

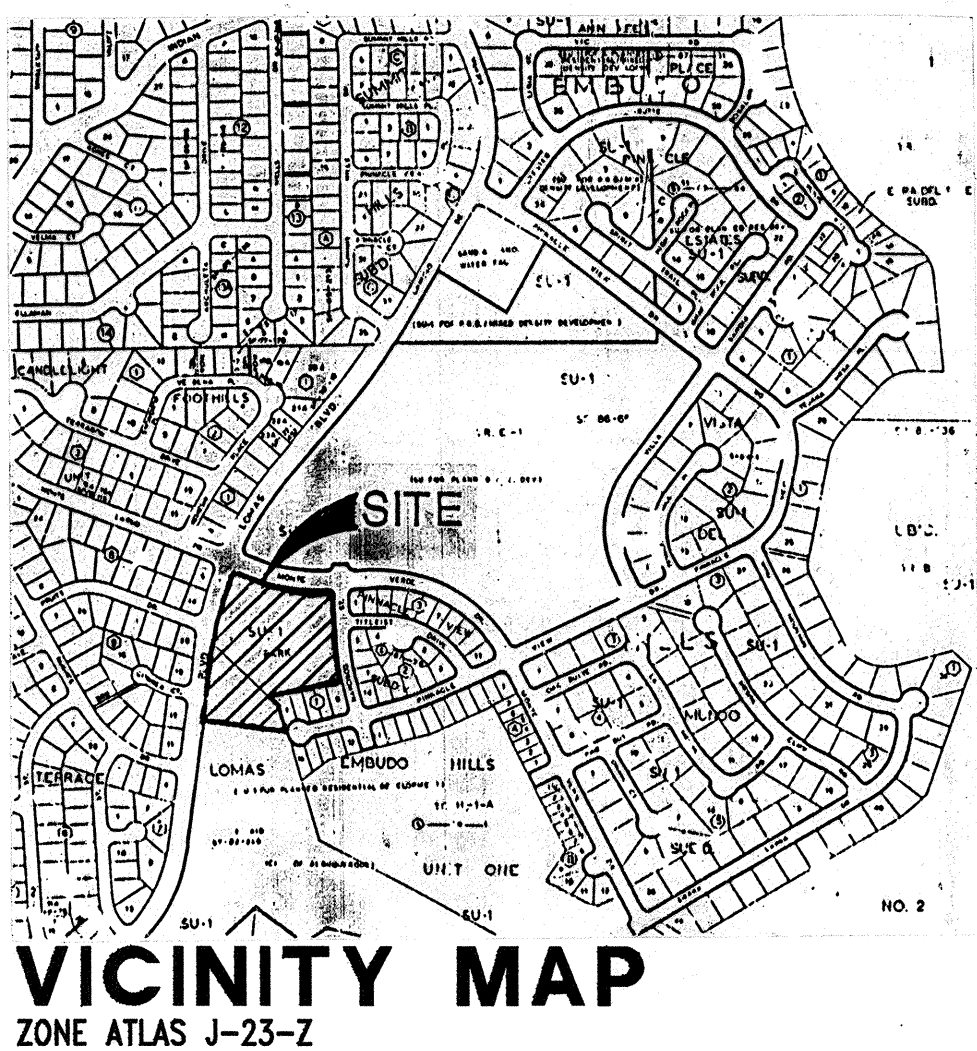
EMBUDO HILLS PARK

1200-1/2 MONTE VERDE STREET N.E.

Albuquerque, New Mexico

CONSTRUCTION DOCUMENTS CLASS II CONSTRUCTION

FEBRUARY 15, 1993



GENERAL NOTES

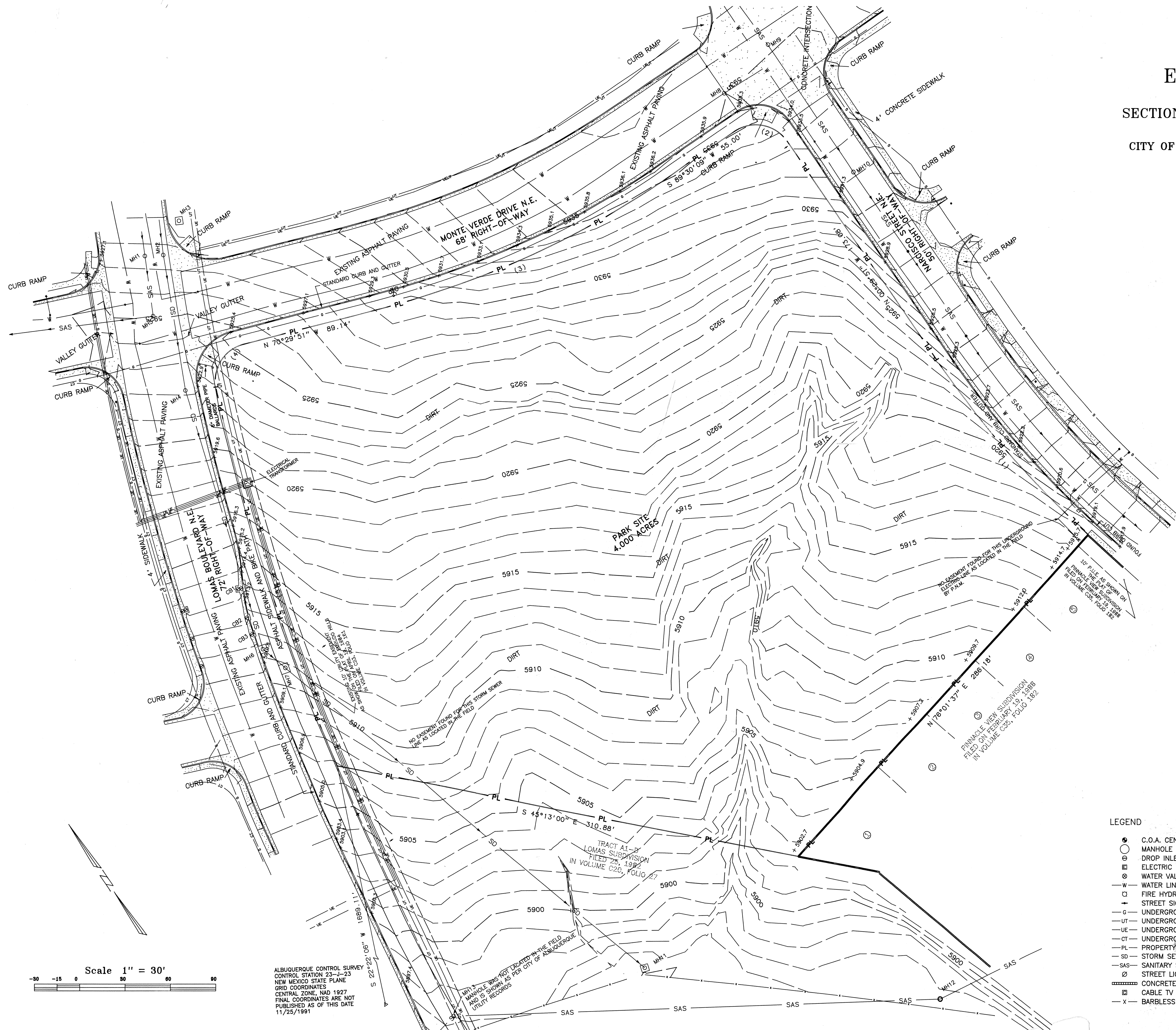
1. These documents are intended for use in Class II construction of Embudo Hills Park and not for use in a competitive bidding process.
2. All work shall conform to City of Albuquerque Standard Specifications and Details.
3. Verify existing conditions and notify Landscape Architect of discrepancies found between the plans and actual conditions prior to starting construction.
4. Contractor and City forces shall contact New Mexico one-call system, 260-1990, to have underground utilities located prior to starting work.

