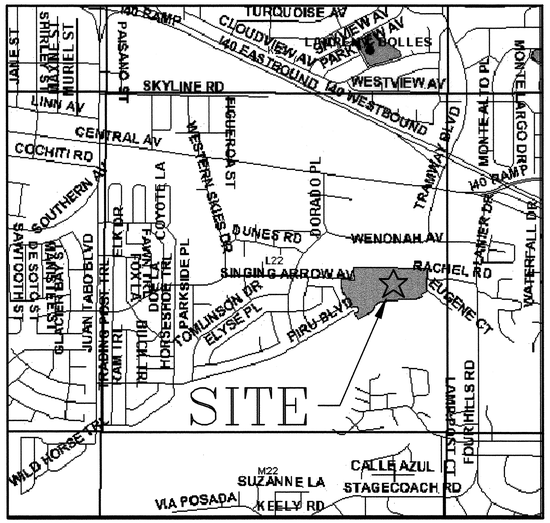
SINGING ARROW PARK (PHASE III)
13001 Singing Arrow Ave. NE

CONSTRUCTION PLANS

ALBUQUERQUE
SEAL
NEW MEXICO
1706

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

FEBRUARY 16, 2003



VICINITY MAP — ZONE ATLAS PAGE L-22
N.T.S.

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PROPERTY INFORMATION

LEGAL DESCRIPTION: TRACT A, SINGING ARROW PARK

WATER METER ADDRESS: 13229 RACHEL ROAD, SE

(TOTAL PARK AREA = 13.2 AC. WITH 2.8 AC. DEVELOPED)

TOTAL PHASE III PROJECT AREA: 5.6 ACRES
COOL SEASON TURF AREA: 2.2 ACRES
WARM SEASON TURF AREA: 1.0 ACRES
TOTAL TURF AREA: 3.2 ACRES

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 6 7 3 2 1 . 9 1 0 1 6 5

APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER
David Blake (Project Mgr.)
DATE 6/17/05

Resource Technology, Inc.
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Environmental Sciences
Water Resources
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Planning
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REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1	5A, 4A, 8A, 9A						

ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	APPROVED FOR CONSTRUCTION
STATE OF NEW MEXICO CORINNE V. O'HARA #342 REGISTERED LANDSCAPE ARCHITECT 02/19/04	DRC CHAIRMAN			
	TRANSPORTATION			
	WATER/WASTEWATER			
	HYDROLOGY	Brett J. Bjorn	2/20/04	
	CIP			CITY ENGINEER — DATE 2-20-04
	CONSTR. COORD.			
	CITY PROJECT NO. 7321.91			SHEET 1 OF 11

CVD 02-18-04 3:20 PM
RN-SERVER/RTIdata/Projects/03-040 Six Parks/Singing Arrow/-RTI Drawings/03040BS

GENERAL NOTES

GOVERNING SPECIFICATIONS

1) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION (INCLUDING ALL UPDATES THROUGH NO. 7).

MONUMENTATION INFORMATION

2) INFORMATION PERTAINING TO THE MONUMENTATION FOR THIS PROJECT MAY BE OBTAINED FROM THE CITY OF ALBQ. PUBLIC WORKS DEPT, SURVEY SECTION.

3) THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT OF ANY COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED, REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

EARTHWORK

4) THE EARTHWORK QUANTITIES ARE BASED ON FINAL VOLUMES COMPACTED IN PLACE. ON-SITE EXCAVATION AND BACKFILL QUANTITY (BID ITEM 0204.01) IS BASED ON A SHRINKAGE FACTOR OF 20%.

5) IRRIGATED TURF AREAS SHALL HAVE A SLOPE OF 4H:1V MAXIMUM, KEEPING SLOPES FLATTER WHEREVER POSSIBLE. SLOPES SHALL TRANSITION SMOOTHLY TO EXISTING GRADES AND ADJACENT STRUCTURES IN ALL CASES.

6) THE DESIGN "R" VALUE FOR THIS PROJECT IS 50. MATERIAL WITH AN "R" VALUE OF LESS THAN 50 SHALL NOT BE PLACED IN, NOR ALLOWED TO REMAIN WITHIN, THE TOP TWO FEET OF FINISHED SUBGRADE FOR ANY AREAS TO BE PAVED.

7) THE CONTRACTOR SHALL WARP SLOPES WHERE NECESSARY TO STAY WITHIN THE RIGHT-OF-WAY OR CONSTRUCTION LIMITS, OR TO MEET EXISTING STRUCTURES.

8) ALL EXCAVATION SHALL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

9) THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF A 35 TON NON-VIBRATING ROLLER MAXIMUM TO OBTAIN THE REQUIRED COMPACTION IN EMBANKMENT AND SUB GRADE IN URBAN OR OTHER AREAS WHERE THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR OTHER PERMANENT STRUCTURES.

10) ROOT ZONES OF EXISTING TREES TO REMAIN SHALL BE PROTECTED DURING GRADING OPERATIONS. THE ROOT ZONE SHALL BE DEFINED AS AN AREA TO EQUAL OR EXCEED 1.5 TIMES THE TREE DIAMETER AT BREAST HEIGHT (DBH) IN INCHES, CONVERTED TO FEET. FOR EXAMPLE A TREE WITH A DBH OF 6 INCHES WOULD TRANSLATE TO A ROOT PROTECTION ZONE WITH A 9 FEET RADIUS FROM THE TRUNK.

11) CONTOURS SHOWN ARE FOR FINAL GRADE. IN GRAVEL MULCH AREAS THE TOP OF SOIL GRADE WILL NEED TO BE ADJUSTED TO ACCOUNT FOR THE DEPTH OF GRAVEL.

WASTE DISPOSAL REQUIREMENTS

12) THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL PAVEMENT MATERIAL REMOVED ON THE PROJECT BY: BREAKING DOWN TO MAXIMUM 4" SIZE AND PLACING WITHIN NEW FILL EMBANKMENTS AT LEAST 2 FEET BELOW FINISHED GRADE; RECYCLING; STOCK PILING; AND/OR, HAULING TO AN APPROVED LANDFILL; IN ACCORDANCE WITH THE REGULATIONS OF THE NEW MEXICO SOLID WASTE ACT.

13) ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE, UNSUITABLE CONSTRUCTION MATERIALS AND DEBRIS FROM CLEARING AND GRUBBING, ARE TO BE PLACED IN AN ENVIRONMENTALLY SUITABLE DISPOSAL SITE DECIDED UPON AND COORDINATED BY THE CONTRACTOR, WITH THE APPROPRIATE REGULATORY AGENCIES. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING OF THE DETAILS OF DISPOSAL OPERATIONS. BORROW MATERIAL, ROCK WASTE, VEGETATIVE DEBRIS, ETC., SHALL NOT BE PLACED IN WETLAND AREAS OR AREAS WHICH MAY IMPACT ENDANGERED SPECIES OR ARCHAEOLOGICAL RESOURCES. AN ARCHAEOLOGICAL SURVEY AND ENVIRONMENTAL CLEARANCE SHALL BE GAINED BY THE CONTRACTOR BEFORE DISPOSAL SITES ARE ACCEPTED.

HAZARDOUS SPILLS REQUIREMENTS

14) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, ETC., WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING DISCOVERIES OF PAST SPILLS AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE NM ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE AT 827-9329. NON-EMERGENCIES MAY BE REPORTED TO 428-2500.

ENVIRONMENTAL COMPLIANCE

15) THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY, INCLUDING THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEMS (NPDES) PROGRAM. FOR INFORMATION, CONTACT THE NPDES CONTACT FOR THE STATE OF NEW MEXICO AT (505) 827-2855. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL PERMITS REQUIRED BY FEDERAL, STATE, AND CITY REGULATIONS FOR NPDES COMPLIANCE.

16) THE AIR POLLUTION CONTROL REGULATION OF THE ALBUQUERQUE - BERNALILLO COUNTY AIR QUALITY CONTROL BOARD LIMIT EMISSIONS OF PARTICULATE MATTER AND THE USE OF CUT BACK ASPHALT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLARIFY THESE RESTRICTIONS WITH THE ENVIRONMENTAL HEALTH DEPARTMENT PRIOR TO SUBMITTAL OF BIDS TO AVOID CONFLICT WITH THE REGULATIONS. CALL THE ENVIRONMENTAL HEALTH DEPARTMENT AT 768-2600.

UTILITIES

17) CAUTION - ALL EXISTING UTILITIES SHOWN REFLECT THE BEST INFORMATION AVAILABLE AND ARE APPROXIMATE ONLY. EXACT DEPTH OF UTILITIES IS UNKNOWN. ADDITIONAL UTILITIES MAY ALSO EXIST WHICH ARE NOT SHOWN.

18) THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WHEN WORKING NEAR THEIR SYSTEMS. UTILITY COMPANIES SHALL BE GIVEN 48 HOURS (WEEKENDS EXCLUDED) ADVANCE NOTICE FOR LINE LOCATION. CALL NEW MEXICO ONE CALL SYSTEM INC. AT 260-1990 REGARDING LOCATION OF UTILITY LINES.

19) IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES AND THEIR APPURTENANCES. ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

20) ALL UTILITY VALVE BOXES, MANHOLES, AND/OR UTILITY POLES WHICH FALL WITHIN CONSTRUCTION ZONE SHALL BE ADJUSTED TO GRADE OR RELOCATED BY THE RESPECTIVE UTILITIES, UNLESS OTHERWISE NOTED ON PLANS. THE CONTRACTOR SHALL COORDINATE SUCH ACTIVITIES IN ORDER TO FACILITATE ADJUSTMENT OR RELOCATION IN A TIMELY MANNER.

GENERAL CONSTRUCTION

21) THE CONTRACTOR IS TO COORDINATE ALL WORK WITH THE PROJECT MANAGER. THE PROJECT MANAGER FOR THIS PROJECT IS ___________ AT PHONE ___-____

22) IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SECURE AND SUPPLY WATER FOR THE PROJECT. THE COST WILL BE INCIDENTAL TO COMPLETION OF THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.

23) ALL EXISTING TREES, SHRUBS OR TURF ON AN EXISTING IRRIGATION SYSTEM SHALL BE PROTECTED AND WATERED DURING CONSTRUCTION; ANY VARIANCE SHALL BE CLEARED THROUGH THE PROJECT MANAGER. REMOVAL OF ANY OTHER EXISTING NON-IRRIGATED TREES OR SHRUBS NECESSARY TO COMPLETE THE PROJECT SHALL BE COORDINATED WITH AND APPROVED BY THE PROJECT MANAGER PRIOR TO ANY REMOVALS.

24) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. ADDITIONAL REMOVALS NOT SHOWN ON THE PLANS MAY BE DESIGNATED BY THE PROJECT MANAGER. ALL REMOVALS, UNLESS OTHERWISE INDICATED, WILL BE INCIDENTAL TO BID ITEM 0201.01-SITE CLEARING AND GRUBBING.

25) THE CONTRACTOR SHALL BE REQUIRED TO CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR RIGHT-OF-WAY LIMITS.

26) ANY BOULDERS OF A SIGNIFICANT SIZE (18" OR LARGER) UNEARTHED DURING PROJECT CONSTRUCTION WILL BE STOCK PILED FOR USE IN THE LANDSCAPED AREAS OF THE PARK. CONSULT WITH LANDSCAPE ARCHITECT REGARDING FINAL PLACEMENT OF THESE BOULDERS.

27) ANY SALVAGEABLE MATERIALS REMOVED FROM THIS PROJECT SHALL BE HAULED AND STOCK PILED AT A LOCAL LOCATION DETERMINED BY PROJECT ENGINEER. HAUL OF SUCH MATERIALS SHALL BE INCIDENTAL TO BID ITEM 0201.01-SITE CLEARING AND GRUBBING.

28) THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIM TO EXISTING WALLS, FENCES, SIDEWALKS, TRAIL SURFACES, IRRIGATION LINES, VALVE BOXES, MANHOLES, CURB AND GUTTER ETC. DURING CONSTRUCTION AND SHALL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTATION OF ANY EXISTING DAMAGE PRIOR TO START OF CONSTRUCTION.

29) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY EXISTING HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

30) SUBGRADE PREPARATION UNDER SIDEWALKS AND DRIVE PADS, AND SUBGRADE AND SUBBASE PREPARATION UNDER CURB AND GUTTER IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF SUCH, AND NO DIRECT PAYMENT SHALL BE MADE FOR THOSE ITEMS OF WORK.

31) A CLEAR ZONE OF FIVE FEET COMPACTED TO 95% MP ON EITHER SIDE OF EXISTING ASPHALT TRAIL SHALL BE PROVIDED (WITH A CROSS SLOPE OF 2% AWAY FROM THE TRAIL) TO MAINTAIN A 20 FOOT WIDE EMERGENCY ACCESS EASEMENT. NO PLANTINGS OR OTHER OBSTRUCTIONS ARE TO BE PLACED WITHIN THIS EASEMENT.

32) UPON COMPLETION OF CONSTRUCTION ALL AREAS WITHIN PROJECT LIMITS WHICH ARE DISTURBED OR ARE TO BE REVEGETATED SHALL BE SEEDED IN ACCORDANCE WITH SECTION 1012 - "NATIVE PLANT SEEDING" OF THE STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN. NO SEEDING SHALL OCCUR WITHIN FIVE FEET (5') OF EDGE OF EXISTING ASPHALT TRAIL (COMPACTED SHOULDER).

33) THE CONTRACTOR SHALL MAINTAIN AN UP-TO-DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE SHALL BE KEPT CURRENT WITHIN TWO WEEKS AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT ENGINEER THROUGHOUT THE PROJECT. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL PAYMENT.

34) QUANTITIES SHOWN HEREIN, FOR THE VARIOUS BID ITEMS, ARE FOR THE CONTRACTOR'S INFORMATION ONLY. PAYMENT SHALL BE BASED ON ACTUAL QUANTITIES AS CONSTRUCTED.

35) THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE SAFETY OF PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION ZONE BY ENSURING THAT ALL NECESSARY SAFETY PRECAUTIONS ARE TAKEN, AS REQUIRED BY FEDERAL, STATE, AND LOCAL AUTHORITIES, INCLUDING, BUT NOT LIMITED TO: GUARD FENCES, BARRICADES, LIGHTS, AND WARNING SIGNS.

36) CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

37) WHEN ABUTTING NEW PAVEMENT TO EXISTING INTERSECTING ASPHALT, SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE AND AT RIGHT ANGLES TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. NO DIRECT PAYMENT WILL BE MADE FOR SAW CUTTING.

ROADWAY CONSTRUCTION

38) FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE COA STANDARD SPECIFICATIONS.

39) THE CONTRACTOR SHALL BE THE RESPONSIBLE PARTY FOR THE IMPLEMENTATION AND MAINTENANCE OF ALL TRAFFIC CONTROL PROCEDURES AND MATERIALS. THE CONTRACTOR SHALL HAVE PERSONNEL AVAILABLE 24 HOURS PER DAY, SEVEN (7) DAYS PER WEEK TO INSPECT AND MAINTAIN TRAFFIC CONTROL DEVICES AS DIRECTED BY THE PROJECT ENGINEER.

40) THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN A TRAFFIC CONTROL DIARY, WHICH SHALL BE AVAILABLE FOR REVIEW BY THE CITY AND /OR HIGHWAY DEPARTMENT PROJECT MANAGERS. COST OF THIS WORK IS TO BE INCLUDED IN THE UNIT BID PRICE FOR BID ITEM 0019.01 CONSTRUCTION TRAFFIC CONTROL.

41) ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.

42) ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. COORDINATE LOCATION FOR NEW SIGNS AND/OR POSTS WITH ENGINEER.

43) WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE NOTED.

44) REMOVE AND REPLACE PAVEMENT ONE FOOT (1') WIDE ADJACENT TO LIP OF GUTTER WHEN CONSTRUCTING CURB AND GUTTER ADJACENT TO EXISTING ASPHALT CONCRETE PAVEMENT, UNLESS PRIOR APPROVAL IS OBTAINED FROM THE ENGINEER. REFERENCE COA STANDARD DRAWING #2415.

45) THE FINAL SURFACE OF THE REPLACED PAVEMENT AND GUTTER SHALL CONFORM TO A GRADE LINE SET BY THE CONTRACTOR SUCH THAT THE PAVEMENT AND GUTTER WILL READILY DRAIN AND DOES NOT VARY SIGNIFICANTLY FROM ADJACENT EXISTING GRADES.

CONSTRUCTION STAKING

46) BID ITEM 004.01 CONSTRUCTION STAKING SHALL INCLUDE ALL SURVEYING AND CONTROL STAKING NECESSARY TO ESTABLISH PROJECT CENTERLINE, TOE OF SLOPE CATCH POINTS AND OTHER FEATURES AS REQUIRED FOR CONSTRUCTION OF THE PROJECT.

CONSTRUCTION SURVEYING

47) THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND RECORDING ALL EXISTING AND FINAL GRADES BY CROSS-SECTIONING OR OTHER MEANS, FOR THE PURPOSE OF DETERMINING EARTHWORK QUANTITIES. THESE RECORDS WILL BE SUBJECT TO REVIEW BY THE CITY AND/OR ENGINEER FOR VERIFICATION OF PAY QUANTITIES.

