on the uphill side of the plant, and one 1 gpm bubbler for each tree, 24" from the center of the tree on the uphill side.

IRRIGATION LEGEND

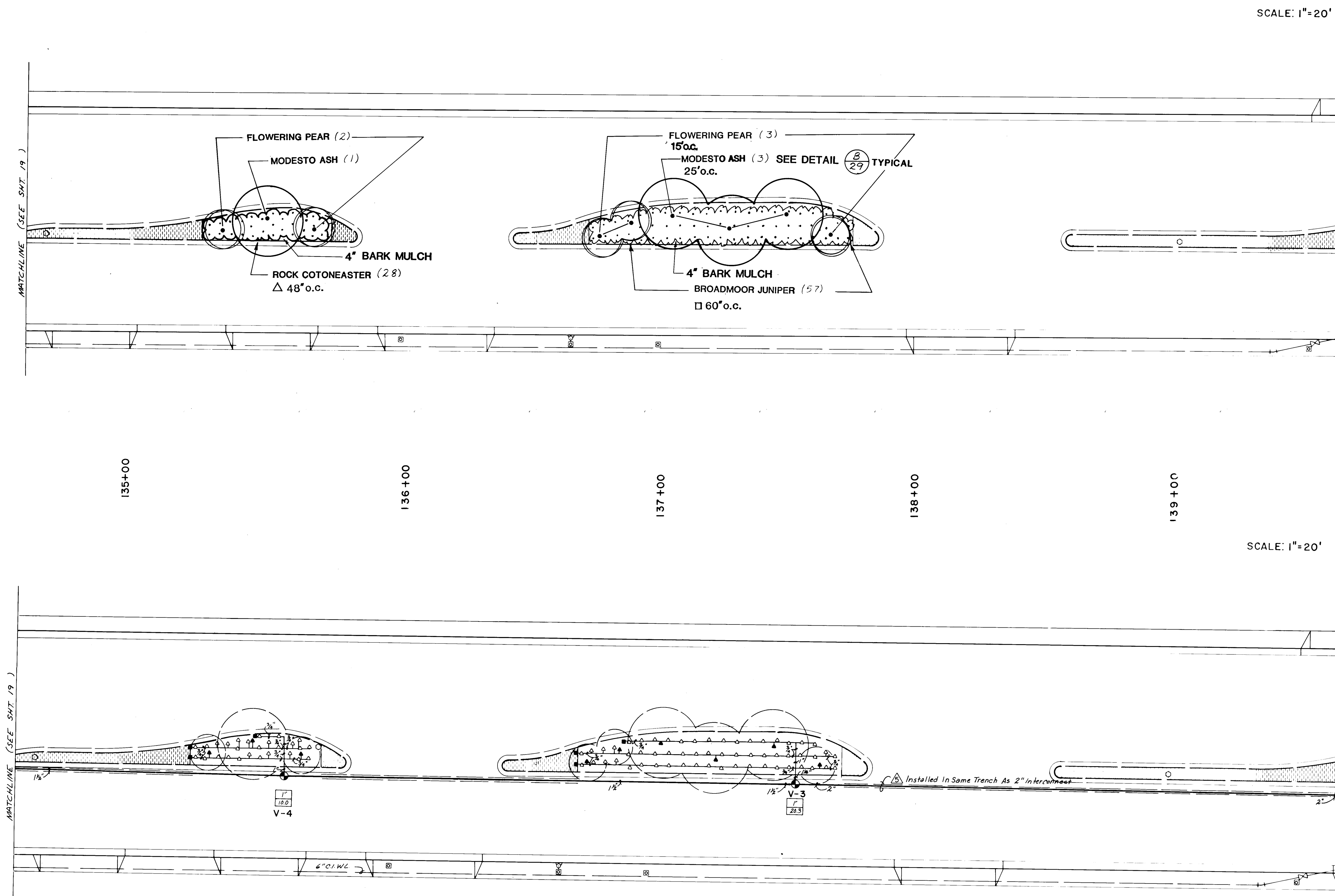
- Water Meter - Rockwell Sealed Register Meter sized as shown on plans. 3/4" total. Rockwell Sealed Register water meter sized as shown on plan. 10 total. Tap and Installation by City of Alb. (See drawing 239) City contract documents, cost, and coordination are the responsibility of the Contractor, Customer Service Dept. Ph. 505-768-2800.
- Controller - Rain Bird ISC Independent Station Computer Controller. Controller shall be housed in a concrete vault 18" x 18" x 18" as wfg. by Materials Inc., Current Electronics, Inc., freeze sensor shall be included. Controller size as shown on plans and as noted in Controller / Valve Legend - Sheet 29.
- Master Valve Assembly - See Detail 29. Assembly includes and following:
 - Rain Bird 1812-200 Brass Electric - 2"
 - Rain Bird Pressure Vacuum Breaker - PVB-200-R
 - King Automatic Drain
 - Hammond 1W-687 Brass Gate Valve - 2"
- Remote Control Valve - Rain Bird PE Series - See Detail 29. Size as shown on plans:
 - 1/2" Valve Size
 - 2" Valve Size
- Automatic Drain - King Auto Drain - Locate as shown on plans. See Detail 29.
- Manual Drain - Locate in field on mainline after each master valve (low point) and in lateral line after electric valve. See Details 29 & 24.
- Pressure Compensating Full Circle Bubbler - Rain Bird 1801 - 1/4 GPM - 1 per shrub, 12" from center of shrub on up hill side. See Detail 29.
- Pressure Compensating Full Circle Bubbler - Rain Bird 1808 - 1 GPM - 1 per tree, 24" from center of tree on up hill side. See Detail 29.
- 12" Pop-Up Spray Head - H - Rain Bird 1812 w/ B128 nozzle (pat # 20, radius = 10', gpm = .80, p/r = 1.54). See Detail 29.
- 12" Pop-Up Spray Head - D - Rain Bird 1812 w/ B120 nozzle (pat # 20, radius = 10', gpm = .40, p/r = .54). See Detail 29.
- Inverted Garden Valve - Champion I-40 at 18" below finish grade in Bass & Hayes 3/4 D valve box.
- Schedule 40 PVC Main Line - 30" bury, size as shown on plans.
- Schedule 40 PVC Lateral Line - 18" bury, size as shown of plan.
- Class 200 PVC Sleeve - place under all paving.

12-8-88

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT					
TITLE: MENAU BOULEVARD NE. MEDIAN RECONSTRUCTION & LANDSCAPING LANDSCAPING & IRRIGATION					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	11-11-88	Liquid Waste	<i>[Signature]</i>	3/14/88
A.C.E.-Design	<i>[Signature]</i>	11/11/88	Traffic	<i>[Signature]</i>	11-11-88
A.C.E.-Hydrology	<i>[Signature]</i>	11/11/88	Water	<i>[Signature]</i>	3/14/88
Parks & Recreation	<i>[Signature]</i>	11/11/88			
DRAWING NO.	3117	MAP NO.	H-17	SHEET	19 OF 29
DESIGNED BY M.B. DRAWN BY T.J.M./E.L.O. CHECKED BY K.W.					



LANDSCAPE ARCHITECTS
PLANNING # 44-111
3071 MENAU BOULEVARD NE.
ALBUQUERQUE, NM 87310
505-864-1111



SCALE: 1"=20'

SCALE: 1"=20'

NOTE: LOCATIONS SHOWN ON DRAWINGS FOR PIPING, SLEEVING, METERS AND VALVES ARE SCHEMATIC. LOCATE SLEEVED LINES WITHIN MEDIAN CURB WHEN POSSIBLE -- MINIMIZE INSTALLATION BENEATH ASPHALT PAVEMENT.

INSTALL ONE 1/2 GPM BUBBLER PER SHRUB & ONE 1 GPM BUBBLER PER TREE

EACH PLANTER WILL HAVE A CURB DRAIN. SEE DETAIL SHT. 29.

1 2 3 4 5 6 7 8 9 10 11 12
26 31 17 20 89

12-8-88

CONSTRUCTION NOTES

- All median areas to be planted shall be excavated to a depth of 3 feet from top of curb excluding bench at curb. See typical median section Sheet 29. Soil removed shall be disposed of in an approved landfill and shall not be reused in this or any other landscape project because of sterilization.
- All medians where planting occurs shall have a 10 mil PVC 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. Membrane to be concrete according to manufacturer's specifications and recommendations.
- Prior to construction, the Contractor shall locate all existing utility lines. Damage to 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 Landscape Architect.
- 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 Traffic Engineer, signs shall be incidental to the Contract.

PLANTING NOTES

- Plants for annual color beds shall be installed by Owner and are not in this contract. Install irrigation in these areas as indicated.
 - Back fill for medians shall be 3 parts sandy loam, free of rocks greater than 1" diameter, debris, vegetation and trash (sample shall be approved by Landscape Architect), and 1 part ground hard subsoil. Compact combined fill to Natural Density determined by Engineer.
 - All planted areas of medians shall contain 4" deep shredded bark mulch. Sample to be approved by Landscape Architect.
 - Trees shall be 5 feet minimum from back of curb.
 - Numbers of plants are estimates only. Contractor is responsible for plants shown on plans. See Sheet 29 for dimensions from curb for plants.
- IRRIGATION NOTES
- At completion of the project, the Landscape Contractor shall coordinate the final controller program with Maintenance Division, Parks and Recreation Department, City of Albuquerque.
 - Water pressure on the site varies. Landscape Contractor shall verify pressure on the site for each plant at top (pressure is assumed to be 65 PSI or greater). Pressure at each irrigation head shall equal minimum of 20 PSI.
 - Plan locations of meters, main lines, master valves, irrigation valves, and sleeves are schematic. Locate each line on site in medians.
 - Each valve assembly shall have a manual drain installed at the low point of the main line and an air relief valve at the high point. See Detail 29.
 - All piping shall be sleeved under all pavement in 4" class 200 PVC pipe. 24 volt wires shall be sleeved in 1 1/2" class 200 PVC pipe.
 - There shall be one 1/4 gpm bubbler for each shrub 12" from the center of each plant on the uphill side of the plant, and one 1 gpm bubbler for each tree, 24" from the center of the tree on the uphill side.