SHEET TITLE	SHEET NUMBER
COVER SHEET.....	CS-1 of 10
SITE SURVEY.....	2 of 10
LAYOUT PLAN.....	3 of 10
GRADING AND DRAINAGE PLAN.....	4 of 10
PLAY AREA LAYOUT/GRADING PLAN.....	5 of 10
CONSTRUCTION DETAILS.....	6 of 10
CONSTRUCTION DETAILS.....	7 of 10
CONSTRUCTION DETAILS.....	8 of 10
IRRIGATION PLAN.....	9 of 10
PLANTING PLAN.....	10 of 10

9 OF 10	REVISED PER ASBUILTS	9-28-95					
REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
APPROVAL FOR REVISIONS							
		Warren R. McClung Land Planning ■ Landscape Architecture 1211 Olympic Ave. NE ■ Albuquerque, NM 87112-3402 PH: (505) 764-8446 ■ FAX: (505) 764-3005			APPROVED FOR CONSTRUCTION: 		
PROJECT NO. 4354.90				SHEET: CS-1 OF 10			

BID SET NUMBER: _____

**TOPOGRAPHIC MAP SHOWING
CITY OF ALBUQUERQUE
EMBUDO HILLS PARK SITE**
WITHIN THE SOUTH 1/2 OF
SECTION 14, TOWNSHIP 10 NORTH, RANGE 4 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
NOVEMBER, 1991
UPDATED JUNE 24, 1992



MANHOLE TABLE		
NAME	RIM ELEVATION	INVERT ELEVATION
MH1	5927.6	5917.7
MH2	5927.7	5919.4
MH3	5929.7	5917.2
MH4	5922.3	5910.9
MH5	5924.9	COULD NOT OPEN
MH6	5911.2	5902.4
MH7	5910.9	5900.4
MH8	5912.0	WATER LINE AIR RELEASE VALVE
MH9	5934.7	5925.1
MH10	5931.4	5920.7
MH11	5895.2	5889.1
MH12	5896.7	5885.8
MH13	MANHOLE NOT FOUND IN THE FIELD	

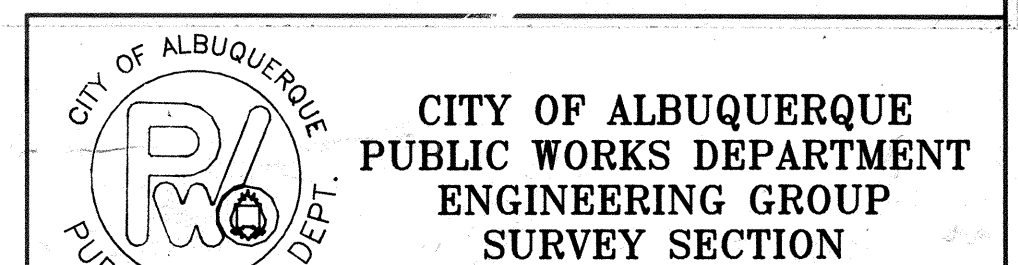
CATCH BASIN TABLE		
NAME	TYPE	RIM ELEVATION
CB1	A & B	5913.1
CB2	C	5912.0
CB3	C	5911.3

CURVE DATA TABLE					
Name	Delta	Radius	Length	Bearing	Chord
(1)	D = 12°42'45"	702.15	155.79	N 08°51'13" W	155.47
(2)	D = 90°00'00"	25.00	39.27	N 45°29'51" W	35.36
(3)	D = 20°00'00"	611.13	213.32	N 80°29'51" W	212.24
(4)	D = 87°56'11"	25.00	38.37	S 65°32'03" W	34.71
(5)	D = 10°47'36"	1396.39	263.05	S 16°10'14" W	262.66

- NOTES:
- All utilities located along Lomas Boulevard N.E. have been located using the construction plans for WIDENING OF LOMAS BOULEVARD C.O.A. PROJECT NUMBER 3845 and above ground evidence found in the field.
 - All utilities located on Monte Verde Drive N.E. and Narcisco Street N.E. have been located using existing records as provided by the respective utilities including line spots in the field and above ground evidence found in the field.
 - All City of Albuquerque Utilities have been located using the construction plans mentioned in note 1, city water and sewer maps and above ground evidence found in the field.
 - Exact location of under ground utilities must be verified in the field by excavation.
 - All curb returns shown hereon have curb ramps that provide mobilities impaired access.
 - All bearings as shown hereon are New Mexico State Plane Grid Bearings, all distances shown hereon are ground distances, and no property corners were set.
 - All spot elevations as shown hereon are top of curb elevations.
 - This topographic map is revised as of June 24, 1992 to show additional information southwest of the Park Site as shown hereon. The original topographic map was dated November, 1991.