Begin 3/04 - 1/05

AS BUILT INFORMATION

CONTRACTOR COA.
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY COA — DATE
FIELD VERIFICATION BY COA — DATE
DRAWINGS CORRECTED BY R Technology — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
COA inspector: COA Parks DMD

BENCH MARKS

STATION NAME: 8-L22 - CORNER OF CENTRAL AND TRAMWWAY, STANDARD ACS 3¼" ALUM. CAP STAMPED "8-L22, 1990", SET FLUSH IN TOP OF CURB, NAD 27; N: 1,480114.80 E: 426,169.07; ELEV: 5665.443', NGVD 29
STATION NAME; 5-L23 - 40 PENNY NAIL W SIDE OF POWER POLE WITH PNM PLATE "J17C, 416", E SIDE OF FOUR HILLS RD. SE, 382'± N OF CENTERLINE OF PINON CREEK RD. (MEAS. ALONG POWER LINES), 47.9' NNW OF THE SW CORNER OF BLOCK WALL, 1.3' BELOW GROUND. ELEV. 5613.849', NGVD 29

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEERS SEAL

STATE OF NEW MEXICO — CORINNE V. O'HARA — #342 — REGISTERED LANDSCAPE ARCHITECT
02/19/04

REVISIONS			
NO.	DATE	REMARKS	BY

DESIGN		
DESIGNED BY CVO	DATE	12/31/03
DRAWN BY CVO	DATE	12/31/03
CHECKED BY RMO	DATE	12/31/03

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 7321.91 0205

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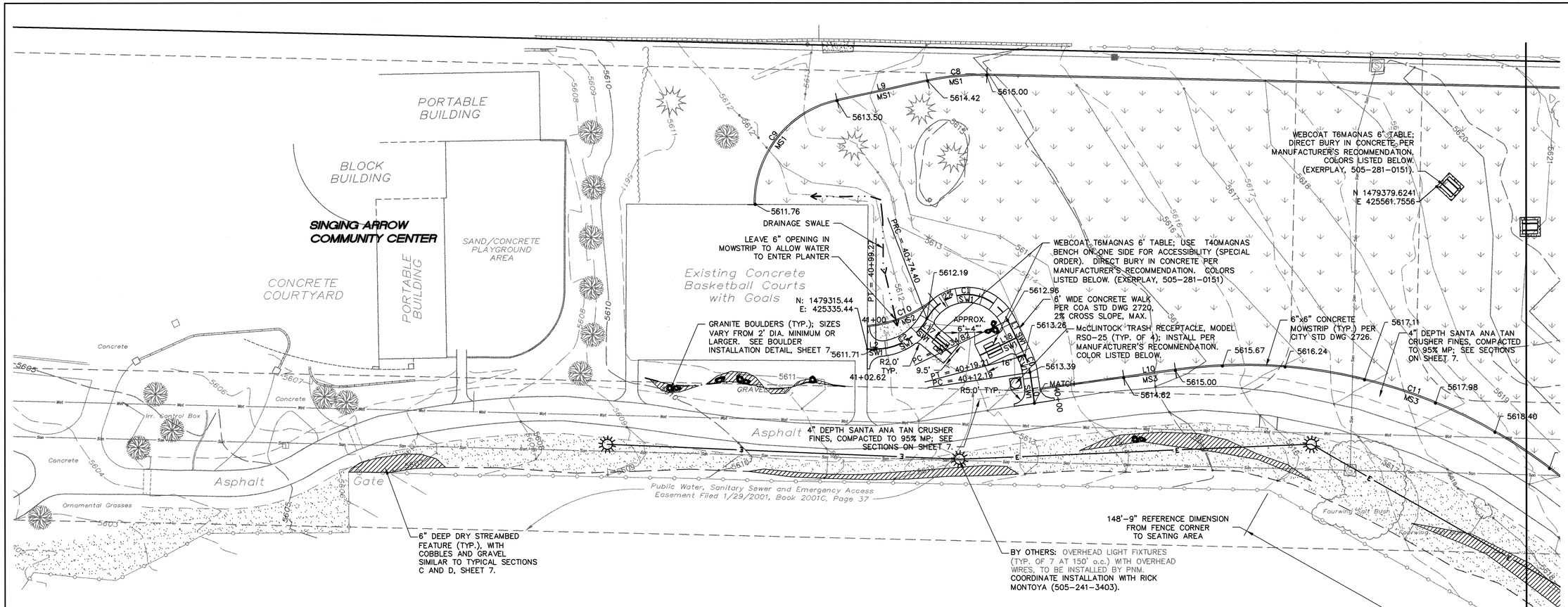
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
PARKS AND RECREATION DIVISION

TITLE: **SINGING ARROW PARK (PHASE III)**
13001 SINGING ARROW AVE. SE, ALBUQUERQUE, NM
GENERAL NOTES

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

PROJECT NO.	7321.91	MAP NO.	L-22	SHEET 2 OF 11



CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	CHORD	CHORD DIRECTION
C0SW1	7.03	23.00	3.54	7.00	N17°03'21"W
C1SW1	39.58	18.00	35.32	32.07	N88°48'06"W
C2SW1	24.87	23.00	13.81	23.68	N59°10'59"E
C3SW2	68.32	100.00	35.55	67.00	S11°44'27"W
C4SW2	110.94	203.00	56.89	109.56	N15°39'22"E
C5SW4	123.37	303.00	62.55	122.52	S17°50'15"E
C6SW4	54.16	27.00	42.33	45.53	S86°58'03"E
C7SW4	86.36	197.00	43.88	85.67	N23°00'31"E
C8MS1	23.71	99.50	11.91	23.66	S84°28'19"W
C9MS1	56.61	41.50	33.70	52.33	S38°33'46"W
C10MS2	28.56	50.00	14.68	28.17	N68°14'12"E
C11MS3	192.36	199.50	104.40	185.00	N70°26'20"W
C12MS3	7.84	300.50	3.92	7.84	S43°33'47"E
C13MS3	4.94	3.50	2.98	4.54	S84°44'23"E
C14MS3	87.68	34.00	117.60	65.33	N51°17'45"W
C15MS3	4.99	3.50	3.03	4.58	S18°17'55"E
C16MS3	35.21	113.40	17.75	35.07	S68°04'10"E
C17MS4	109.70	200.50	56.26	108.33	N46°12'00"E
C18MS5	10.98	176.18	5.49	10.97	S56°56'17"W
C19MS5	50.02	300.50	25.07	49.96	S50°23'05"W
C20MS5	54.81	133.02	27.80	54.42	S71°36'31"E
C21MS5	12.83	32.13	6.50	12.74	N84°06'36"E
C22MS5	10.33	3391.75	5.17	10.33	N70°12'09"E
C23MS7	38.23	100.00	19.35	38.00	N77°35'33"E
C24MS7	153.52	135.50	86.18	145.44	N34°10'58"E

LINE TABLE

LINE	LENGTH	BEARING
L0SW1	12.19	N08°18'16"W
L1SW1	15.61	N25°48'26"W
L2SW1	3.35	N89°50'18"W
L3SW2	0.75	N07°49'49"W
L4SW2	24.16	N00°00'00"E
L5SW3	144.73	S89°10'32"E
L6SW4	35.46	S06°46'41"E
L7SW4	50.34	N10°17'12"E
L8MS1	558.11	N88°42'01"W
L9MS1	36.79	S77°38'41"W
L10MS3	20.82	N82°10'04"E
L11MS5	25.86	S45°36'58"W
L12MS5	118.49	S59°48'18"E
L13MS6	49.92	N69°59'56"E
L14MS7	41.69	N88°32'43"E
L15MS7	20.92	N66°38'23"E
L16MS7	19.93	N01°43'34"E
L17SW1	16.00	S50°11'16"E
L18SW1	16.00	S64°11'34"W

SITE LAYOUT GENERAL NOTES

1. CONCRETE MOW STRIP IS TO BE CONSTRUCTED OUTSIDE ROOT ZONE OF EXISTING TREES TO REMAIN. CONSULT WITH LANDSCAPE ARCHITECT AS NECESSARY WHERE THIS CAUSES A DEVIATION FROM THE PLANNED ALIGNMENT OF MOWSTRIP. THE ROOT ZONE SHALL BE DEFINED AS AN AREA TO EQUAL OR EXCEED 1.5 TIMES THE TREE DIAMETER AT BREAST HEIGHT (DBH) IN INCHES, CONVERTED TO FEET. FOR EXAMPLE A TREE WITH A DBH OF 6 INCHES WOULD TRANSLATE TO A ROOT PROTECTION ZONE WITH A 9 FEET RADIUS FROM THE TRUNK.