IRRIGATION LEGEND

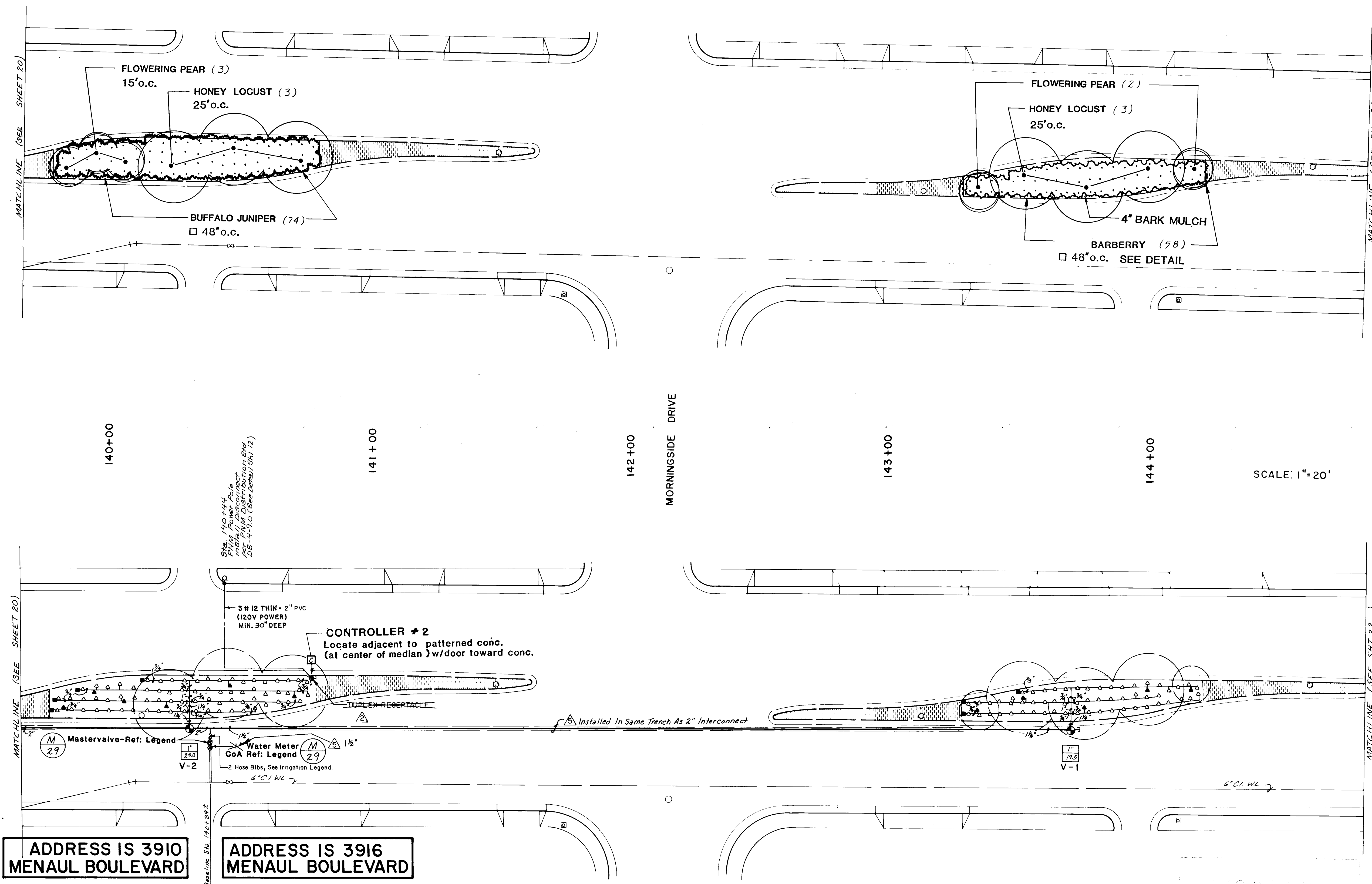
- Water Meter - Rockwell Sealed Register Meter sized as shown on plan. 3" total. Rockwell Sealed Register water meter sized as shown on plan. 10" total. Tap and installation by City of Alb. (see drawing 2363 City contract documents) cost and coordination are the responsibility of the Contractor, w/ Customer Service Dept. PH 505-768-2800.
- Controller - Rain Bird ISC Independent Station Computer Controller. Controller shall be housed in a concrete vault 48" high as w/ft. by Materials Inc.. Corrosion Electrolysis, Inc. freeze sensor shall be included. Controller size as shown on plans and as noted in Controller / Valve Legend - Sheet 29.
- Master Valve Assembly - See Detail 29. Assembly includes and follows:
- Rain Bird EFA-CP 200 Brass Electric - 2"
 - Rain Bird Pyramax Vacuum Breaker - PVB-200-8
 - King Automatic Drain
 - Hammond HV-487 Brass Gate Valve - 2"
- Remote Control Valve - Rain Bird FC Series - See Detail 29. Size as shown on plan.
- Automatic Drain - King Auto Drain - Locate as shown on plans. See Detail 29.
- Manual Drain - Locate in field on mainline after each master valve (flow point) and in lateral line after electric valve. See Detail 29.
- Pressure Compensating Full Circle Bubbler - Rain Bird 1801 - 1/4 GPM - 1 per shrub, 12" from center of shrub on up hill side. See Detail 29.
- Pressure Compensating Full Circle Bubbler - Rain Bird 1804 - 1 GPM - 1 per tree, 24" from center of tree on up hill side. See Detail 29.
- 12" Pop-Up Spray Head - 8 - Rain Bird 1812 w/ 812W nozzle (gpm = 20, radius = 10', gpm = .40, p/r = .54). See Detail 29.
- 12" Pop-Up Spray Head - 8 - Rain Bird 1812 w/ 812W nozzle (gpm = 20, radius = 10', gpm = .40, p/r = .54). See Detail 29.
- Inverted Garden Valve - Champion I-40 at 18" below finish grade in Base 1 Base 34 D valve box.
- Schedule 40 PVC Main Line - 30" bury, size as shown on plans.
- Schedule 40 PVC Lateral Line - 18" bury, size as shown on plans.
- Class 200 PVC Sleeve - place under all paving.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN		DATE	
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: MENAUL BOULEVARD NE
MEDIAN RECONSTRUCTION & LANDSCAPING
LANDSCAPING & IRRIGATION

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	THW	4/6/88	Liquid Waste	THW	3/14/88
A C E - Design	THW	4/6/88	Traffic	THW	4/6/88
A C E - Hydrology	THW	4/6/88	Water	THW	3/14/88
Parks & Recreation	THW	4/6/88			
DRAWING NO	3117		MAP NO	H-17	
			SHEET	20	29



SCALE: 1"=20'

SCALE: 1"=20'

CONSTRUCTION NOTES

1. All median areas to be planted shall be excavated to a depth of 3 feet from top of curb excluding bench at curb. See typical median section sheet 29. Soil removed shall be disposed of in an approved landfill and shall not be reused in this or any other landscape project because of sterilization.
2. All medians where planting occurs shall have a 10 mil PVC 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.
3. Prior to construction, the Contractor shall locate all existing utility lines. Damage to existing lines will be the responsibility of the Contractor.
4. 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 Landscape Architect.
5. The Landscape Contractor shall visit the site and analyze existing conditions and scope of work prior to bid.
6. Access signs shall be supplied to all businesses by the Contractor. As directed by the Traffic Engineer, signs shall be incidental to the Contract.

PLANTING NOTES

1. Plants for annual color beds shall be installed by Owner and are not in this contract. Install irrigation in these areas as indicated.
2. Back fill for medians shall be 3 parts sandy loam, free of rocks greater than 1" diameter, debris, vegetation and trash (sample shall be approved by Landscape Architect), and 1 part ground bark mulch. Compact combined fill to Natural Density as determined by Engineer.
3. All planted areas of medians shall contain 4" deep shredded bark mulch. Sample to be approved by Landscape Architect.
4. Trees shall be 5 feet minimum from back of curb.
5. Numbers of plants are estimates only. Contractor is responsible for plants shown on plans. See Sheet 29 for dimensions from curb for plants.

IRRIGATION NOTES

1. At completion of the project, the Landscape Contractor shall coordinate the final controller program with Maintenance Division, Parks and Recreation Department, City of Albuquerque.
2. Water pressure on the site varies. Landscape Contractor shall verify pressure on the site for each system at 10' (pressure is assumed to be 65 PSI or greater). Pressure at each irrigation head shall equal minimum of 20 PSI.
3. Plan locations of meters, main lines, master valves, irrigation valves, and shutoffs are schematic. Locate each item on site in medians.
4. Each valved system shall have a manual drain installed at the low point of the main line and an air relief valve at the high point. See Detail 29.
5. All piping shall be placed under all pavement in 4" class 200 PVC pipe. 24 volt wires shall be sleeved in 1 1/2" class 200 PVC pipe.
6. There shall be one 1/4 gpm bubbler for each shrub 12" from the center of each plant on the uphill side of the plant, and one 1 gpm bubbler for each tree, 24" from the center of the tree on the uphill side.