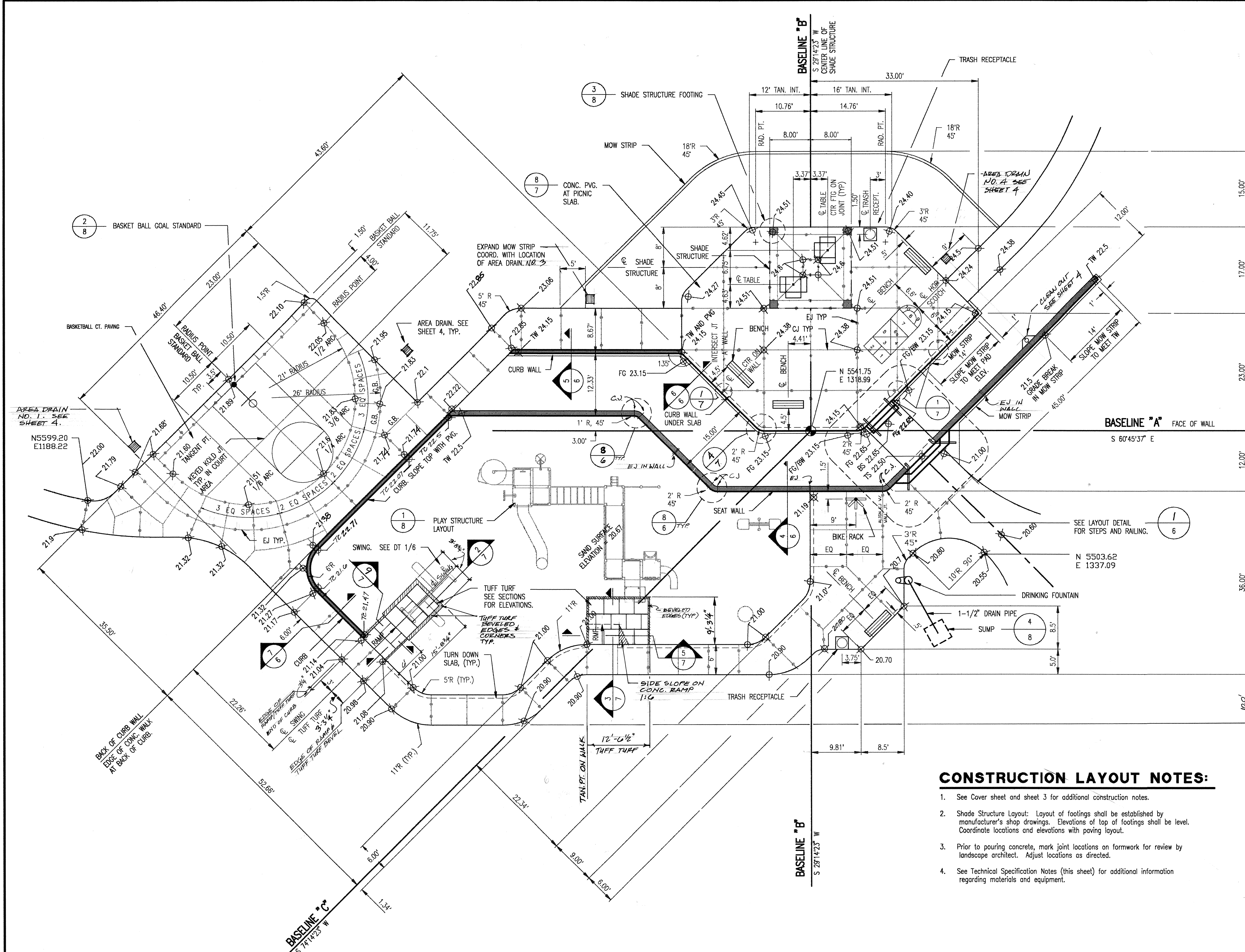
- LEGEND
- C.O.A. CENTERLINE MONUMENT
 - MANHOLE
 - DROP INLET
 - ELECTRIC RISER
 - WATER VALVE
 - W — WATER LINE
 - F — FIRE HYDRANT
 - S — STREET SIGN
 - G — UNDERGROUND GAS LINE
 - UT — UNDERGROUND TELEPHONE LINE
 - UE — UNDERGROUND ELECTRIC LINE
 - CT — UNDERGROUND CABLE TV LINE
 - PL — PROPERTY LINE
 - SD — STORM SEWER
 - SAS — SANITARY SEWER
 - SL — STREET LIGHT
 - CB — CONCRETE BLOCK WALL
 - CR — CABLE TV RISER
 - X — BARBLESS WIRE FENCE

CITY OF ALBUQUERQUE PARKS/GENERAL SERVICES DESIGN & DEVELOPMENT			
TITLE:	EMBUDO HILLS PARK	2-15-93	
SITE SURVEY (Survey provided by City. Included for reference only.)			
APPROVALS	ENGINEER	DATE	APPROVALS
CHAIRPERSON	3-16-93	WATER	3-16-93
TRANSPORTATION	3-16-93	WASTE WATER	3-16-93
HYDROLOGY	3-16-93		
PARKS	3-16-93		
PROJECT NO. 4354.90	MAP NO. J23	SHEET 2 OF 10	



ALBUQUERQUE CONTROL SURVEY
CONTROL STATION 23-J-23
NEW MEXICO STATE PLANE
GRID COORDINATES
CENTRAL ZONE, NAD 1927
FINAL COORDINATES ARE NOT
PUBLISHED AS OF THIS DATE
11/25/1991

PLOT DATE: FEB 15 1993



SITE FURNISHINGS AND EQUIPMENT

- SHADE STRUCTURE: Classic Recreation Systems, Inc., 16' x 16' Prescott Model with rain gutters and provisions for light fixture in center and concealed wire runs. Roof shall be standard HR 36, parchment color. Point posts blue to match play equipment posts.
- PLAY STRUCTURE AND EQUIPMENT: See detail 1 Sheet 8.
- ACCESSIBLE PLAY SURFACE: Tuffurf by Landscape Structures. See referenced sections for thicknesses.
- BASKETBALL STANDARD: Landscape Structures No. 861-9432. Color shall be blue to match play structure posts.
- BENCHES: Ultram Model UF-3006. Color shall be blue to match play structure posts or brown if match cannot be achieved.
- BIKE RACK: Landscape Structures Bike Loops Series with custom configuration--5 loops on one post. See manufacturer's shop drawing.
- DRINKING FOUNTAIN: MDF Model 410 with access door.
- Picnic Tables: Litchfield Industries, Inc. Survivor 4600 3' square top with 3 benches. Color shall be black.
- TRASH RECEPTACLE: Riconada TR-3329-3 by Materials Inc. Color shall be buff.

TECHNICAL SPECIFICATION NOTES

- All construction shall conform to the City of Albuquerque standard technical specifications. The following are modifications or clarifications of the standard specification.
- COMPACTION UNDER STRUCTURES AND PAVEMENT: Compact subgrades to 95% relative density as determined by ASTM D1557.
- CONCRETE CONSTRUCTION:
 - All concrete shall be 4000psi 28 day strength. Aggregate shall be of appropriate size to allow thorough consolidation of concrete in forms to avoid having voids in exposed wall faces. *Conc. for basketball court shall be fiber reinforced.*
 - Exposed surfaces of all walls shall have a light sand blast finish.
 - Concrete paving shall have a standard broom finish. Direction of finish shall be perpendicular to centerline of walkways.
 - Construct formwork as required to provide true, straight lines, smooth constant radii, and plumb wall faces.
- PAINTING:
 - Point and primers shall be manufactured by the same company and shall conform to all governing regulations and codes.
 - Provide landscape architect with color samples for final selection prior to ordering paint.
 - Prepare all surfaces and apply finishes in accordance with manufacturer's printed specifications.
- SITE FURNISHINGS AND EQUIPMENT INSTALLATION:
 - Install all site furnishings, equipment, and structures in accordance with manufacturer's standard installation details unless otherwise indicated in the Drawings.
 - Obtain samples of product colors for color matching prior to ordering products.
 - Stake layout of all furnishings and equipment for review by landscape architect. Notify landscape architect of any conflicts.
- PLAY EQUIPMENT AND PLAY STRUCTURES:
 - Install all required equipment, components and accessories recommended by the manufacturer to provide a complete play system in accordance with governing safety regulations. Verify layout and clearances for all components prior to constructing footings.
 - Install and assemble equipment in accordance with manufacturers printed specifications.
- PIPE RAILS:
 - Provide shop drawing prior to fabricating. Coordinate final dimensions with as constructed field dimensions of steps.
 - Pipe hand rails shall be constructed with smooth constant radii where specified.
 - Grind all welds smooth to provide a seamless appearance.
 - Set rails plumb and securely grouted in place.