SITE FURNISHINGS INFORMATION

ALL BENCHES AND PICNIC TABLES FROM WEBCOAT, AVAILABLE THROUGH EXERPLAY, INC. (505-281-0151)

PRODUCT#	QUANTITY	DESCRIPTION
B4MODERNS	5	4' BENCH WITHOUT BACK
B4WBMODERNS	3	4' BENCH WITH CONTOURED BACK
B4WBMODERNS-ADDON	3	4' ADD-ON BENCH WITH CONTOURED BACK
T6MAGNAS	3	6 FT. PICNIC TABLE
T6MAGNAS (ADA)	3	*6 FT. PICNIC TABLE W/ ONE 4' BENCH

WEBCOAT STANDARD COLORS FOR TOPS AND SEATS TO BE PURPLE, FRAME COLOR TO BE BLACK FOR ALL BENCHES AND PICNIC TABLES.
*NOTE: SPECIAL ORDER ON ADA TABLES

TRASH RECEPTACLES FROM McCLINTOCK METAL (800-350-3588):

RS025	4	COLOR: TNEMEC SERIES 74 DARK GREEN

LEGEND

- 5/8" REBAR FOUND (LS # NOTED)
- COMPUTED BOUNDARY POINT
- WATER VALVE
- CONCRETE CURB & GUTTER
- SANITARY MANHOLE
- STORM SEWER MANHOLE
- TELEPHONE PEDESTAL
- LIGHT POLE
- IRRIGATION CONTROL BOX
- BOLLARD
- EXISTING DECIDUOUS TREE (2.5-3.5" CAL.)
- EXISTING EVERGREEN TREE (AVERAGE 10-14' HEIGHT)
- COOL SEASON TURF PER COA STANDARD
- WARM SEASON NATIVE TURF: 1:1 BLUE GRAMA/BUFFALOGRASS
- 50:50 MIX OF 6-4" AND 4-2" SANTA ANA TAN COBBLES
- 3/4" SANTA ANA TAN GRAVEL MULCH

N

SCALE: 1" = 20'

0 20 40 60

REVISIONS NOTES FOR SHEET 3 AND 4:

1. STATIONING INFORMATION ADDED TO SIDEWALKS AND MOWSTRIPS.
2. ELEVATIONS ADDED TO SOME MOWSTRIPS AND SIDEWALKS.

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
FIELD CHECKS ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

STATION NAME: 8-L22 - CORNER OF CENTRAL AND TRAMWAY, STANDARD ACS 3¼" ALUM. CAP STAMPED "8-L22, 1990", SET FLUSH IN TOP OF CURB, NAD 27; N: 1,480114.80 E: 426,169.07; ELEV. 5665.443', NGVD 29

STATION NAME: 5-L23 - 40 PENNY NAIL W SIDE OF POWER POLE WITH PNM PLATE "J17C, 416', E SIDE OF FOUR HILLS RD. SE, 382'± N OF CENTERLINE OF PINON CREEK RD. (MEAS. ALONG POWER LINES), 47.9' NNW OF THE SW CORNER OF BLOCK WALL, 1.3' BELOW GROUND. ELEV. 5613.849', NGVD 29

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

STATE OF NEW MEXICO — CORNELIO CHAVEZ — 8342 — LICENSED LANDSCAPE ARCHITECT — 3/18/04

NO.	DATE	REMARKS	BY
1	03/17/04	REPLACED SHEET 3 WITH REVISED SHEET 3A.	CVO
		SEE REVISION NOTES FOR MORE INFORMATION	

REVISIONS

DESIGN

DESIGNED BY RMO DATE 12/30/03
DRAWN BY CVO / RW DATE 12/30/03
CHECKED BY RMO DATE 12/30/03

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2 6 7 3 2 1 . 9 1 3 A 0 5

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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
PARKS AND RECREATION DIVISION

TITLE: **SINGING ARROW PARK (PHASE III)**
13001 SINGING ARROW AVE. SE, ALBUQUERQUE, NM
SITE LAYOUT-WEST (REVISED)

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

PROJECT NO. 7321.91 | MAP NO. L-22 | SHEET 3A OF 11

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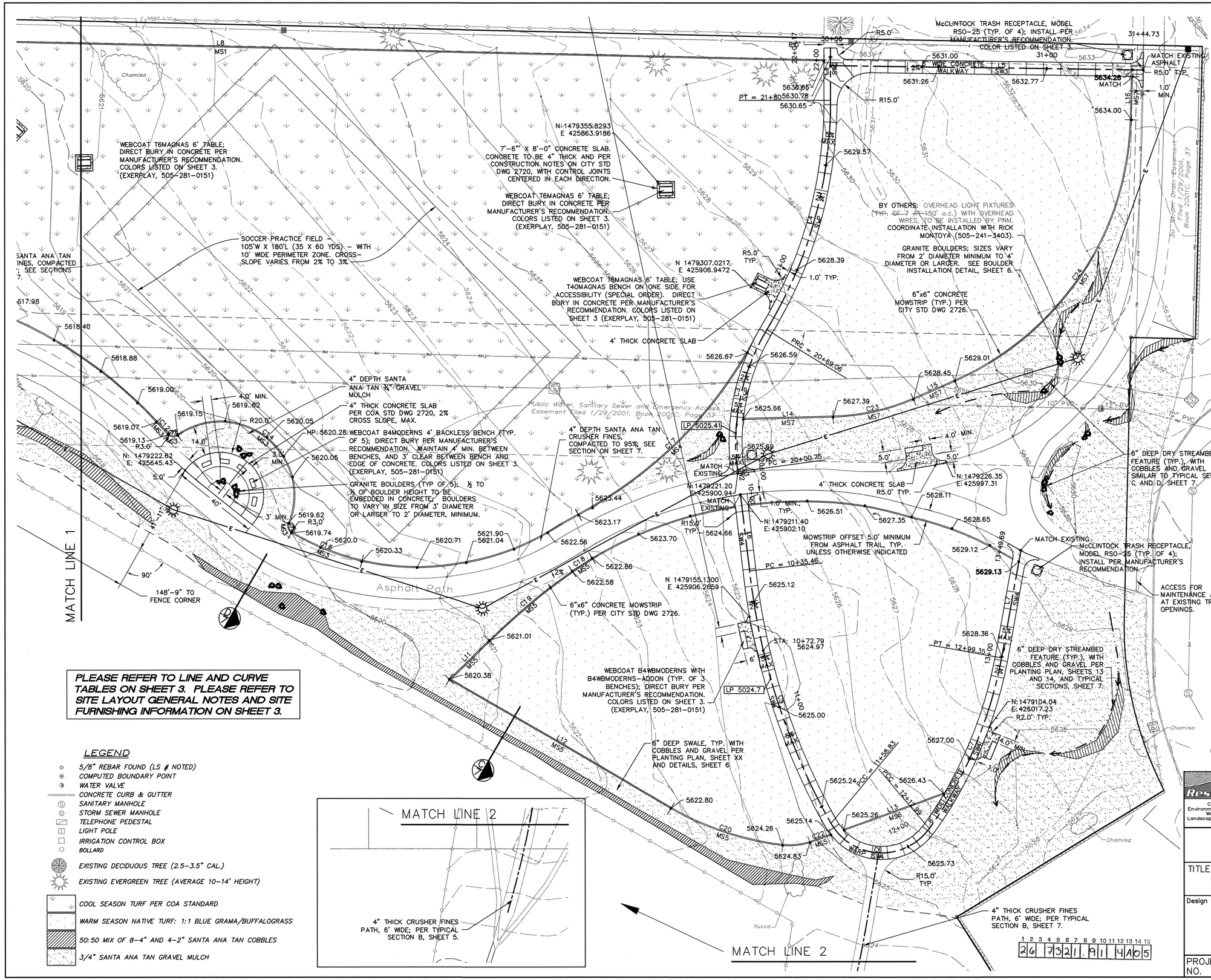

PLEASE REFER TO LINE AND CURVE TABLES ON SHEET 3. PLEASE REFER TO SITE LAYOUT GENERAL NOTES AND SITE FURNISHING INFORMATION ON SHEET 3.

LEGEND

- 5/8" REBAR FOUND (LS # NOTED)
- COMPUTED BOUNDARY POINT
- WATER VALVE
- CONCRETE CURB & GUTTER
- SANITARY MANHOLE
- STORM SEWER MANHOLE
- TELEPHONE PEDESTAL
- LIGHT POLE
- IRRIGATION CONTROL BOX
- BOLLARD
- EXISTING DECIDUOUS TREE (2.5-3.5" CAL.)
- EXISTING EVERGREEN TREE (AVERAGE 10-14' HEIGHT)
- COOL SEASON TURF PER COA STANDARD
- WARM SEASON NATIVE TURF: 1:1 BLUE GRAMA/BUFFALOGRASS
- 50:50 MIX OF 8-4" AND 4-2" SANTA ANA TAN COBBLES
- 3/4" SANTA ANA TAN GRAVEL MULCH

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

STATION NAME: B-L22 - CORNER OF CENTRAL AND TRAMWAY, STANDARD ACS 3/4" ALUM. CAP STAMPED "B-L22, 1990", SET FLUSH IN TOP OF CURB, NAD 27; N: 1,480114.80 E: 426,169.07; ELEV: 5665.443', NGVD 29

STATION NAME: S-L23 - 40 PENNY NAIL W SIDE OF POWER POLE WITH PNM PLATE "J17C, 416", E SIDE OF FOUR HILLS RD. SE. 382'± N OF CENTERLINE OF PINON CREEK RD. (MEAS. ALONG POWER LINES), 47.9' NNW OF THE SW CORNER OF BLOCK WALL, 1.3' BELOW GROUND. ELEV. 5613.849', NGVD 29

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

STATE OF NEW MEXICO — CORINNE V. O'HARA #5342 — LICENSED PROFESSIONAL ENGINEER — 3/18/04

NO.	DATE	REMARKS	BY
1	03/17/04	REPLACED SHEET 4 WITH REVISED SHEET 4A	CVO
		SEE REVISION NOTES, SHEET 3A	

REVISIONS

DESIGN		DATE
DESIGNED BY	RMO	12/30/03
DRAWN BY	CVO / RW	12/30/03
CHECKED BY	RMO	12/30/03

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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
PARKS AND RECREATION DIVISION

TITLE: **SINGING ARROW PARK (PHASE III)**
13001 SINGING ARROW AVE. SE, ALBUQUERQUE, NM
SITE LAYOUT-EAST (REVISED)

Design Review Committee | City Engineer Approval

Last Design Update: No./Day/Yr. | No./Day/Yr.