IRRIGATION LEGEND

- Water Meter - Rockwell Sealed Register Meter sized as shown on plan.
- Controller - Rain Bird ISC Independent Station Computer Controller. Controller shall be housed in a concrete vault (RMC) vault as req. by National Inst. Correct Electronics, Inc. freeze sensor shall be included. Controller size as shown on plans and as noted in Controller / Valve Legend - Sheet 29.
- Master Valve Assembly - See Detail 29. Assembly includes and follows:
 1. Rain Bird EPA-CP 200 Brass Electric - 2"
 2. Rain Bird Pressure Vacuum Breaker - PVB-200-R
 3. King Automatic Drain
 4. Hammond NY-587 Brass Gate Valve - 2"
- Branch Control Valve - Rain Bird FC Series - See Detail 29. Size as shown on plan.
- Automatic Drain - King Auto Drain - Locate as shown on plans. See Detail 29.
- Manual Drain - Locate in field on mainline after each master valve (low point) and in lateral line after electric valve. See Detail 29.
- Pressure Compensating Full Circle Bubbler - Rain Bird 1801 - 1/4 GPM - 1 per tree, 24" from center of tree on uphill side. See Detail 29.
- Pressure Compensating Full Circle Bubbler - Rain Bird 1804 - 1 GPM - 1 per shrub, 12" from center of shrub on uphill side. See Detail 29.
- 12" Pop-Up Spray Head - W - Rain Bird 1812 w/ 8120 nozzle (pat # 20, radius = 10', gpm = .30, p/r = 1.54). See Detail 29.
- 12" Pop-Up Spray Head - Q - Rain Bird 1812 w/ 8120 nozzle (pat # 20, radius = 10', gpm = .40, p/r = .54). See Detail 29.
- Inverted Garden Valve - Champion I-40 at 18" below finish grade in base & Hayes 3A D valve box.
- 2 in a single box, locate in line immediately after Master Valve.
- Schedule 40 PVC Main Line - 30" bury, size as shown on plans.
- Schedule 40 PVC Lateral Line - 18" bury, size as shown on plan.
- Class 200 PVC Sleeve - place under all paving.

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL			REVISIONS			DESIGN		
DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.
12/88	AS BUILT		12/88	AS BUILT		12/88	AS BUILT		12/88	AS BUILT		12/88	AS BUILT		12/88	AS BUILT	
11/88	CHANGE ORDER NO. 1		11/88	CHANGE ORDER NO. 1		11/88	CHANGE ORDER NO. 1		11/88	CHANGE ORDER NO. 1		11/88	CHANGE ORDER NO. 1		11/88	CHANGE ORDER NO. 1	
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
DESIGNED BY	M.B.		DESIGNED BY	M.B.		DESIGNED BY	M.B.		DESIGNED BY	M.B.		DESIGNED BY	M.B.		DESIGNED BY	M.B.	
DRAWN BY	T.M./E.L.O.		DRAWN BY	T.M./E.L.O.		DRAWN BY	T.M./E.L.O.		DRAWN BY	T.M./E.L.O.		DRAWN BY	T.M./E.L.O.		DRAWN BY	T.M./E.L.O.	
CHECKED BY	K.W.		CHECKED BY	K.W.		CHECKED BY	K.W.		CHECKED BY	K.W.		CHECKED BY	K.W.		CHECKED BY	K.W.	

ADDRESS IS 3910 MENAUL BOULEVARD

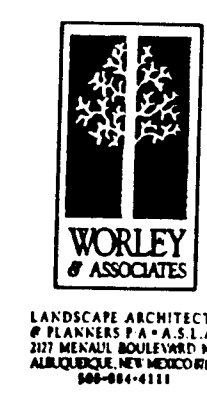
ADDRESS IS 3916 MENAUL BOULEVARD

NOTE: LOCATIONS SHOWN ON DRAWINGS FOR PIPING, SLEEVING, METERS AND VALVES ARE SCHEMATIC. LOCATE EQUIPMENT WITHIN MEDIAN PLANTERS. LOCATE SLEEVED LINES WITHIN MEDIAN CURB WHEN POSSIBLE -- MINIMIZE INSTALLATION BENEATH ASPHALT PAVEMENT.

INSTALL ONE 1/4 GPM BUBBLER PER SHRUB & ONE 1 GPM BUBBLER PER TREE

EACH PLANTER WILL HAVE A CURB DRAIN. SEE DETAIL SHT. 29

1 2 3 4 5 6 7 8 9 10 11 12
26 31 17 21 89



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT					
TITLE: MENAUL BOULEVARD NE MEDIAN RECONSTRUCTION & LANDSCAPING LANDSCAPING & IRRIGATION					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ACE - Design	DATE	4/6/88	Liquid Waste	DATE	3/14/88
ACE - Hydrology	DATE	3/15/88	Traffic	DATE	3/14/88
Parks & Recreation	DATE	3/15/88	Water	DATE	3/14/88
DRAWING NO.	3117	MAP NO.	H-17	SHEET	21
OF					29



SCALE: 1" = 20'



CITY OF ALBUQUERQUE									
PUBLIC WORKS DEPARTMENT									
TITLE: MENAU BOULEVARD NE.									
MEDIAN RECONSTRUCTION & LANDSCAPING									
LANDSCAPING & IRRIGATION									

F.D.A. JOB NO. 931.11

K. P. M. M.

MATCHLINE (SEE SHEET 22)

MATCHLINE (SEE SHEET 22)

SCALE: 1" = 20'

SCALE: 1" = 20'

NO PLANTING OR IRRIGATION THIS SHEET

MONTECLAIRE DRIVE

MONTECLAIRE DRIVE

WASHINGTON STREET

WASHINGTON STREET

WASHINGTON STREET

WASHINGTON STREET

MATCHLINE (SEE SHEET 24)
(See Sht. B For Median Reconstruction)

NOTE: LOCATIONS SHOWN ON DRAWINGS FOR PIPING, SLEEVING, METERS AND VALVES ARE SCHEMATIC. LOCATE EQUIPMENT WITHIN MEDIAN PLANTERS. LOCATE SLEEVED LINES WITHIN MEDIAN CURB WHEN POSSIBLE -- MINIMIZE INSTALLATION BENEATH ASPHALT PAVEMENT.

1 2 3 4 5 6 7 8 9 10 11 12
26 31 17 23 8 9

12-8-88



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT					
TITLE: MENAUL BOULEVARD NE. MEDIAN RECONSTRUCTION & LANDSCAPING LANDSCAPING & IRRIGATION					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4/14/88	Liquid Waste	<i>[Signature]</i>	3/14/88
A.C.E. - Design	<i>[Signature]</i>	4/14/88	Traffic	<i>[Signature]</i>	4/14/88
A.C.E. - Hydrology	<i>[Signature]</i>	3/15/88	Water	<i>[Signature]</i>	3/14/88
Parks & Recreation	<i>[Signature]</i>	3/15/88			
DRAWING NO.	3117	MAP NO.	H-17	SHEET	23 OF 29

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
	NO. DATE BY	NO. BY DATE	NO. BY DATE	AS BUILT INFORMATION BY: Universal Constructors Inc. DATE:		MICRO-FILM INFORMATION BY: ELO DATE:	
				REVISIONS NO. DATE BY		REVISIONS NO. DATE BY	
				DESIGNED BY: M.B. DRAWN BY: T.J.M./E.L.O. CHECKED BY: K.W.		DESIGNED BY: M.B. DRAWN BY: T.J.M./E.L.O. CHECKED BY: K.W.	
				DATE		DATE	



SCALE: 1"=20'

CONSTRUCTION NOTES

- | | | | | | |
|---|--|------|------|------|------|
| 1. All median areas to be planted shall be excavated to a depth of 3 feet from top of curb excluding bench at curb. See typical median section Sheet 29. Soil removed shall be disposed of in an approved land fill and shall not be reused in this or any other landscape project because of sterilization. | AS BUILT INFORMATION
N.T.H. Inc. Universal Constructors, Inc.
A/E/C by: Fred Denney and Associates
INSPECTION BY: C.O.A.
SCHEDULED BY: C.O.A.
FIELD VERIFICATION BY: C.O.A.
DRAWINGS BY: E.L.O.
CONNECTED BY: C.O.A.
MICRO-FILM INFORMATION
RECORDED BY: | DATE | DATE | DATE | DATE |
| 2. All medians where planting occurs shall have a 10 mil PVC 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 excavation. The membrane to concrete according to manufacturer's specifications and recommendations. | | DATE | DATE | DATE | DATE |
| 3. Prior to construction, the Contractor shall locate all existing utilities and tie to existing lines will be the responsibility of the Contractor. | | DATE | DATE | DATE | DATE |
| 4. Adjustments in layout of landscape features as required to meet variations between the plan dimensions/graphics and existing conditions shall be made in the field under the supervision of the Landscape Architect. | | DATE | DATE | DATE | DATE |
| 5. The Landscape Contractor shall visit the site and analyze existing conditions and scope of work prior to bid. | | DATE | DATE | DATE | DATE |
| 6. Access signs shall be supplied to all businesses by the contractor. As the Traffic Engineer, signs shall not be incidental to the Contract. | | DATE | DATE | DATE | DATE |

PLANTING NOTES

1. Plants for annual color beds shall be installed by Owner and Contractor in accordance with this contract. Irrigation in these areas not indicated.
2. Back fill for medians shall be 3 parts sandy loam, free of rocks greater than 1" diameter, debris, vegetation and trash. Backfill shall be approved by Landscape Architect, and 5% shall be compacted. Compact combined fill to Natural Density as determined by Engineer.
3. All plants for medians shall contain a 1" deep shredded bark mulch. Sample to be approved by Landscape Architect.
4. Trees shall be 5 feet minimum from back of curb.
5. Numbers of plants are estimates only. Contractor is responsible for determining quantities on plans. See Sheet 28 for dimensions from curb for plants.

IRRIGATION NOTE:

1. At completion of the project, the Landscape Contractor shall coordinate the final controller program with Maintenance Division, Parks and Recreation Department, City of Albuquerque.
2. Water pressure on the site varies. Landscape Contractor shall verify pressure on the site for each system at peak (pressure) of 60 PSI or greater. Pressure at each irrigation head shall equal minimum of 20 PSI.
3. Plan locations of mains, main lines, master valves, irrigation valves, and alveers are schematic. Locate each item on site.
4. Each valve system shall have a manual drain installed at the low point of the main line and an air relief valve at the high point. See Detail  
5. All piping shall be sleeved under all pavement in 4" class PVC pipe. 20 volt wires shall be sleeved in 1 1/2" class PVC pipe.
6. There shall be one 1/4" gas bubbler for each shrub 12" from the center of each plant on the uphill side of the plant, and one gas bubbler for each tree, 24" from the center of the tree on the uphill side of the tree.