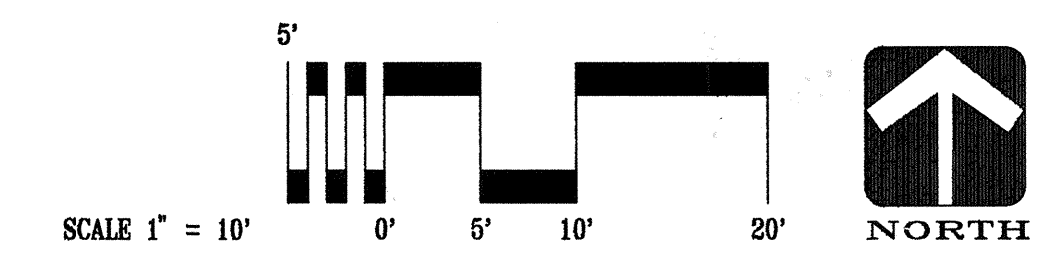
CONSTRUCTION LAYOUT NOTES:

- See Cover sheet and sheet 3 for additional construction notes.
- Shade Structure Layout: Layout of footings shall be established by manufacturer's shop drawings. Elevations of top of footings shall be level. Coordinate locations and elevations with paving layout.
- Prior to pouring concrete, mark joint locations on formwork for review by landscape architect. Adjust locations as directed.
- See Technical Specification Notes (this sheet) for additional information regarding materials and equipment.

SPOT ELEVATIONS

ADD 5900' TO ELEVATIONS SHOWN ON THIS SHEET.

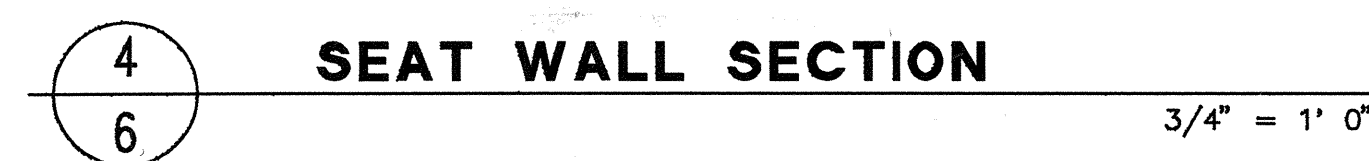
- 20.60 SPOT ELEVATION OF PAVEMENT.
- TW 22.5 SPOT ELEVATION AT TOP OF WALL.
- FG 23.15 SPOT ELEVATION OF LANDSCAPE FINISHED GRADE
- TS 22.45 SPOT ELEVATION TOP AND BOTTOM OF STEPS.
- BS 22.65



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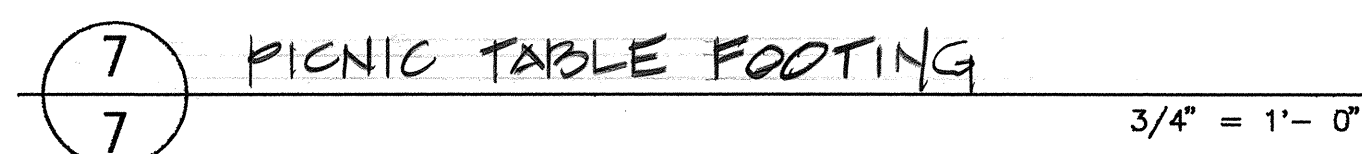
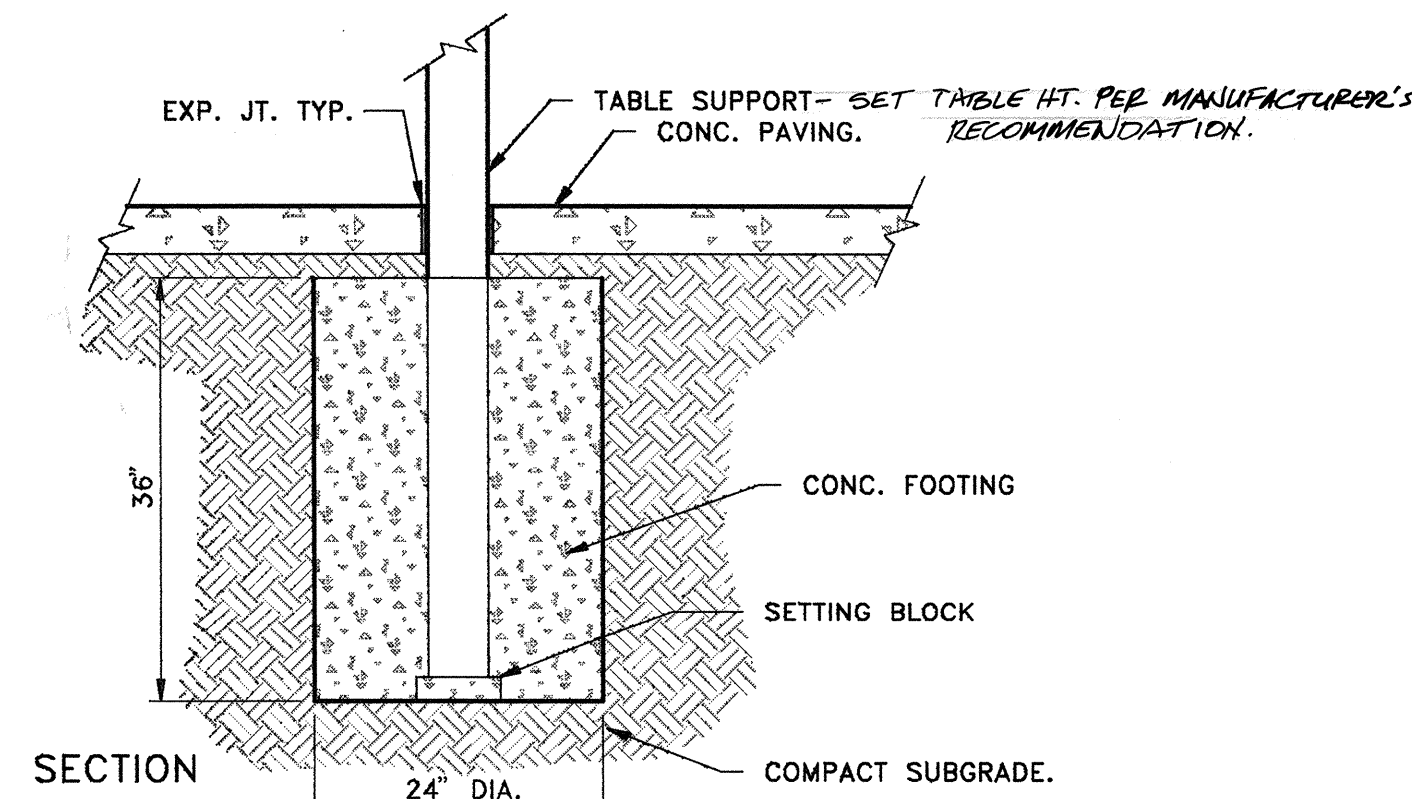
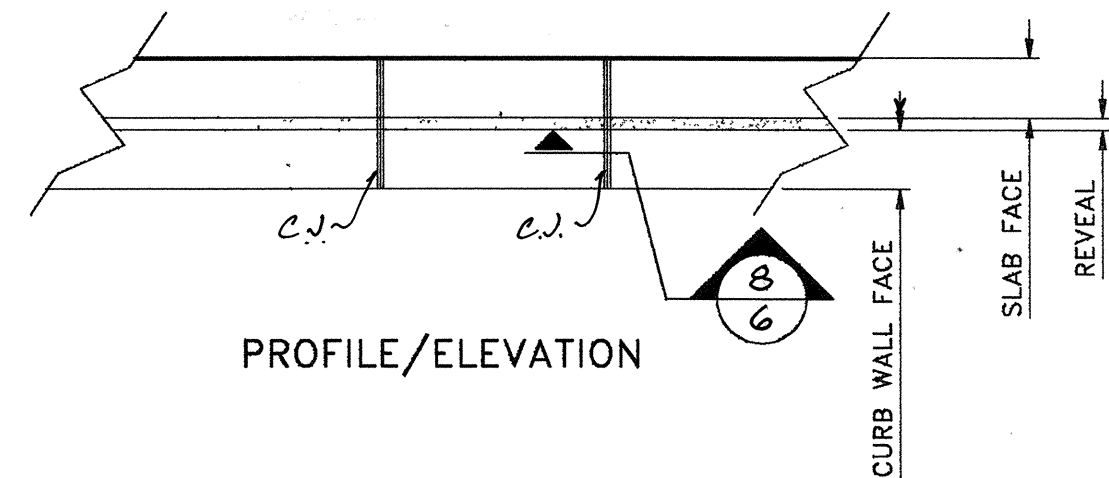
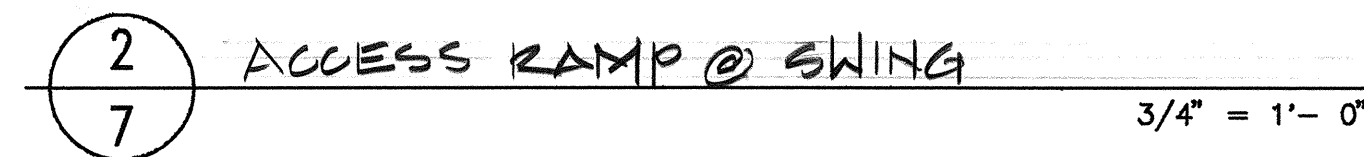
CITY OF ALBUQUERQUE PARKS/GENERAL SERVICES DESIGN & DEVELOPMENT					
TITLE: EMBUDO HILLS PARK			FEBRUARY 15, 1993		
PLAY AREA LAYOUT/GRADING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CHAIRPERSON	B. J. Loomis	3-16-93	WATER	R. W. Kene	3-16-93
TRANSPORTATION	R. J. Loomis	3-16-93	WASTE WATER	R. W. Kene	3-16-93
HYDROLOGY	R. J. Loomis	3-16-93			
PARKS	R. J. Loomis	3-16-93			
PROJECT NO. 4354.90		MAP NO. J23		SHEET 5 OF 10	