PROJECT NO. 7321.91 | MAP NO. L-22 | SHEET 4A OF 11

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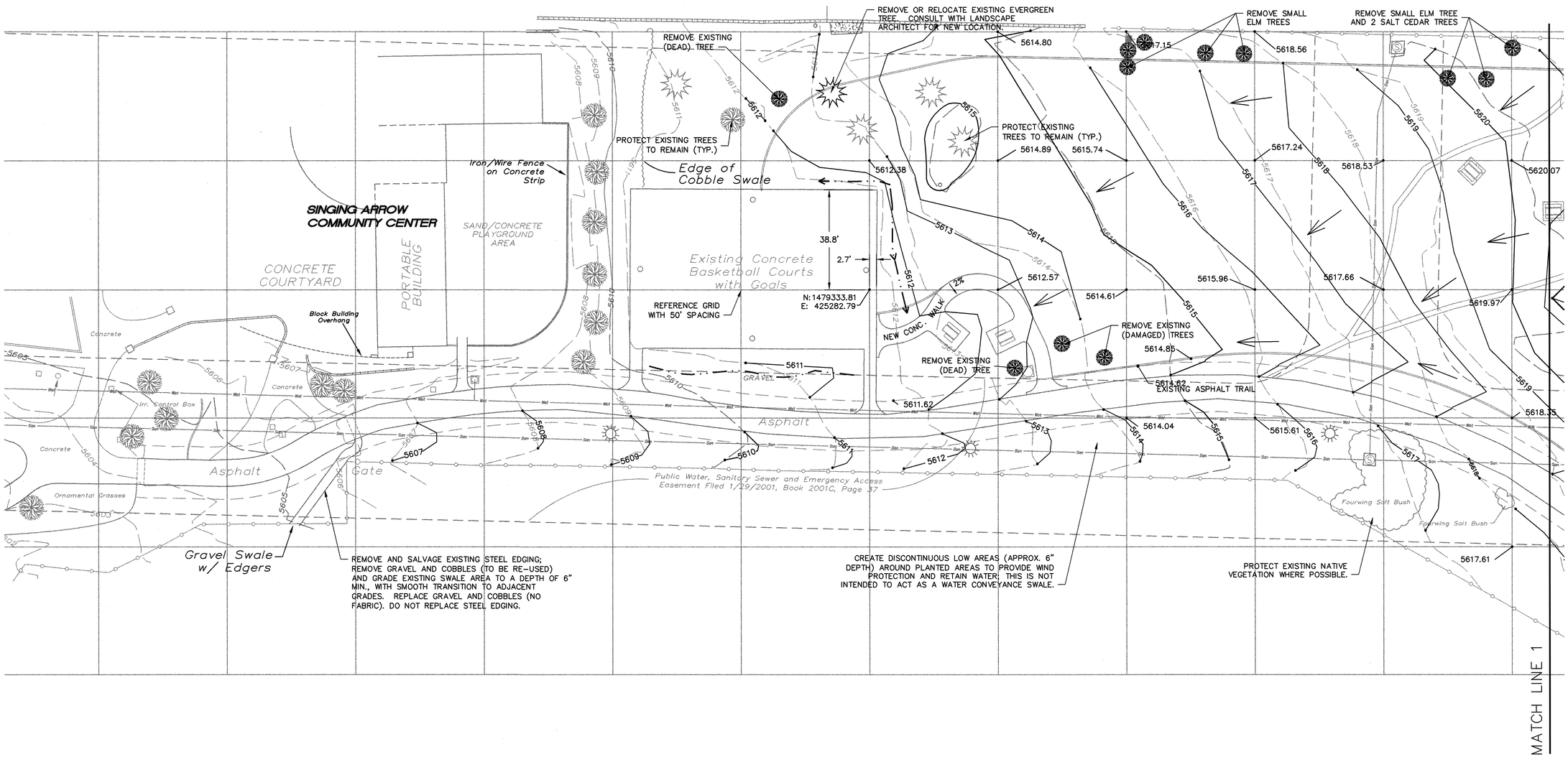

LEGEND

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- COMPUTED BOUNDARY POINT
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- BOLLARD
- EXISTING DECIDUOUS TREE (2.5-3.5" CAL.)
- EXISTING EVERGREEN TREE (AVERAGE 10-14' HEIGHT)
- PROPOSED DRY STREAMBED FEATURE OR 6" DEEP SWALE

GRADING AND DRAINAGE INFORMATION

RUNOFF DATA FROM "PROCEDURE FOR 40 ACRE AND SMALLER BASINS":

	EXISTING	PROPOSED
LAND TREATMENT		
A	0.0%	0.0%
B	0.0%	68.4%
C	93.7%	21.7%
D	6.3%	9.9%
100 YR VOLUME ac-ft):		
6-HR	0.572	0.481
24-HR	0.586	0.501
4-DAY	0.608	0.537
10-DAY	0.633	0.577
Q-PEAK (cfs)		
2 YR	4.348	2.595
10 YR	10.563	7.976
100 YR	17.957	15.257

N

SCALE: 1" = 20'

0 20 40 60

AS BUILT INFORMATION

CONTRACTOR

WORK STAKED BY — DATE
INSPECTED BY — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

STATION NAME: 8-L22 - CORNER OF CENTRAL AND TRAMWAY, STANDARD ACS 3¼" ALUM. CAP STAMPED "8-L22, 1990", SET FLUSH IN TOP OF CURB, NAD 27; N: 1,480114.80 E: 426,169.07; ELEV: 5665.443', NGVD 29

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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

MICHAEL D. SMITH — NEW MEXICO — 16020 — LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	CVO	12/31/03
DRAWN BY	CVO / RW	12/31/03
CHECKED BY	RMO	12/31/03

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Brad S. Bjornstad 2/20/04

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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
PARKS AND RECREATION DIVISION

TITLE: **SINGING ARROW PARK (PHASE III)**
13001 SINGING ARROW AVE. SE, ALBUQUERQUE, NM
DEMOLITION/GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

PROJECT NO. 7321.91 | MAP NO. L-22 | SHEET 5 OF 11

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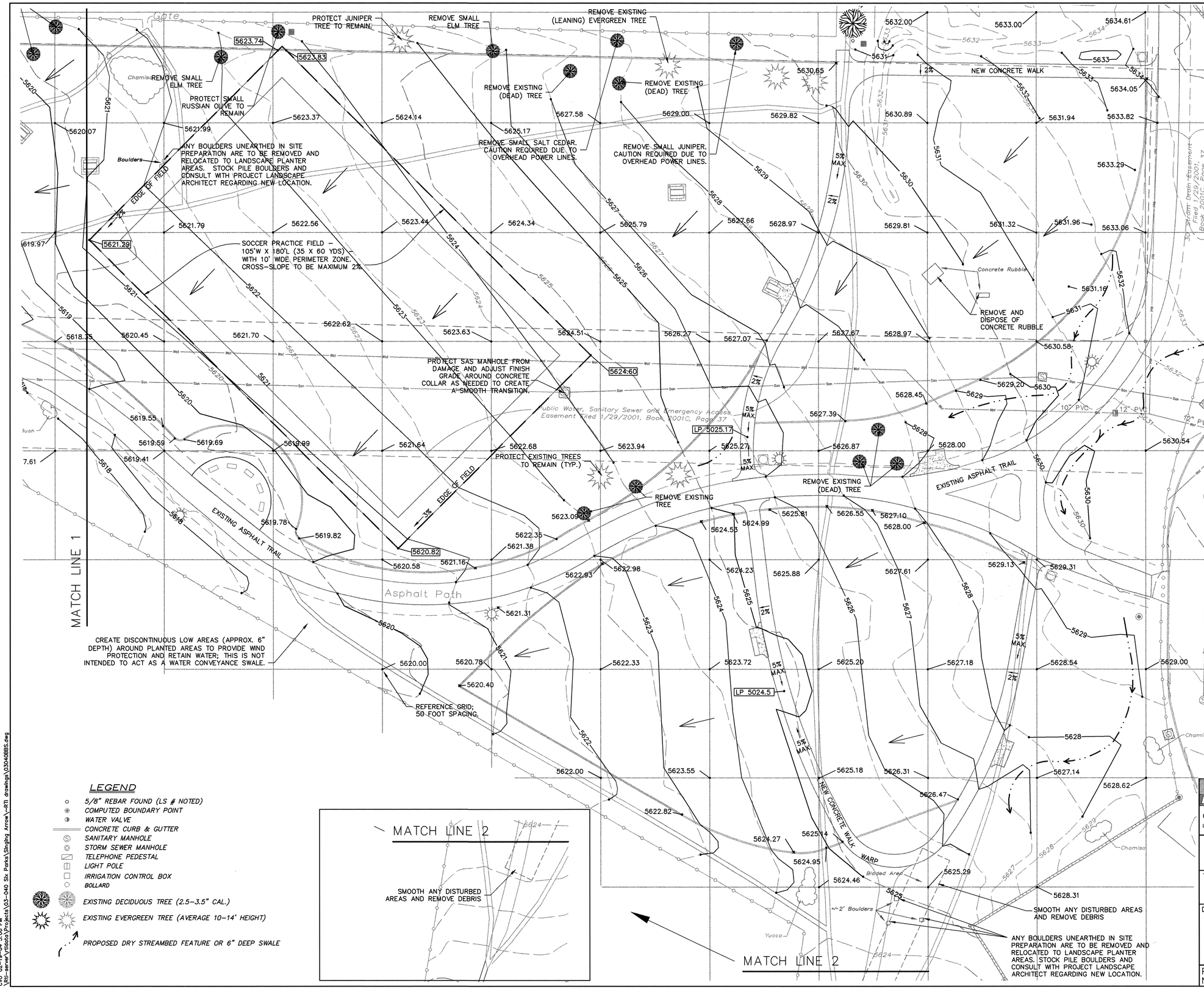