IRRIGATION LEGEND

- Water Meter - Rockwell Sealed Register Meter sized as shown on plan.
3. Total, Rockwell Sealed Register meter water sized as shown on plan, 10 total. Tap and Installation by City of Albion (see drawing 238) City contract documents) cost and coordination are the responsibility of the Contractor, w/Customer Service Dept. Ph. 505 728-2400.
- Controller - Rain Bird RC Independent Station Computer Control**
Controller shall be housed in a concrete vault PFGMC vault as mfg. by materials Inc. Current Electronics, Inc. Controller shall be included. Controller size as shown on plans and as noted in Controller / Valve Legend - Sheet 29
- Waster Valve Assembly - See Detail (29)**
Assemble includes and following
1. Rain Bird WFA-CP 200 Brass Electric - F
 2. Rain Bird Pressure Vacuum Breaker - PVB-200 - F
 3. King Automatic Drain
 4. Remount WFA-CP Drain Size Valve - F
- Remote Control Valve - Rain Bird RC Series - See Detail (29)**
Size as shown on plan
1. Valve Size (29)
- Automatic Valve - King Auto Drain - Locate as shown on plan. See Detail (29)**
- Manual Drain - Locate in field on mainline after each mainline valve (low point) and in lateral line after electric valve. See Detail (29)**
- Pressure Compensating Full Circle Submeter - Rain Bird 1801 - 1/4" GWN - 1 per shrub, 12" from center of shrub on up hill side. See Detail (29)**
- Pressure Compensating Full Circle Bubblers - Rain Bird 1804 - GWN - 1 per tree, 24" from center of tree on up hill side. See Detail (29)**
- 12" Pop-Up Spray Head - 8 - Rain Bird 1812 w/ B12H nozzle (pat 20, radius = 10', gpm = 80, p/p = 1.54). See Detail (29)**
- 12" Pop-Up Spray Head - 3 - Rain Bird 1812 w/ B120 nozzle (pat 20, radius = 10', gpm = 70, p/p = .58). See Detail (29)**
- Inverted Garden Valve - Champion L-40 at 18" below finish grade in Base & Hays 3/4 D valve box.**
- Schedule 40 PFC Rain Line - 30" bury, size as shown on plans.**
- Schedule 40 PFC Lateral Line - 18" bury, size as shown on plans.**
- Class 200 PFC Meters - place under all paving.**

[illegible]

Leah M. Dwyer

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

**TITLE: MENAUL BOULEVARD NE.
MEDIAN RECONSTRUCTION & LANDSCAPING
LANDSCAPING & IRRIGATION**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ACE-Engineer	<i>DMH</i>	<i>4/1/88</i>	Liquid Waste	<i>REBO</i>	<i>3/4/88</i>
ACE - Design	<i>DMH</i>	<i>"</i>	Traffic	<i>DMH</i>	<i>4/6/88</i>
ACE -Hydrology	<i>W.A. R.H.</i>	<i>3/5/88</i>	Water	<i>REBO</i>	<i>3/4/88</i>
Parks & Recreation	<i>J. Mully</i>	<i>13/11/88</i>			
DRAWING NO.	3117	MAP NO. H-17	SHEET 24	OF 29	

F.D.A. JOB NO. 931.11

NOTE: LOCATIONS SHOWN ON DRAWINGS FOR PIPING, SLEEVING, METERS AND VALVES ARE SCHEMATIC. LOCATE EQUIPMENT WITHIN MEDIAN PLANTERS. LOCATE SLEEVED LINES WITHIN MEDIAN CURB WHEN POSSIBLE -- MINIMIZE INSTALLATION BENEATH ASPHALT PAVEMENT.

**INSTALL ONE 1/4 GPM BUBBLER PER SHRUB &
ONE 1 GPM BUBBLER PER TREE**

△ 2 EACH PLANTER WILL HAVE A CURB DRAIN
SEE DETAIL SHT. 29.

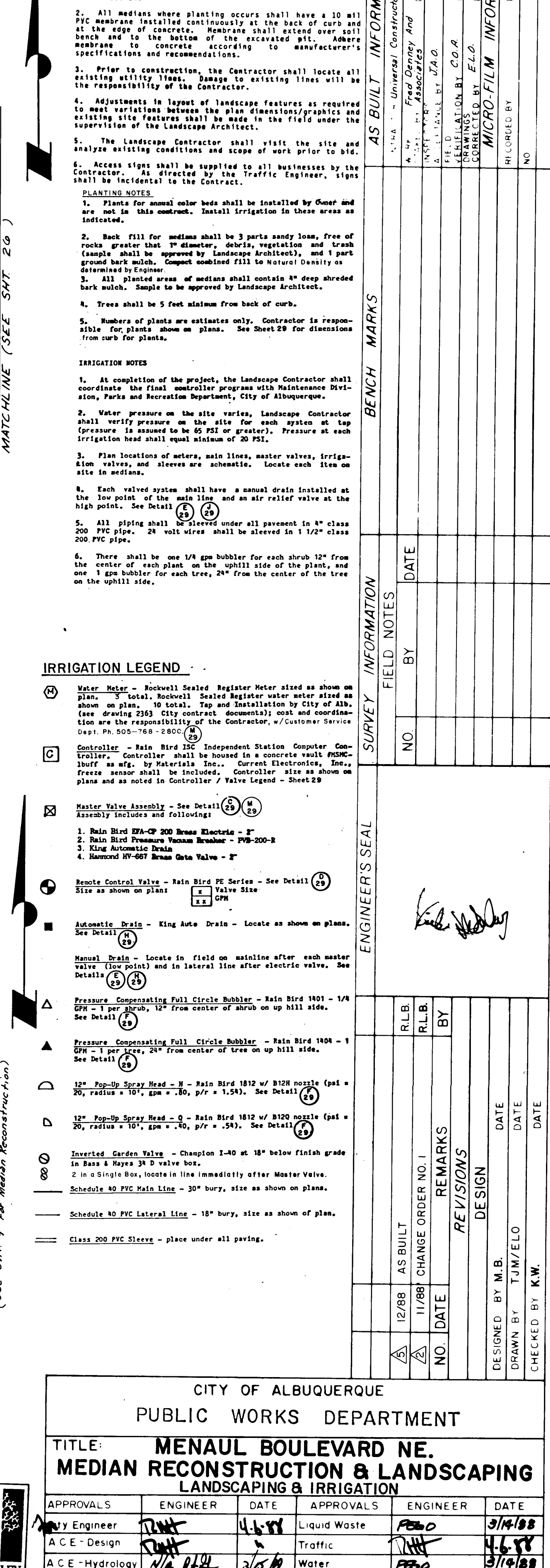
RECORD DRAWING
Date: 12-8-88



**WORLEY
& ASSOCIATES**

LANDSCAPE ARCHITECTS
PLANNERS P.A. & S.

MAP NO.