SURVEY INFORMATION		BENCHMARK		AS BUILT INFORMATION	
NO.	FIELD NOTES	DATE	BY	ALBUQUERQUE CONTROL SURVEY B.M. NO. 11-J23	
				LOCATION: Northwest corner of the intersection of Lomas Blvd. and Monte Largo Drive N.E.	
				DESCRIPTION: An ACS 1-3/4" aluminum disk stamped "ACS BN, 11-25" epoxied to the top of the curb at the NNW curb return	
				ELEVATION = 5928.316'	



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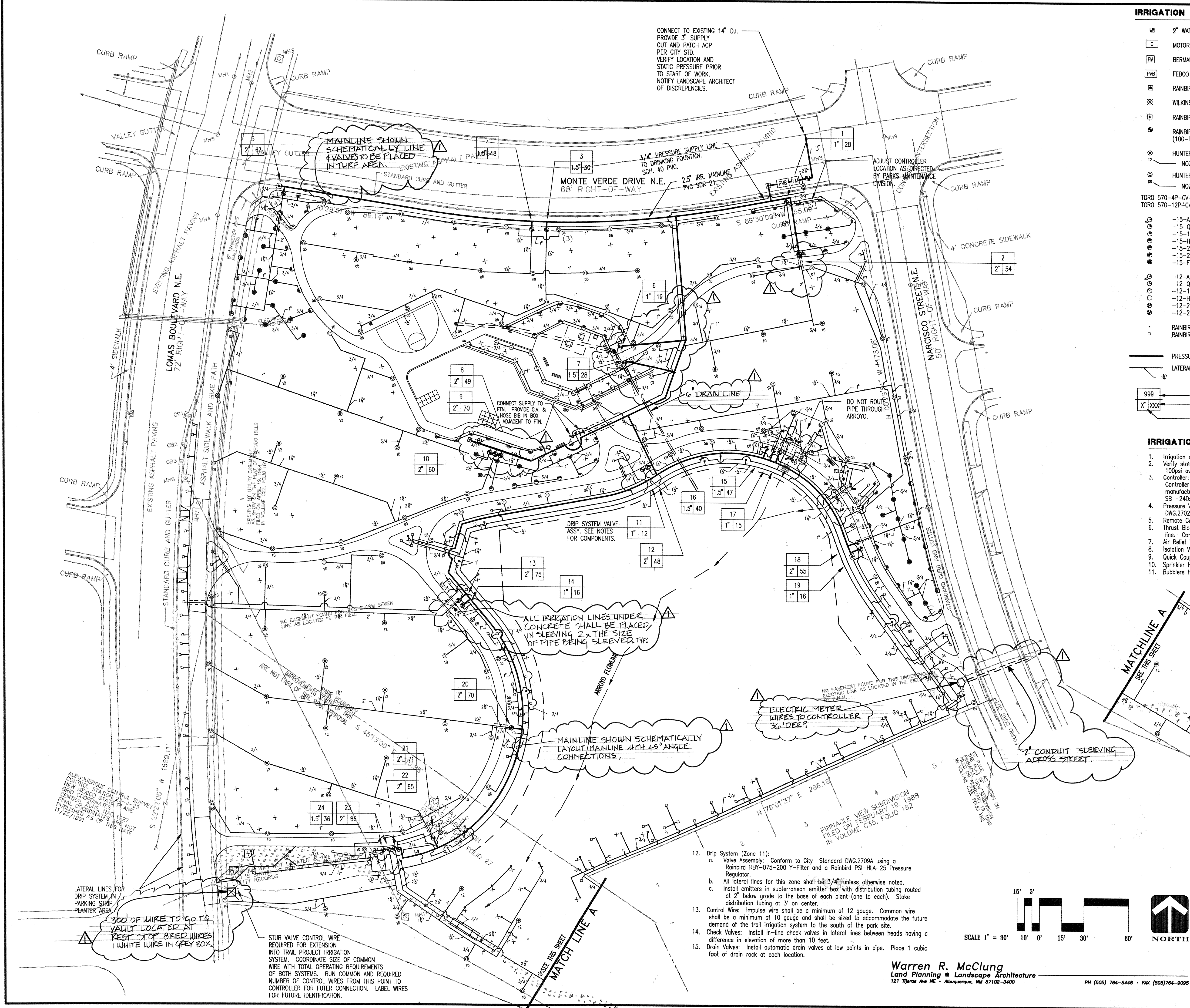
CITY OF ALBUQUERQUE PARKS/GENERAL SERVICES DESIGN & DEVELOPMENT					
TITLE: EMBUDO HILLS PARK			FEBRUARY 15, 1993		
CONSTRUCTION DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CHAIRPERSON	<i>B.G. Arndt</i>	3-16-93	WATER	<i>R.W. Kane</i>	3-16-93
TRANSPORTATION	<i>B. Bunk</i>	3-16-93	WASTE WATER	<i>R.W. Kane</i>	3-16-93
HYDROLOGY	<i>J. Martin</i>	3-16-93			
PARKS	<i>H. Solina</i>	3-16-93			
PROJECT NO. 4354.90		MAP NO. J23		SHEET 6 OF 10	