LEGEND

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- PROPOSED DRY STREAMBED FEATURE OR 6" DEEP SWALE

SCALE: 1" = 20'

0 20 40 60

Brad S. Bjorn 2/20/04

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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
PARKS AND RECREATION DIVISION

TITLE: **SINGING ARROW PARK (PHASE III)**

13001 SINGING ARROW AVE. SE, ALBUQUERQUE, NM

DEMOLITION/GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

PROJECT NO. 7321.91 | MAP NO. L-22 | SHEET 6 OF 11

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

STATION NAME: 8-L22 – CORNER OF CENTRAL AND TRAMWAY, STANDARD ACS 3¼" ALUM. CAP STAMPED "8-L22, 1990", SET FLUSH IN TOP OF CURB, NAD 27; N: 1,480114.80 E: 426,169.07; ELEV: 5685.443', NGVD 29

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AS BUILT INFORMATION

CONTRACTOR		DATE
WORK STAKED BY		DATE
INSPECTOR'S FIELD CHANGE BY		DATE
VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

ENGINEERS SEAL

MICHAEL B. SMITH — NEW MEXICO — LICENSED PROFESSIONAL ENGINEER — 10201

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	CVO	DATE	12/31/03
DRAWN BY	CVO / RW	DATE	12/31/03
CHECKED BY	RMO	DATE	12/31/03

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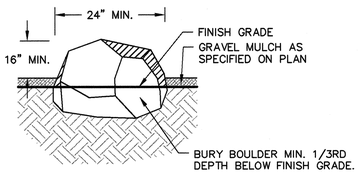
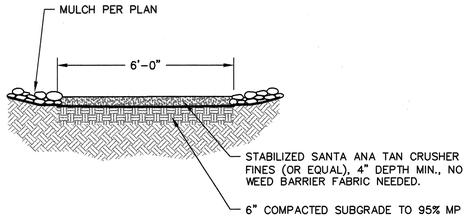


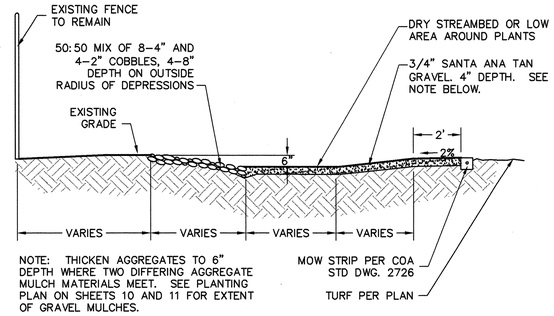
A BOULDER INSTALLATION DETAIL

NO SCALE



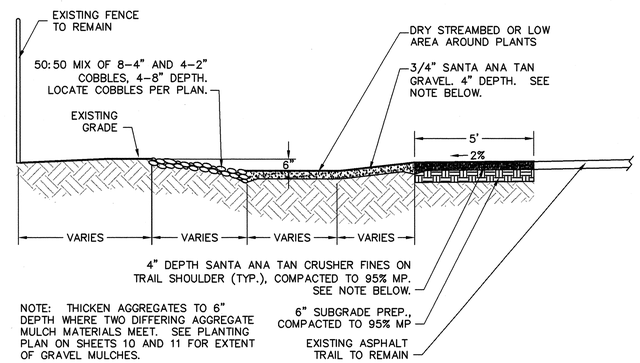
B CRUSHER FINES PATHWAY TYPICAL SECTION

NO SCALE



C/4 TYPICAL SECTION C – ADJACENT TO MOWSTRIP

SCALE 1" = 3'



D/4 TYPICAL SECTION D – ADJACENT TO ASPHALT TRAIL

SCALE 1" = 3'

AS BUILT INFORMATION

CONTRACTOR

WORK STAKED BY — DATE

ACCEPTANCE INSPECTION BY — DATE

FIELD VERIFICATION BY — DATE

DRAWINGS CORRECTED BY — DATE

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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

STATE OF NEW MEXICO — DONALD VICTORA — #342 — LICENSED PROFESSIONAL SURVEYOR — 12/18/03

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

		DATE
DESIGNED BY	CVO	12/30/03
DRAWN BY	CVO	12/30/03
CHECKED BY	RMO	12/30/03

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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
PARKS AND RECREATION DIVISION

TITLE: **SINGING ARROW PARK (PHASE III)**
13001 SINGING ARROW AVE. SE, ALBUQUERQUE, NM
TYPICAL SECTIONS AND DETAILS

Design Review Committee | City Engineer Approval

Last Design Update: Mo./Day/Yr. | Mo./Day/Yr.

PROJECT NO. 7321.91 | MAP NO. L-22 | SHEET 7 OF 11

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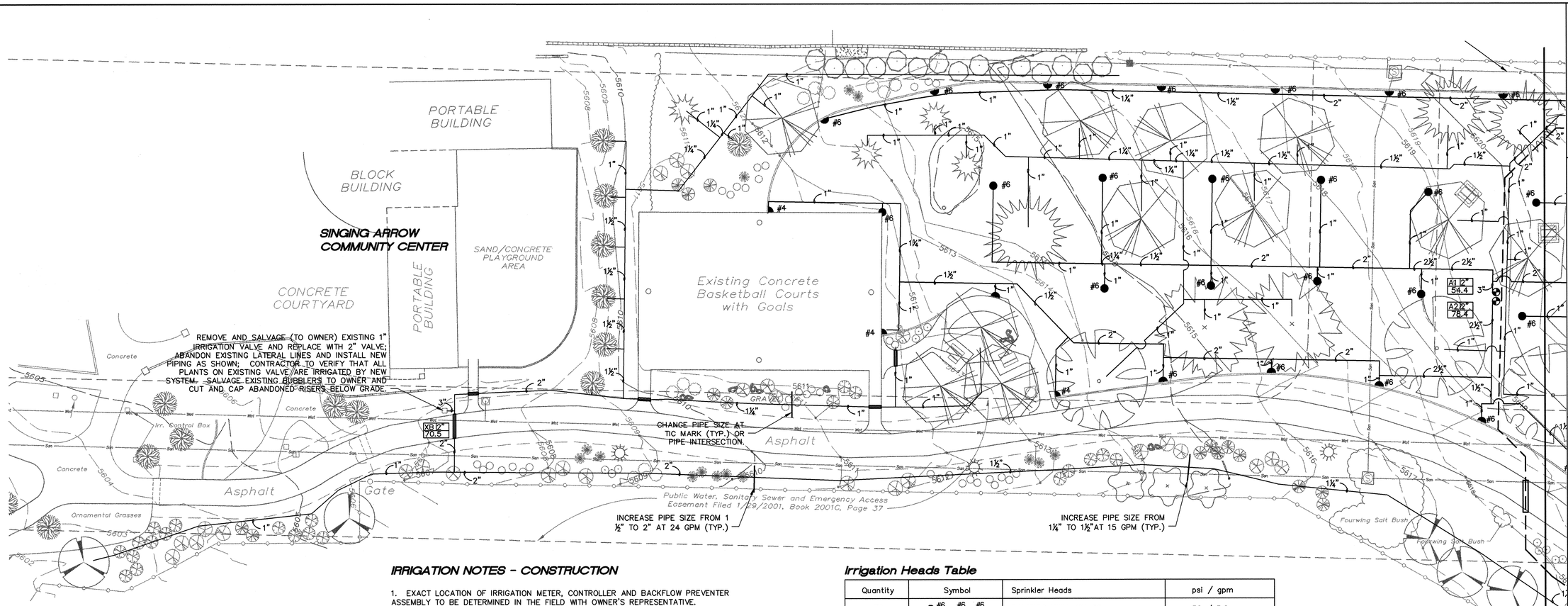


IRRIGATION NOTES - GENERAL

1. DESIGN PRESSURE AT POINT OF CONNECTION IS 83.0 psi PER COA WATER UTILITY DEPT. IRRIGATION CONTRACTOR SHALL VERIFY PRESSURE AND FLOW PRIOR TO CONSTRUCTION. WATER SOURCE IS EXISTING 10" WATER MAIN. CONTRACTOER TO SUBMIT PRESSURE INFORMATION TO LANDSCAPE ARCHITECT (243-7300) FOR NOTICE TO PROCEED WITH PLAN AS DESIGNED, OR WITH MODIFICATIONS.