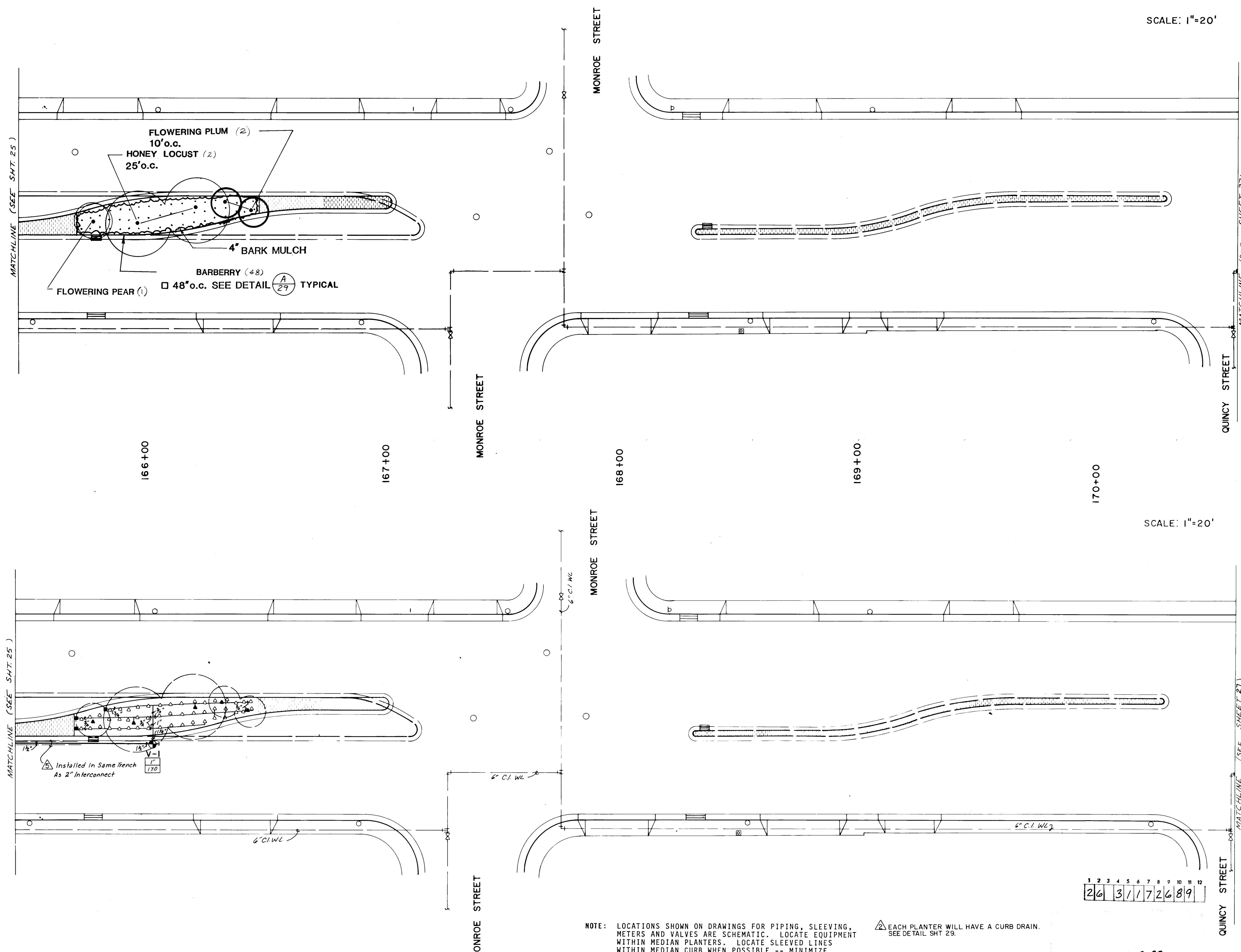


**INSTALL ONE 1/4 GPM BUBBLER PER SHRUB &
ONE 1 GPM BUBBLER PER TREE**

Date: **12-8-88**

LANDSCAPE ARCHITECTS
PLANNERS P/A • A.S.L.
2177 MENAUL BOULEVARD
ALBUQUERQUE, NEW MEXICO 87105
505-884-4111

CITY OF ALBUQUERQUE					
PUBLIC WORKS DEPARTMENT					
TITLE: MENAU BOULEVARD NE. MEDIAN RECONSTRUCTION & LANDSCAPING LANDSCAPING & IRRIGATION					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	<i>4/6/88</i>	Liquid Waste	<i>FEBO</i>	<i>3/14/88</i>
A C E - Design	<i>[Signature]</i>	<i>4/6/88</i>	Traffic	<i>[Signature]</i>	<i>4/6/88</i>
A C E - Hydrology	<i>4/6/88</i>	<i>4/6/88</i>	Water	<i>FEBO</i>	<i>3/14/88</i>
Parks & Recreation	<i>[Signature]</i>	<i>3/1/88</i>			
DRAWING NO.	3117		MAP NO.	H-17	
			SHEET	OF	25 29



NOTE: LOCATIONS SHOWN ON DRAWINGS FOR PIPING, SLEEVING, METERS AND VALVES ARE SCHEMATIC. LOCATE SLEEVED LINES WITHIN MEDIAN PLANTERS. LOCATE SLEEVED LINES WITHIN MEDIAN CURB WHEN POSSIBLE -- MINIMIZE INSTALLATION BENEATH ASPHALT PAVEMENT.

INSTALL ONE 1/4 GPM BUBBLER PER SHRUB & ONE 1 GPM BUBBLER PER TREE

EACH PLANTER WILL HAVE A CURB DRAIN. SEE DETAIL SHT 29.

12-8-88

SCALE: 1"=20'

SCALE: 1"=20'

CONSTRUCTION NOTES

- All median areas to be planted shall be excavated to a depth of 3 feet from top of curb excluding bench at curb. See typical median section sheet 29. Soil removed shall be disposed of in an approved landfill and shall not be reused in this or any other landscape project because of sterilization.
- All medians where planting occurs shall have a 10 mil PVC 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 utility lines. Damage to 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 Landscape Architect.
- 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 Traffic Engineer, signs shall be incidental to the Contract.

IRRIGATION NOTES

- At completion of the project, the Landscape Contractor shall coordinate the final controller program with Maintenance Division, Parks and Recreation Department, City of Albuquerque.
- Water pressure on the site varies. Landscape Contractor shall verify pressure on the site for each system at tap (pressure is assumed to be 65 PSI or greater). Pressure at each irrigation head shall equal minimum of 20 PSI.
- Plan locations of water, main lines, master valves, irrigation valves, and sleeves are schematic. Locate each item on site in medians.
- Each valved system shall have a manual drain installed at the low point of the main line and an air relief valve at the high point. See Detail 29.
- All piping shall be installed under all pavement in 4" class 200 PVC pipe. 24 volt wires shall be sleeved in 1 1/2" class 200 PVC pipe.
- There shall be one 1/4 gpm bubbler for each shrub 12" from the center of each plant on the uphill side of the plant, and one 1 gpm bubbler for each tree, 24" from the center of the tree on the uphill side.

IRRIGATION LEGEND

- Water Meter - Rockwell Sealed Register Meter sized as shown on plan. 3" total. Rockwell Sealed Register water meter sized as shown on plan. 10" total. Tap and installation by City of Alb. (see drawing 253 City contract documents) cost and coordination are the responsibility of the Contractor, w/Customer Service Dept. Ph. 505-768-2800.
- Controller - Rain Bird ISC Independent Station Computer Controller. Controller shall be housed in a concrete vault 60x60x100" as mfg. by Waterfalls Inc. Current electronic, 24v. freeze sensor shall be included. Controller size as shown on plans and as noted in Controller / Valve Legend - Sheet 29.
- Master Valve Assembly - See Detail 29. Assembly includes and following:
 - 1. Rain Bird EPA-CP 200 Brass Electric - 2"
 - 2. Rain Bird Pressure Vacuum Breaker - PVB-200-R
 - 3. King Automatic Drain
 - 4. Hammer HV-667 Brass Gate Valve - 2"
- Remote Control Valve - Rain Bird PE Series - See Detail 29. Size as shown on plan.
- Automatic Drain - King Auto Drain - Locate as shown on plans. See Detail 29.
- Manual Drain - Locate in field on mainline after each master valve (low point) and in lateral line after electric valve. See Details 29 & 30.
- Pressure Compensating Full Circle Bubbler - Rain Bird 1401 - 1/4 GPM - 1 per shrub, 12" from center of shrub on up hill side. See Detail 29.
- Pressure Compensating Full Circle Bubbler - Rain Bird 1404 - 1 GPM - 1 per tree, 24" from center of tree on up hill side. See Detail 29.
- 12" Pop-Up Spray Head - H - Rain Bird 1812 w/ B12H nozzle (psi = 20, radius = 10', gpm = .80, p/r = 1.54). See Detail 29.
- 12" Pop-Up Spray Head - Q - Rain Bird 1812 w/ B12Q nozzle (psi = 20, radius = 10', gpm = .80, p/r = .54). See Detail 29.
- Inverted Garden Valve - Champion I-40 at 18" below finish grade in Bass & Hayes 38 D valve box.
- Schedule 40 PVC Main Line - 30" bury, size as shown on plans.
- Schedule 40 PVC Lateral Line - 18" bury, size as shown of plan.
- Class 200 PVC Sleeve - place under all paving.

AS BUILT INFORMATION

DATE	BY	DATE	BY
12/88	AS BUILT	11/88	CHANGE ORDER NO. 1

REVISIONS

NO.	DATE	REVISIONS
1	12/88	DESIGN
2	11/88	DESIGN

DESIGNED BY: M.B. DATE: 3/14/88
DRAWN BY: T.J.M./E.O. DATE: 3/14/88
CHECKED BY: K.W. DATE: 3/14/88

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

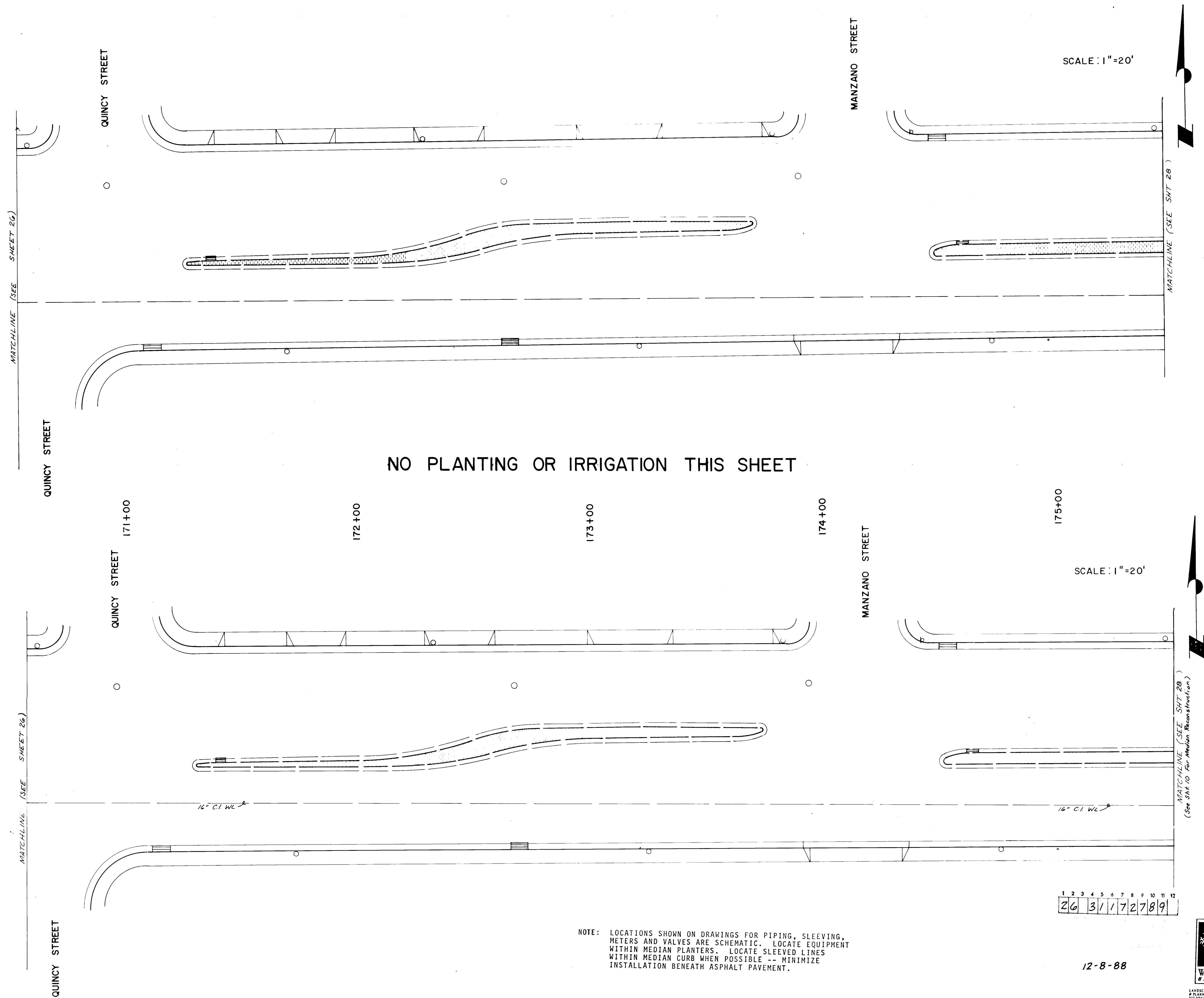
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MEDIAN RECONSTRUCTION & LANDSCAPING
LANDSCAPING & IRRIGATION**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[Signature]	4-6-88	Liquid Waste	[Signature]	3/14/88
A.C.E. Design	[Signature]	4-6-88	Traffic	[Signature]	4-6-88
A.C.E. Hydrology	[Signature]	3/15/88	Water	[Signature]	3/14/88
Parks & Recreation	[Signature]	3/15/88			