CITY OF ALBUQUERQUE PARKS/GENERAL SERVICES DESIGN & DEVELOPMENT					
TITLE:		EMBUDO HILLS PARK		February 15, 1983	
CONSTRUCTION DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CHAIRPERSON	<i>B.G. Gandy</i>	<i>3-16-93</i>	WATER	<i>R.W. Kane</i>	<i>3-16-93</i>
TRANSPORTATION	<i>R. G. Gandy</i>	<i>3-16-93</i>	WASTE WATER	<i>R.W. Kane</i>	<i>3-16-93</i>
HYDROLOGY	<i>M. G. Gandy</i>	<i>3-16-93</i>			
PARKS	<i>B.G. Gandy</i>	<i>3-16-93</i>			
PROJECT NO. 4354.90		MAP NO. J23		SHEET 7 OF 10	

[illegible]

PLOT DATE:
MAR 6, 1993

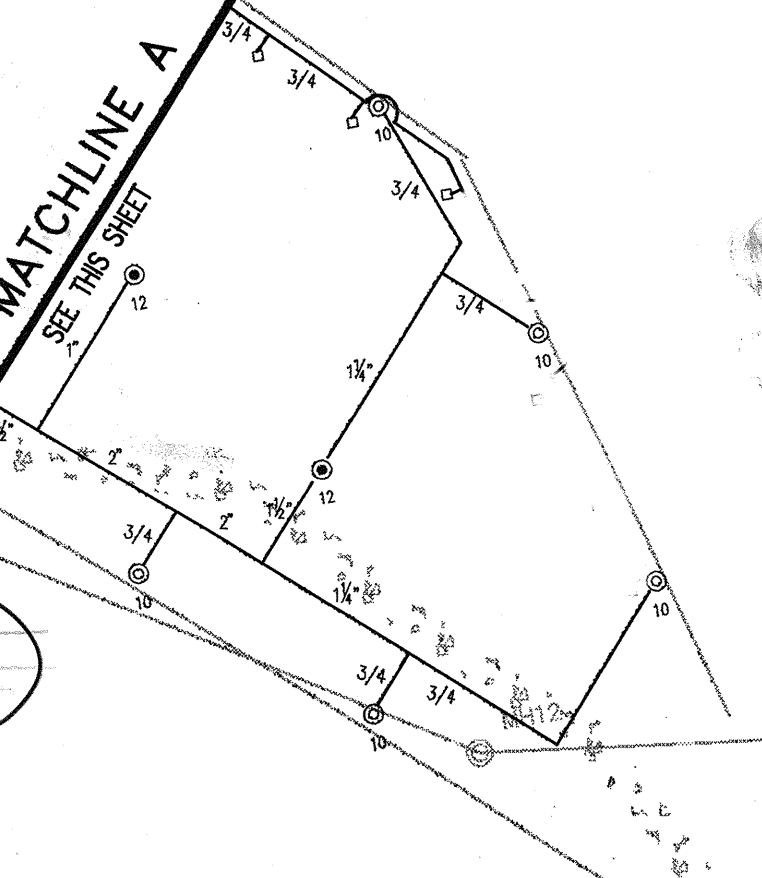


IRRIGATION LEGEND

- 2" WATER METER
- MOTOROLA MIR 5000 F2785-2 52 STATION CONTROLLER
- BERMAD 910-P-20 REMOTE CONTROL HYDROMETER
- FEBCO 765-2" PRESSURE VACUUM BREAKER
- RAINBIRD 2AV AIR RELIEF VALVE
- WILKINS 600LV 3/4" PRESSURE REDUCING VALVE WITH GATE VALVE UPSTREAM QUICK COUPLING VALVE
- RAINBIRD 5RC REMOTE CONTROL VALVE SIZE AS NOTED ON PLAN
- RAINBIRD PEB-PRS SERIES (100-PEB ON DRIP SYST.) REMOTE CONTROL VALVE SIZE AS NOTED ON PLAN
- HUNTER I-20-36V GEAR-DRIVEN ROTARY HEAD NOZZLE SIZE AS INDICATED
- HUNTER I-20-ADV GEAR-DRIVEN ROTARY HEAD NOZZLE SIZE AS INDICATED
- TORO 570-4P-CV 4" AND 12" POP-UP SPRAY HEADS (4" FOR LAWN, 12" FOR SHRUB BEDS)
- TORO 570-12P-CV
- 15' ADJUSTABLE ARC
- 15' QUARTER ARC
- 15'120 DEGREE ARC
- 15' HALF ARC
- 15' 240 DEGREE ARC
- 15' 270 DEGREE ARC
- 15' FULL ARC
- 12' ADJUSTABLE ARC
- 12' QUARTER ARC
- 12'120 DEGREE ARC
- 12' HALF ARC
- 12' 240 DEGREE ARC
- 12' 270 DEGREE ARC
- RAINBIRD 1408 PRESSURE COMPENSATING BUBBLER
- RAINBIRD EM16-M101 DRIP EMITTER
- INSTALLED IN SEB-6 SUBTERRANEAN EMITTER BOX.
- PRESSURE MAINLINE. 2.5" OD UNLESS OTHERWISE NOTED.
- LATERAL LINE - SCH 40, SIZE AS INDICATED ON DRAWING.
- 999 VALVE NUMBER
- X'XXX GPM
- VALVE SIZE

IRRIGATION SYSTEM INSTALLATION NOTES

- Irrigation system shall conform to City standard details and specifications.
 - Verify static pressure at P.O.C. prior to start of installation. Design is based on 100psi available.
 - Controller: Install in accordance with manufacturer's shop drawings. Controller shall have surge protection and grounding as recommended by manufacturer for field conditions at this site. Install unit in Strong Box SB-240ss/MMB. Install box on 2'x3'x1" thick concrete footing. Pressure Vacuum Breaker and Bermad Hydrometer: Conform to City Standard DWG.2702-A.
 - Remote Control Valve: Conform to Standard DWG.2703.
 - Thrust Blocks: Construct concrete thrust blocks on oil bends in irrigation main line. Conform to City Standard DWG.2704.
 - Air Relief Valve: Conform to City Standard DWG.2705.
 - Isolation Valves: Conform to City Standard DWG.2707.
 - Quick Coupler Valves: Conform to City Standard DWG.2708.
 - Sprinkler Heads: Conform to City Standard DWG.2709.
 - Bubblers Head at Tree: Conform to City Standard DWG.2710.
- IRRIGATION NOTES ARE CONTINUED AT THE BOTTOM OF THIS SHEET.