2. IRRIGATION SYSTEM DESIGN IS CONCEPTUAL. CONTRACTOR IS RESPONSIBLE FOR ROUTING PIPE TO ENSURE THAT PIPING IS OUTSIDE DRIP LINES OF EXISTING TREES, TO AVOID CONFLICTS WITH EXISTING UTILITES. ALL IRRIGATION COMPONENTS ARE TO BE A MINIMUM OF 8' FROM TREE CENTERS.

3. POWER FOR CONTROLLER AND HOT BOX TO COME FROM NEW TRANSFORMER TO BE PROVIDED BY PNM (FOR LIGHTING) AT EAST END OF PARK. COORDINATE WITH RICK MONTOYA (241-3403) OF PNM.

TREE LEGEND

Symbol	Common Name	BUBBLER USE 3/TREE	TOTAL GPM
	Broadleaf Deciduous Trees		
	Arizona Sycamore	1402	1.50
	Chinese Pistache	1402	1.50
	Desert Willow	1401	0.75
	New Mexico Olive	1401	0.75
	Burr Oak	1402	1.50
	Broadleaf Evergreen Trees		
	Cork Oak	1402	1.50
	Conifer Evergreen Trees		
	Austrian Pine	1402	1.50
	Montezuma Cypress	1402	1.50
	EXISTING DECIDUOUS TREE	1402	1.50
	EXISTING EVERGREEN TREE	1402	1.50

ALL SHRUBS TO RECEIVE 1 X 0.25 GPM (#1401) BUBBLER

IRRIGATION NOTES - CONSTRUCTION

1. EXACT LOCATION OF IRRIGATION METER, CONTROLLER AND BACKFLOW PREVENTER ASSEMBLY TO BE DETERMINED IN THE FIELD WITH OWNER'S REPRESENTATIVE.

2. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION INCLUDING ALL REVISIONS.

3. CLASS 200 PVC SLEEVES TO BE PROVIDED AT ALL PAVEMENT CROSSINGS; SLEEVES TO BE SIZED AT LEAST 2½ TIMES THE PIPE SIZE TO BE SLEEVED. SEAL ENDS WITH TAPE.

4. USE THE LABELS ON THE PIPES AND THE PIPE SIZING CHART BELOW TO DETERMINE LATERAL PIPE SIZE FOR ALL BUBBLER ZONES. SEE BUBBLER INFORMATION FOR BUBBLER NOZZLE/PLANT SPECIES RELATIONSHIP.

BUBBLER ZONE LATERAL PIPE SIZING CHART

Pipe size	gpm
1"	0-8
1¼"	8-15
1½"	15-24
2"	24-45
2½"	45-70
3"	70-110

5. SPRINKLER STAKING: THE SPRINKLER LOCATIONS SHALL BE PRECISELY LOCATED BY THE USE OF SURVEY GRADE GPS EQUIPMENT OR CONVENTIONAL SURVEY METHODS. THE FINAL STAKED SPRINKLER LOCATIONS SHALL BE BASED ON AS-BUILT SURVEY DATA OF THE HARDSCAPE SURROUNDING THE TURF AREAS.

THE IRRIGATION CONSULTANT SHALL GPS SURVEY THE HARDSCAPE AND STAKE THE LOCATIONS OF THE ROTARY SPRINKLERS. THE COSTS OF THESE SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
OR
THE CONTRACTOR SHALL HIRE HIS OWN SURVEY FIRM TO PROVIDE AS-BUILT SURVEY DATA OF THE HARDSCAPE AREAS SURROUNDING THE TURF AREAS. THE DATA SHALL THEN BE FORWARDED TO THE IRRIGATION CONSULTANT, WHO WILL ADJUST SPRINKLER LOCATIONS ACCORDINGLY BASED ON THIS DATA. THE IRRIGATION CONSULTANT SHALL PROVIDE THE COORDINATE DATA OF EACH SPRINKLER LOCATION TO THE CONTRACTOR'S SURVEY FIRM TO FIELD LOCATE. THE COSTS OF THESE SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

6. CERTIFIED LANDSCAPE IRRIGATION AUDIT: THE CONTRACTOR SHALL INSTALL ALL SPRINKLER HEADS WITH THE SPECIFIED NOZZLES AND ADJUST ALL PRESSURE REGULATORS SO THAT THE LAST SPRINKLER (FARTHEST FROM VALVE) ON EACH ZONE IS OPERATING AT 50 PSI. THE CONTRACTOR SHALL ADJUST ALL SPRINKLER ARCS SO THAT OVERSPRAY ONTO HARDSCAPE IS MINIMIZED - THE CONTRACTOR SHALL NOT ADJUST THE THROWING RADIUS OF ANY SPRINKLER PRIOR TO THE WATER AUDIT UNLESS DIRECTED TO DO SO BY THE IRRIGATION CONSULTANT. THE IRRIGATION CONSULTANT (IN CONJUNCTION WITH THE CONTRACTOR) SHALL ADJUST THE THROW RADIUS OF PERTINENT SPRINKLERS AFTER THE AUDIT HAS BEEN CONDUCTED.

PRIOR TO THE INSTALLATION OF SEED OR SOD, THE CONTRACTOR SHALL HIRE A CERTIFIED LANDSCAPE IRRIGATION AUDITOR TO PERFORM AN IRRIGATION AUDIT OF THE ROTARY SPRINKLER SYSTEM. THE AUDIT RESULTS SHALL MEET THE MINIMUM REQUIREMENTS SET FORTH IN THE CITY OF ALBUQUERQUE'S WASTEWATER ORDINANCE BEFORE PLANTING. THE RESULTS SHALL BE PRESENTED IN WRITING TO THE IRRIGATION CONSULTANT. THE COSTS OF THESE SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

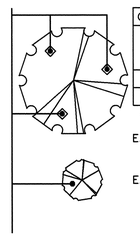
Irrigation Heads Table

Quantity	Symbol	Sprinkler Heads	psi / gpm
70	#6 #6 #6	RAINBIRD 7005-SS-06	50 / 5.6
63	#4 #4 #4	RAINBIRD 7005-SS-04	50 / 3.8

Irrigation Equipment Legend

- M — 3" WATER METER (WATER METER ADDRESS 13229 RACHEL RD. SE)
- Z — BACKFLOW PREVENTION ASSEMBLY: FEBCO 880-3" IN HOTBOX HB3N ENCLOSURE; WITH RAIN BIRD 300-BPES MASTER VALVE (3") AND MASTERMETER MMT 3" FLOW METER ; (REFERENCE COA STD. DWG. 2701)
- A — MOTOROLA SCORPIO AC IS-S2A-RN-SS, 16 STATION CONTROLLER. CONTRACTOR TO VERIFY POSITIVE COMMUNICATION WITH CLOSEST IRRINET UNIT LOCATED AT MANZANO BALL FIELDS PRIOR TO INSTALLATION. FIELD SURVEY SERVICES AVAILABLE FROM MARK MATHES OF WateResources, INC. 505-293-3434 ($200.00 FEE).
- MAINLINE ISOLATION GATE VALVE ASSEMBLY (REFERENCE COA STD. DWG. 2707) - VERIFY DESIRED LOCATIONS WITH PARKS MAINTENACE PERSONNEL (857-8650).
- IRRIGATION MAIN LINE: SCHEDULE 40 PVC; SOLVENT WELD (6") (approx. 1500' length)
- LATERAL PIPE: SCHEDULE 40 PVC; SOLVENT WELD (SIZE PER PLAN)
- RAIN BIRD PEB AUTOMATIC VALVE ASSEMBLY - SIZE PER VALVE LABEL (15 TOTAL); COA STD. DWG. 2703
- VALVE LABEL: #/SZ/GPM — #=STATION NUMBER; SZ=VALVE SIZE; GPM=LATERAL DISCHARGE IN GALLONS PER MINUTE

BUBBLER INFORMATION



Quantity	Bubbler	GPM	Plant Species (See legend at left)
138	Rain Bird 1402	0.50	Arizona Sycamore, Chinese Pistache, Cork Oak, Austrian Pine, Montezuma Cypress, Burr Oak and all existing trees
*63	Rain Bird 1401	0.25	Desert Willow, New Mexico Olive
*309	Rain Bird 1401	0.25	All shrubs

*372 total Rain Bird 1401s

EACH TREE TO RECEIVE 3 BUBBLERS WITH TRIANGULAR SPACING PER DETAIL AT LEFT.