DRAWING NO. **3117** MAP NO. **H-17** SHEET **26** OF **29**

LANDSCAPE ARCHITECT
PLANNERS P.A. & ASSOCIATES
107 MENAU BOULEVARD NE.
ALBUQUERQUE, NM 87101

F.D.A. JOB NO. 931.11



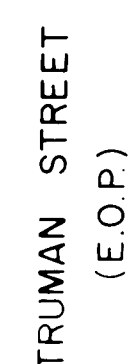
NOTE: LOCATIONS SHOWN ON DRAWINGS FOR PIPING, SLEEVING, METERS AND VALVES ARE SCHEMATIC. LOCATE EQUIPMENT WITHIN MEDIAN PLANTERS. LOCATE SLEEVED LINES WITHIN MEDIAN CURB WHEN POSSIBLE -- MINIMIZE INSTALLATION BENEATH ASPHALT PAVEMENT.

12-8-88



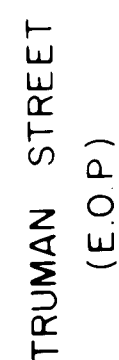
CITY OF ALBUQUERQUE					
PUBLIC WORKS DEPARTMENT					
TITLE: MENAUL BOULEVARD NE. MEDIAN RECONSTRUCTION & LANDSCAPING LANDSCAPING & IRRIGATION					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4-6-88	Liquid Waste	<i>[Signature]</i>	5/14/88
A C E - Design	<i>[Signature]</i>		Traffic	<i>[Signature]</i>	4-6-88
A C E - Hydrology	<i>[Signature]</i>	3/5/88	Water	<i>[Signature]</i>	5/14/88
Parks & Recreation	<i>[Signature]</i>	5/11/88			
DRAWING NO. 3117	MAP NO. H-17		SHEET 27 OF 29		

[illegible]



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77+00



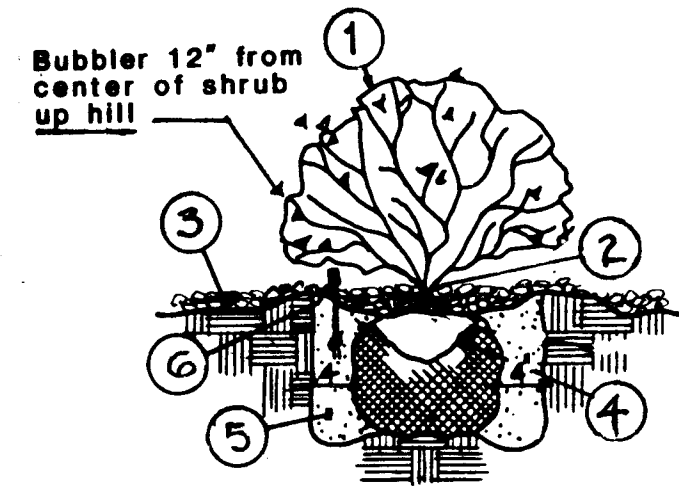
NOTE: LOCATIONS SHOWN ON DRAWINGS FOR PIPING, SLEEVING, METERS AND VALVES ARE SCHEMATIC. LOCATE EQUIPMENT WITHIN MEDIAN PLANTERS. LOCATE SLEEVED LINES WITHIN MEDIAN CURB WHEN POSSIBLE -- MINIMIZE INSTALLATION BENEATH ASPHALT PAVEMENT.

12-8-88



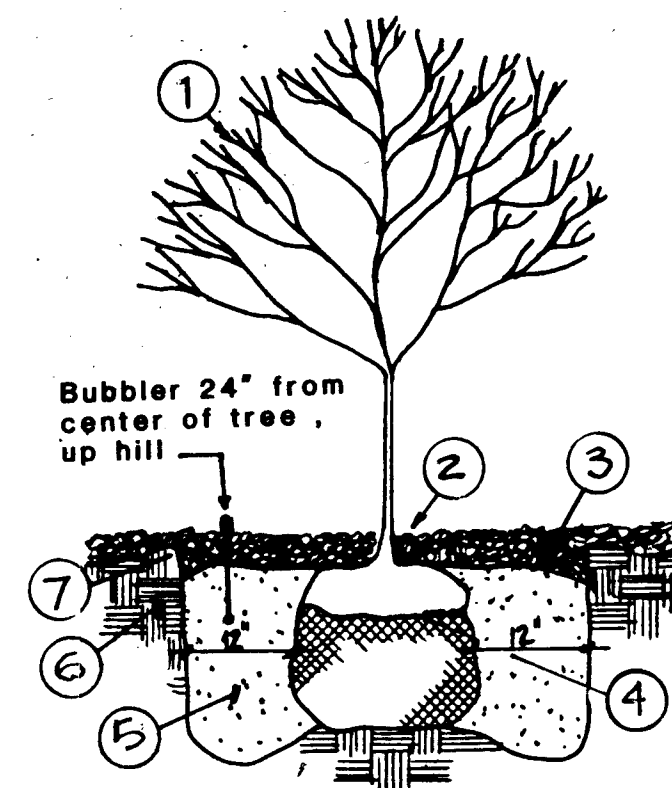
CITY OF ALBUQUERQUE					
PUBLIC WORKS DEPARTMENT					
TITLE: MENAUL BOULEVARD NE. MEDIAN RECONSTRUCTION & LANDSCAPING LANDSCAPING & IRRIGATION					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4-2-88	Liquid Waste	<i>[Signature]</i>	5/1/88
A.C.E. - Design	<i>[Signature]</i>	"	Traffic	<i>[Signature]</i>	4-6-88
A.C.E. - Hydrology	<i>[Signature]</i>	3/5/88	Water	<i>[Signature]</i>	5/1/88
Parks & Recreation	<i>[Signature]</i>	5/11/88			
DRAWING NO.	3117		MAP NO.	H-17	
			SHEET	OF	
			28		29

ENGINEER'S SEAL						SURVEY INFORMATION	BENCH MARKS	AS BUILT INFORMATION
						FIELD NOTES		
						NO	BY	DATE
						A.S.T.M. Fred Barney And Associates DATE		
						A.S.T.M. J.A.O. DATE		
						F.L.G. C.O.A. DATE		
						DRAWINGS DATE		
						CORRECTED BY ELO DATE 12/88		
						MICRO-FILM INFORMATION		
						MICROFILM DATE		
						NO		



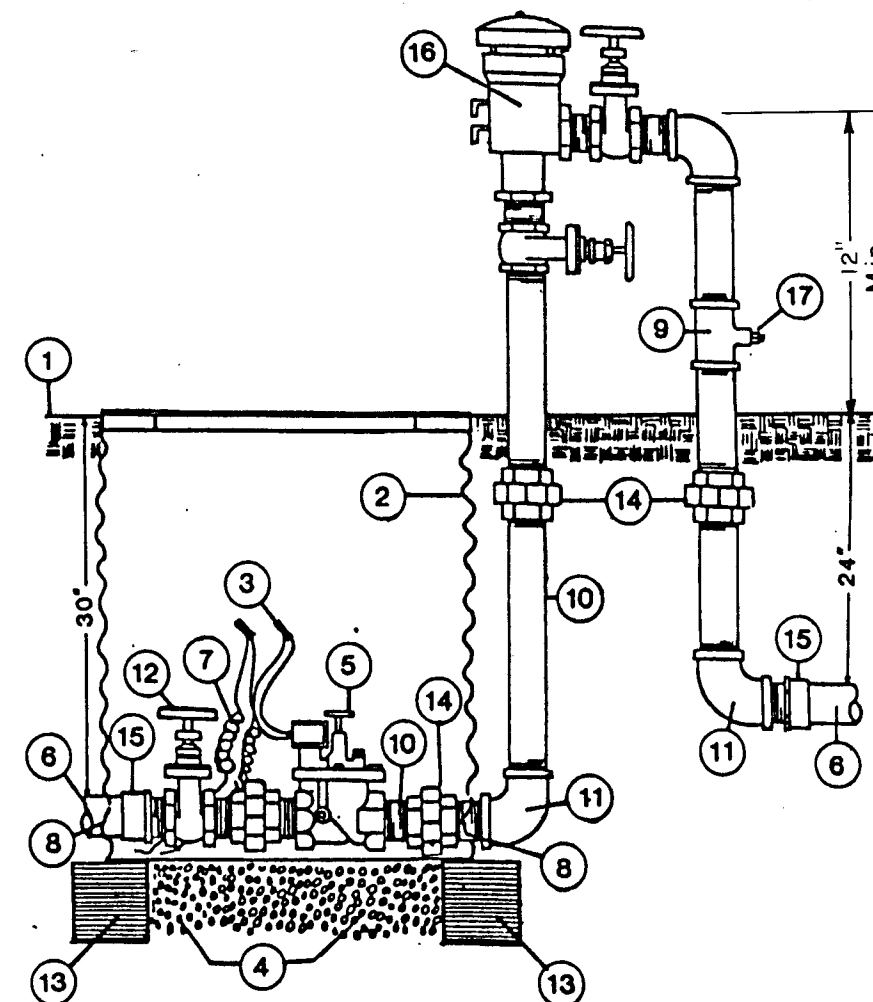
- 1 SHRUB LOCATION & SPECIES AS PER PLAN
- 2 PLANT AT SAME DEPTH AS IN NURSERY
- 3 4" DEEP BARK MULCH THROUGHOUT PLANTER - EXCEPT IN EARTH SAUCE. MULCH=2"
- 4 REMOVE TOP/OF BURLAP FROM ROOT BALL
- 5 BACKFILL AND SOIL CONDITION-REF. SPECS.
- 6 EARTH SAUCE - 2" DEEP BARK MULCH WITHIN SAUCE.