SURVEY INFORMATION		BENCHMARK		AS BUILT INFORMATION	
NO.	FIELD NOTES	NO.	DATE	NO.	DATE
1	ALBUQUERQUE CONTROL SURVEY B.M. NO. 11-123	1	11-123	1	11-123
2	LOCATION: Northwest corner of the intersection of Lomas Blvd. and Monte Largo Drive N.E.	2		2	
3	DESCRIPTION: An ACS 1-3/4" aluminum disk stamped "ACS BM, 11-23" epoxied to the top of the curb at the NNW curb return	3		3	
4	ELEVATION = 5928.316'	4		4	

CITY OF ALBUQUERQUE
PARKS/GENERAL SERVICES
DESIGN & DEVELOPMENT

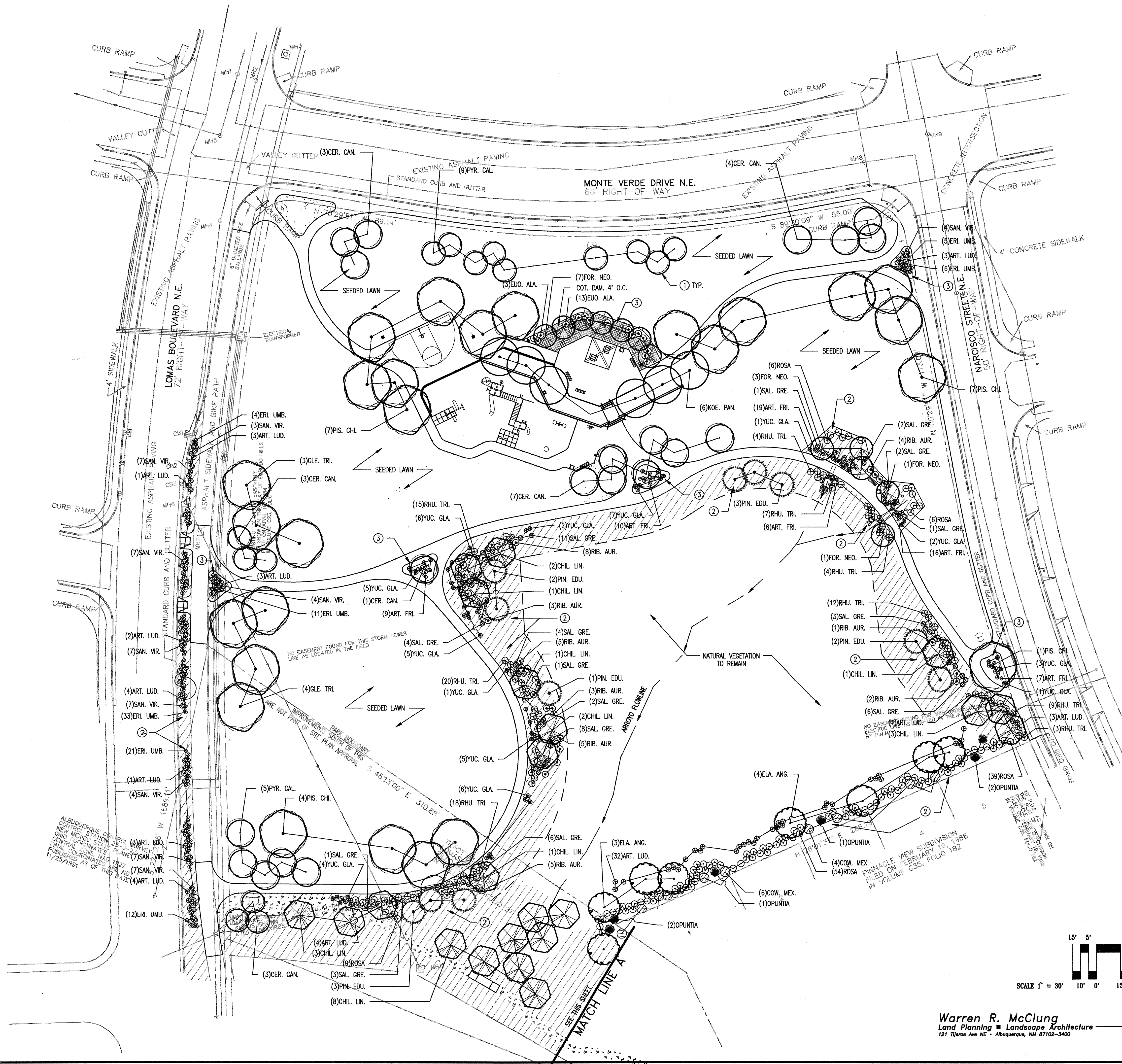
TITLE: EMBUDO HILLS PARK
DATE: FEBRUARY 15, 1993

IRRIGATION PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CHAIRPERSON	<i>R. W. Kane</i>	3-16-93	WATER	<i>R. W. Kane</i>	3-16-93
TRANSPORTATION	<i>R. W. Kane</i>	3-16-93	WASTE WATER	<i>R. W. Kane</i>	3-16-93
HYDROLOGY	<i>R. W. Kane</i>	3-16-93			
PARKS	<i>R. W. Kane</i>	3-16-93			

PROJECT NO. 4354.90 **MAP NO. J23** **SHEET 9 OF 10**

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PLANT LIST

KEY	QUANT.	SIZE	Botanical Name (Common Name)
TREES			
CER. CAN.	21	2" CAL.	Cercis occidentalis (Western Redbud)
CHIL. LIN.	22	2" CAL.	Chilopsis linearis (Desert Willow)
EIA. ANG.	8	2" CAL.	Elaeagnus angustifolia (Russian Olive)
FOR. NEO.	12	2" CAL.	Forestiera neomexicana (Desert Olive)
GLE. TRI.	7	2" CAL.	Gleditsia triacanthos (Locust)
KOE. PAN.	6	2" CAL.	Koeleruteria paniculata (Goldenrain Tree)
PIN. EDU.	11	8" H.	Pinus edulis (Pinon)
PIS. CHI.	19	2" CAL.	Pistachia chinensis (Chinese Pistache)
PYR. CAL.	14	2" CAL.	Pyrus calleryana 'Aristocrat' (Aristocrat Pear)
SHRUBS			
ART. FRI.	67	1 GAL.	Artemisia frigida (Fringed Wormwood)
ART. LUD.	64	1 GAL.	Artemisia ludoviciana 'albula' (Silver King Artemisia)
COT. DAM.	60	1 GAL.	Cotoneaster dammeri 'Coral Beauty' (Bearberry Cotoneaster)
COW. MEX.	10	5 GAL.	Cowania mexicana (Cliffrose)
ERI. UMB.	92	1 GAL.	Eriogonum umbellatum (Sulfur Flower)
EUD. ALA.	16	5 GAL.	Euonymus alata 'Compacta' (Compact Winged Euonymus)
OPUNTIA	6	5 GAL.	Opuntia spinosior (Cone Cholla)
RHU. TRI.	96	1 GAL.	Rhus trilobata 'Autumn Amber' (Prostrate Sumac)
RIB. AUR.	36	1 GAL.	Ribes aureum (Golden Currant)
ROSA	91	1 GAL.	Rosa woodsii (Wood's Rose)
SAL. GRE.	55	1 GAL.	Salvia greggii (Autumn Sage)
SAN. VIR.	57	1 GAL.	Santolina virens
YUC. GLA.	52	1 GAL.	Yucca glauca (Small Soapweed)

SEED MIXES

Mix Type 'A': City of Albuquerque Standard Turf Grass Mix
Mix Type 'B': City Standard East Mesa Natural Grass Mix.

PLANTING NOTES

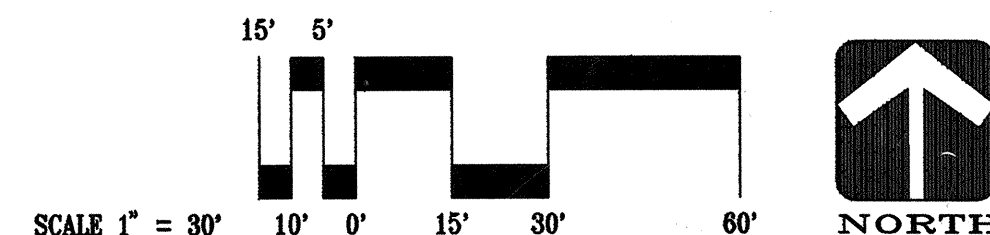
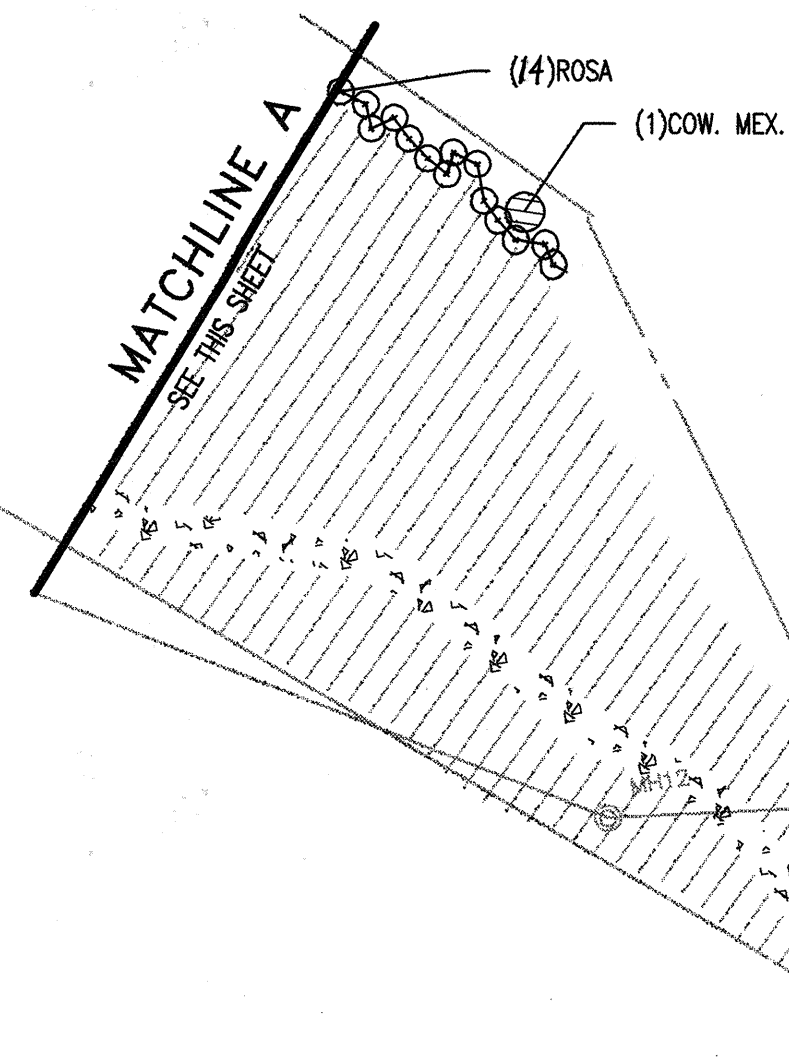
- Planting operations shall conform to City standard details and specifications.
- Soil Preparation: Submit representative samples of existing soil for testing. Amend and prepare soil in accordance with the recommendations of the testing agency.
- Stake locations of plants for review by landscape architect. Identify locations with colored flags or color-coded 2x2 stakes. Adjust locations as directed.
- Notify landscape architect of necessary substitutions for specified plants prior to making substitutions.

DETAIL REFERENCES

- Conform to Detail DWG.2713 and DWG.2716 as applicable for trees planted in turf areas (typical).
- Conform to planting details DWG.2714, and DWG.2717 for this area.
- Conform to planting details DWG.2715 and DWG.2718 in this area.

KEY

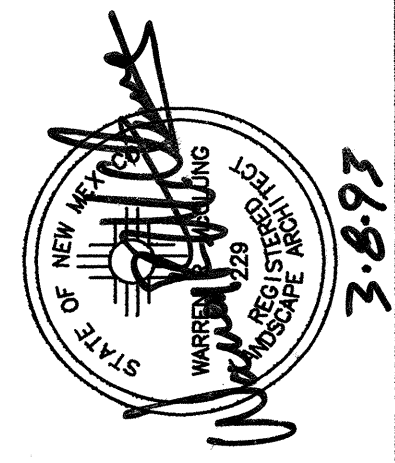
- SEEDED LAWN AREAS
- SEEDED AREA - MIX TYPE 'B'
- PLANT NAME KEY
- QUANTITY IN GROUPING



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SURVEY INFORMATION		BENCHMARK		AS BUILT INFORMATION	
NO.	DATE	FIELD NOTES	ALBUQUERQUE CONTROL SURVEY B.M. NO.	11-123	
		BY	LOCATION:	Northwest corner of the intersection of Lomas Blvd. and Monto Largo Drive N.E.	
			DESCRIPTION:	An ACS 1-3/4" aluminum disk stamped "ACS Bld. 11-25" epoxied to the top of the curb at the NW curb return	
				ELEVATION = 5928.316'	



CITY OF ALBUQUERQUE PARKS/GENERAL SERVICES DESIGN & DEVELOPMENT					
TITLE: EMBUDO HILLS PARK			FEBRUARY 15, 1993		
PLANTING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CHAIRPERSON	<i>R.W. Kane</i>	3-16-93	WATER	<i>R.W. Kane</i>	3-16-93
TRANSPORTATION	<i>R. Kane</i>	3-16-93	WASTE WATER	<i>R.W. Kane</i>	3-16-93
HYDROLOGY	<i>Plaster</i>	3-16-93			
PARKS	<i>D. Serna</i>	3-16-93			
PROJECT NO. 4354.90		MAP NO. J23		SHEET 10 OF 10	