A/29 SHRUB PLANTING N.T.S.



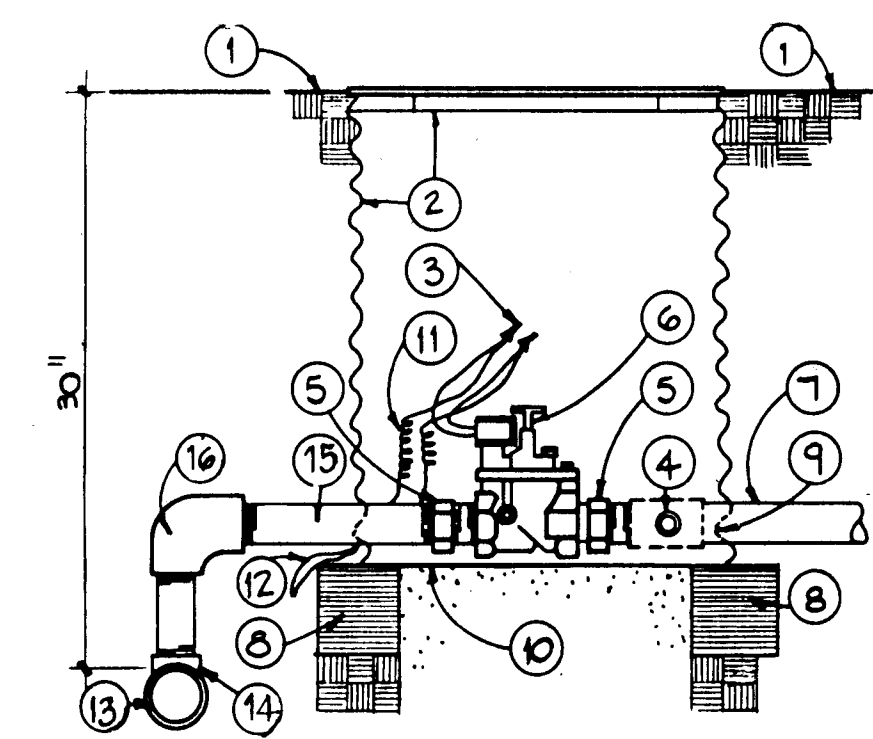
- 1 TREE LOCATION & SPECIES AS PER PLAN
- 2 PLANT w/2" OF ROOT BALL ABOVE FLOOR OF BASIN w/2" OF BARK COVERING TOP OF BAIL
- 3 4" DEEP BARK MULCH THROUGHOUT PLANTER
- 4 REMOVE BASKET OR TOP / OF BURLAP FROM ROOTBALL
- 5 BACKFILL & SOIL AMENDMENT - REFERENCE SPECS.
- 6 85% COMPACTED FILL - REF: CONST.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

B/29 TREE PLANTING N.T.S.



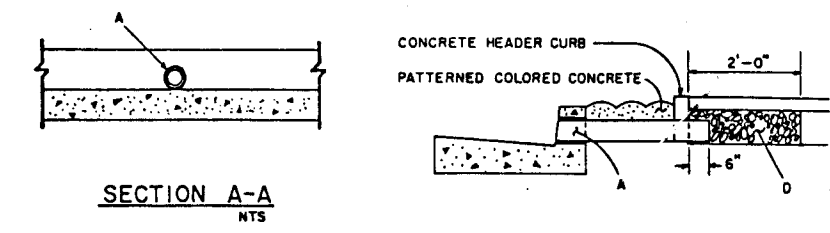
- 1 FINISH GRADE
- 2 BASS & HAYS VALVE BOX 34 D
- 3 NO. 3576 SCOTCH LOK CONNECTORS
- 4 2 CU. FT. 1" DIA. WASHED ROCK
- 5 BRASS ELECTRIC CONTROL VALVE
- 6 PVC MAINLINE
- 7 3/8" WIRE EXPANSION COIL
- 8 CUT OUT FOR MAIN LINE
- 9 GALV. TEE
- 10 GALV. NIPPLE (TY P)
- 11 GALV. ELL
- 12 BRASS GATE VALVE
- 13 8"x8"x16" SOLID CMU
- 14 UNION
- 15 PVC MALE ADAPTER
- 16 PRESSURE VACUUM BREAKER
- 17 AUTOMATIC DRAIN

C/29 MASTER VALVE ASSEMBLY N.T.S.



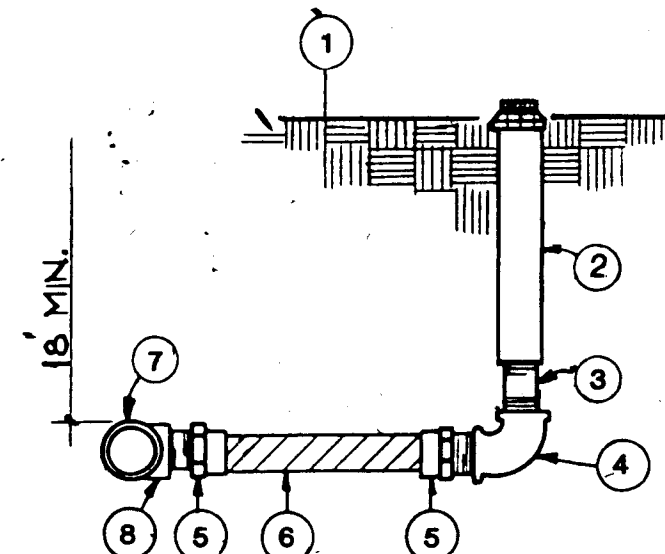
- 1 FINISH GRADE
- 2 BASS & HAYS VALVE BOX 34C
- 3 NO. 3576 SCOTCH LOK CONNECTORS
- 4 MANUAL DRAIN - SEE DETAIL
- 5 GALV. UNION
- 6 AUTOMATIC VALVE - SEE LEGEND
- 7 LATERAL PIPE
- 8 8"x8"x16" SOLID CMU
- 9 CUT OUT FOR LATERAL PIPE
- 10 2CU. FT. 1" DIA. WASHED ROCK
- 11 3/8" WIRE EXPANSION COIL
- 12 WIRE BUNDLE
- 13 MAINLINE
- 14 MAINLINE TEE
- 15 GALV. NIPPLE
- 16 MAINLINE ELL

D/29 AUTOMATIC VALVE N.T.S.



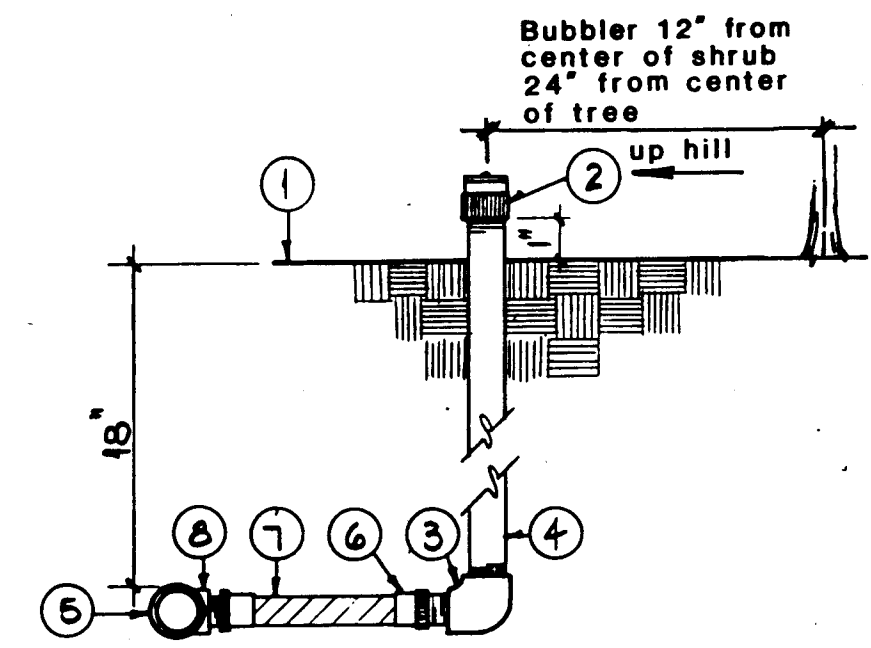
- 1 FINISH GRADE
- 2 2" LOCKING VALVE MARKER
- 3 2" CLASS 160 PVC
- 4 MAINLINE
- 5 TEE
- 6 SCH. 80 PVC NIPPLE
- 7 BRASS GATE VALVE W/ CROSS HANDLE
- 8 2 CU. FT. 1 1/2" WASHED ROCK
- 9 KING AUTOMATIC DRAIN
- 10 TERRA BOND 1115 FILTER FABRIC

E/29 MANUAL DRAIN N.T.S.



- 1 FINISH GRADE
- 2 SPRINKLER HEAD
- 3 GALV. CLOSE NIPPLE
- 4 GALV. ELL
- 5 PVC MIP ADAPTER
- 6 PVC FLEX HOSE (12") SCH 40 PVC NIPPLE
- 7 LATERAL PIPE
- 8 PVC SXSXT TEE

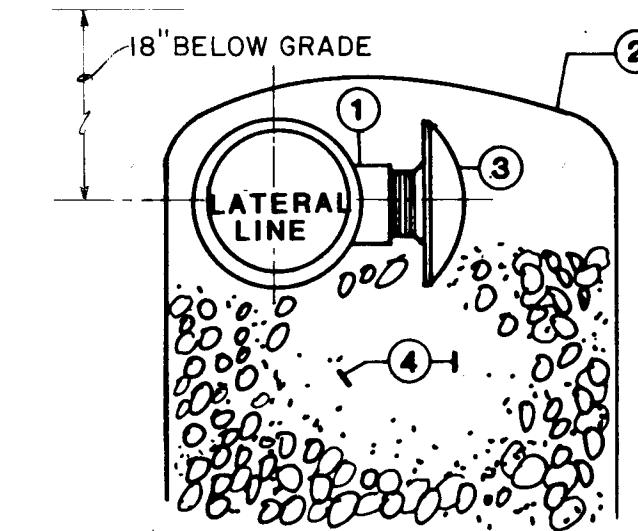
F/29 POP-UP SPRINKLER N.T.S.



- 1 FINISH GRADE
- 2 FLOOD BUBBLER 1" ABOVE TOP OF MULCH
- 3 SCH. 40 PVC ELL
- 4 SCH. 80 PVC RISER
- 5 PVC LATERAL PIPING
- 6 PVC MIP ADAPTER
- 7 PVC FLEX HOSE (12") SCH 40 PVC NIPPLE
- 8 PVC SXSXT TEE

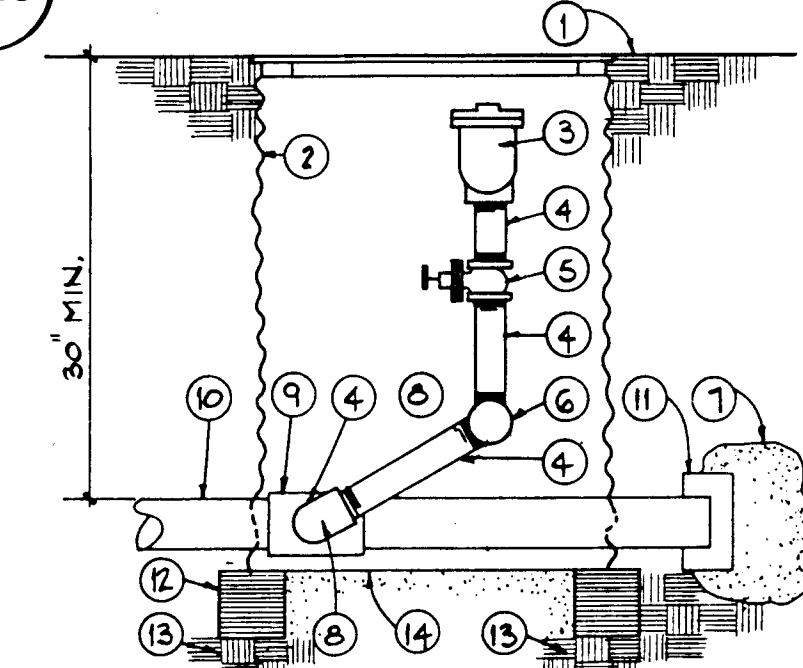
NOTE: LOCATE BUBBLER 12" FROM CENTER OF SHRUB AND 24" FROM CENTER OF TREE AND ON THE UP-HILL SIDE OF THE TREE OR SHRUB

G/29 BUBBLER N.T.S.



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

H/29 AUTOMATIC DRAIN N.T.S.



- 1 FINISH GRADE
- 2 BASS & HAYS 34 d
- 3 AIR RELIEF VALVE
- 4 GALV. NIPPLE
- 5 GATE VALVE
- 6 GALV. ST. ELL
- 7 THRUST BLOCK
- 8 GALV. 90 ELL
- 9 EPOXY COATED STEEL g6x6x12 TEE
- 10 MAINLINE
- 11 END CAP
- 12 8"x8"x16 SOLID CMU
- 13 95% COMPACTED SUBGRADE
- 14 2 CU.FT. 1 1/2" DIA. WASHED ROCK

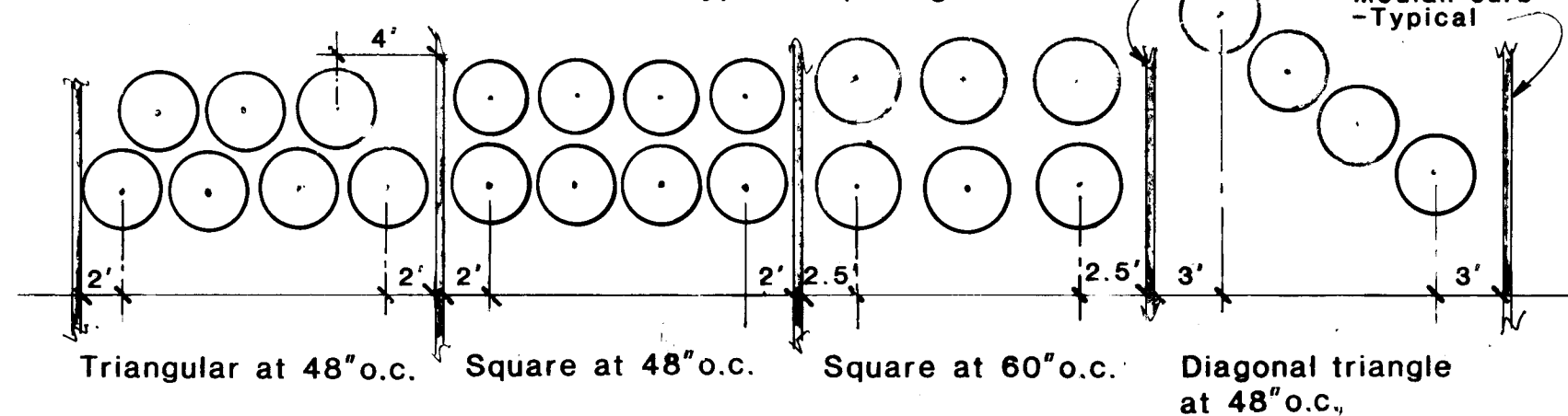
I/29 AIR RELIEF VALVE N.T.S.

PLANT LIST

QUANTITY	BOTANICAL NAME	COMMON NAME	CAL.	CONTAINER	MIN. SIZE
5	Fraxinus pennsylvanica 'Marshall'	Marshall Seedless Ash	2"	24" box	9'H x 6'W
14	Fraxinus velutina 'Modesto'	Modesto Ash	2"	24" box	10'H x 5'W
10	Gleditsia tricanthos inermis 'Shademaster'	Shademaster Honey Locust	2"	24" box	11'H x 5'W
6	Prunus cerasifera 'Krauter Vesuvius'	Flowering Plum	1 1/2"	20" box	8'H x 5'W
30	Pyrus calleryana 'Bradford'	Flowering Pear	1 1/2"	20" box	8'H x 4'W
106	Berberis gladyensis 'Wm. Penn'	William Penn Barberry	5 gal.		48" o.o.
213	Cotoneaster horizontalis	Rock Cotoneaster	5 gal.		48" o.o.
20	Lagerstromia sp.	Crape Myrtle 'Watermelon Red'	5 gal.		60" o.o.
252	Juniperus sabinia 'Broadmoor'	Broadmoor Juniper	5 gal.		60" o.o.
142	Juniperus sabinia 'Buffalo'	Buffalo Juniper	5 gal.		48" o.o.

SHRUB PLANTING

DIMENSIONS from Median Curb for Each type of Spacing



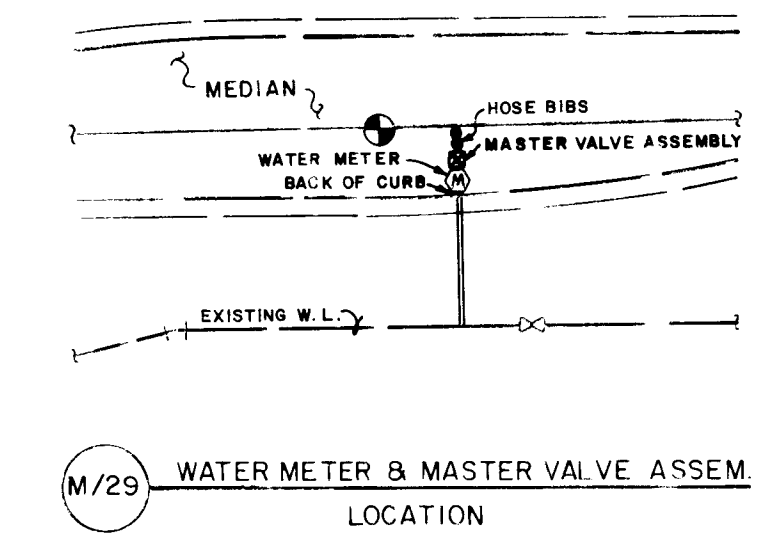
CONTROLLER/VALVE LEGEND

CONTROLLER	MODEL	VALVES	SIZE	GPM
#1	ISC8	V-1	1"	4.8
		V-2	1"	11.3
		V-3	1"	9.0
		V-4	1 1/2"	42.0
		V-5	1 1/2"	34.3
#2	ISC8	V-1	1"	19.5
		V-2	1"	24.0
		V-3	1"	20.3
		V-4	1"	10.0
		V-5	1"	20.0
		V-6	1"	4.8
#3	ISC8	V-1	1"	7.3
		V-2	1"	3.2
		V-3	1"	13.5
		V-4	1"	22.0
		V-5	1"	17.0

NOTE: Locations for electric service to each controller is shown on plans.
Locate valves on controller by number order, i.e. - valve 1 station 1, valve 2 station 2, etc. (Controller #1 varies from east to west pattern due to elevation shift)

26 31 17 29 89

12-8-88



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

TITLE: MENAUL BOULEVARD NE. MEDIAN RECONSTRUCTION & LANDSCAPING

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	9-6-88	Liquid Waste	<i>[Signature]</i>	9-14-88
A.C.E. Design	<i>[Signature]</i>	4-6-88	Traffic	<i>[Signature]</i>	9-14-88
A.C.E. Hydrology	<i>[Signature]</i>	3-5-88	Water	<i>[Signature]</i>	9-14-88
Parks & Recreation	<i>[Signature]</i>	3-11-88			
DRAWING NO.	3117	MAP NO.		SHEET	29 OF 29