EACH SHRUB TO RECEIVE ONE 0.25 GPM BUBBLER

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 6 7 3 2 1 1 . 9 1 8 A 0 5

REVISION NOTES FOR SHEETS 8 AND 9:

1. PIPE LABELS ADDED TO BUBBLER VALVES AND ADDITIONAL INFORMATION PROVIDED REGARDING BUBBLER SIZE RELATED TO PLANT SPECIES.
2. MINOR CORRECTIONS TO LEGEND.
3. CORRECTIONS TO VALVE LABELS.

SCALE: 1" = 20'

0 20 40 60

AS BUILT INFORMATION
CONTRACTOR — DATE
WORK RECORDED BY — DATE
INSPECTION & ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
STATION NAME: 8-L22 - CORNER OF CENTRAL AND TRAMWAY, STANDARD ACS 3¼" ALUM. CAP STAMPED "8-L22, 1990", SET FLUSH IN TOP OF CURB, NAD 27; N: 1,480114.80 E: 426,169.07; ELEV: 5665.443', NGVD 29
STATION NAME; 5-L23 - 40 PENNY NAIL W SIDE OF POWER POLE WITH PNM PLATE "J17C. 416", E SIDE OF FOUR HILLS RD. SE, 382'± N OF CENTERLINE OF PINON CREEK RD. (MEAS. ALONG POWER LINES), 47.9' NNW OF THE SW CORNER OF BLOCK WALL, 1.3' BELOW GROUND. ELEV. 5613.849', NGVD 29

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL
STATE OF NEW MEXICO — COMMERCIAL CITY OF ALBUQUERQUE — RAYMOND E. OHARA — 9842 — Landscape Architect — 3/18/04

NO.	DATE	REMARKS	BY
1	03/17/04	REPLACED SHEET 8 WITH REVISED SHEET 8A	CVO
		SEE REVISION NOTES FOR MORE INFORMATION	

REVISIONS

		DATE
DESIGN		
DESIGNED BY	CVO	12/31/03
DRAWN BY	CVO	12/31/03
CHECKED BY	RMO	12/31/03

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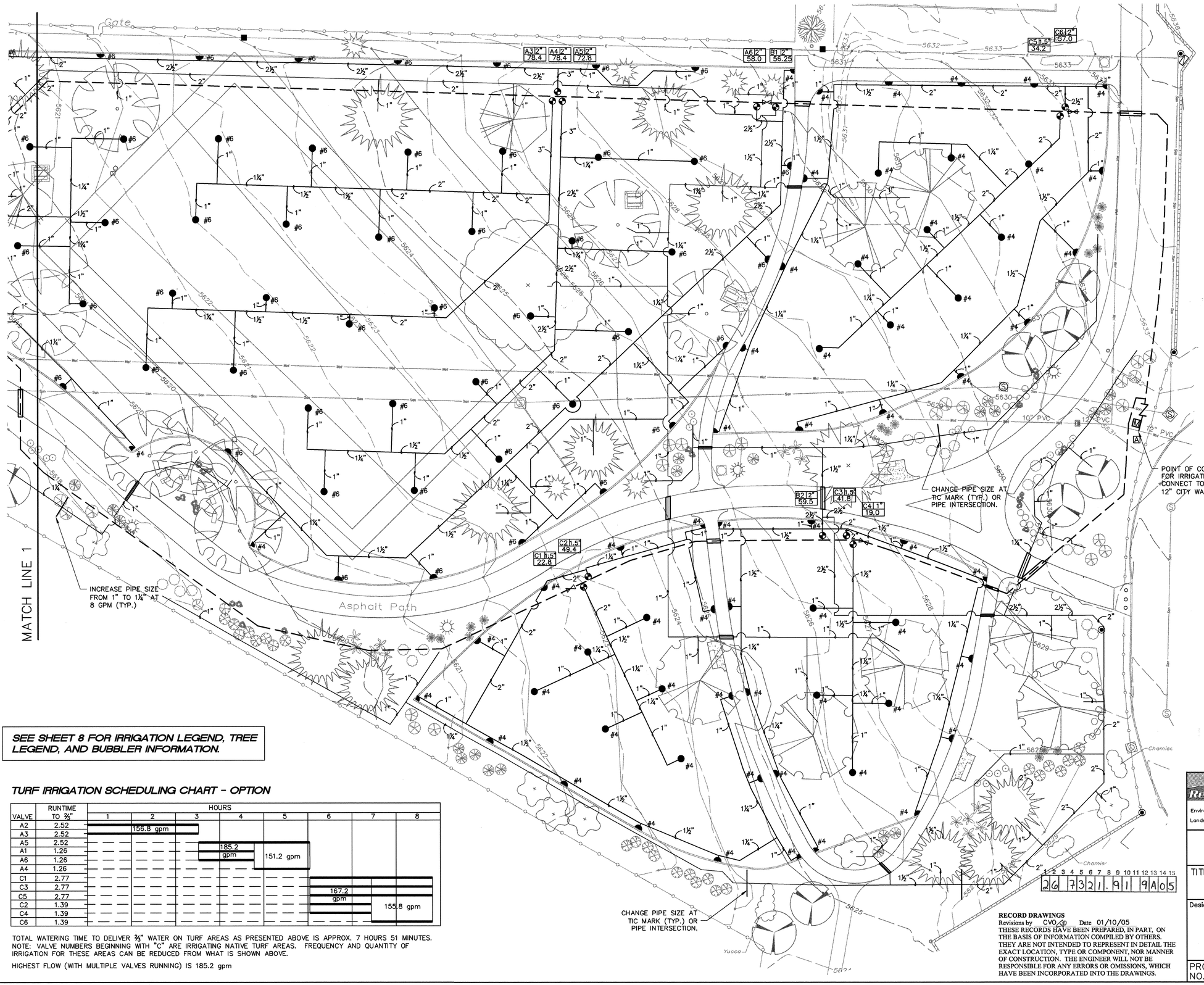
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
PARKS AND RECREATION DIVISION

TITLE: **SINGING ARROW PARK (PHASE III)**
13001 SINGING ARROW AVE. SE, ALBUQUERQUE, NM
IRRIGATION PLAN -WEST (REVISED)

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

PROJECT NO. 7321.91 | MAP NO. L-22 | SHEET 8A OF 11

F:\03-040 Six Parks\Singing Arrow\~RTI Drawings\030408bs.dwg, 03/18/04 01:29:57 PM, CVO



SEE SHEET 8 FOR IRRIGATION LEGEND, TREE LEGEND, AND BUBBLER INFORMATION.

TURF IRRIGATION SCHEDULING CHART - OPTION

VALVE	RUNTIME TO ⅔"	HOURS 1	2	3	4	5	6	7	8
A2	2.52		156.8 gpm						
A3	2.52								
A5	2.52				185.2 gpm				
A1	1.26					151.2 gpm			
A6	1.26								
A4	1.26								
C1	2.77								
C3	2.77						167.2 gpm		
C5	2.77								
C2	1.39							155.8 gpm	
C4	1.39								
C6	1.39								

TOTAL WATERING TIME TO DELIVER ⅔" WATER ON TURF AREAS AS PRESENTED ABOVE IS APPROX. 7 HOURS 51 MINUTES.
NOTE: VALVE NUMBERS BEGINNING WITH "C" ARE IRRIGATING NATIVE TURF AREAS. FREQUENCY AND QUANTITY OF IRRIGATION FOR THESE AREAS CAN BE REDUCED FROM WHAT IS SHOWN ABOVE.

HIGHEST FLOW (WITH MULTIPLE VALVES RUNNING) IS 185.2 gpm

RECORD DRAWINGS
Revisions by CVO Date 01/10/05
THESE RECORDS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OR COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS, WHICH HAVE BEEN INCORPORATED INTO THE DRAWINGS.

SCALE: 1" = 20'
0 20 40 60

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION
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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL
STATE OF NEW MEXICO 01/10/05 CORINNE V. CHAVEZ 10787 PROFESSIONAL LANDSCAPE ARCHITECT

NO.	DATE	REMARKS	BY
1	03/17/04	REPLACED SHEET 9 WITH REVISED SHEET 9A	CVO
		SEE REVISION NOTES, SHEET 8A	

REVISIONS

DESIGN		
DESIGNED BY	CVO	DATE 12/31/03
DRAWN BY	CVO	DATE 12/31/03
CHECKED BY	RMO	DATE 12/31/03

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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
PARKS AND RECREATION DIVISION

TITLE: **SINGING ARROW PARK (PHASE III)**
13001 SINGING ARROW AVE. SE, ALBUQUERQUE, NM
IRRIGATION PLAN - EAST (REVISED)

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

PROJECT NO. 7321.91 | MAP NO. L-22 | SHEET 9A OF 11

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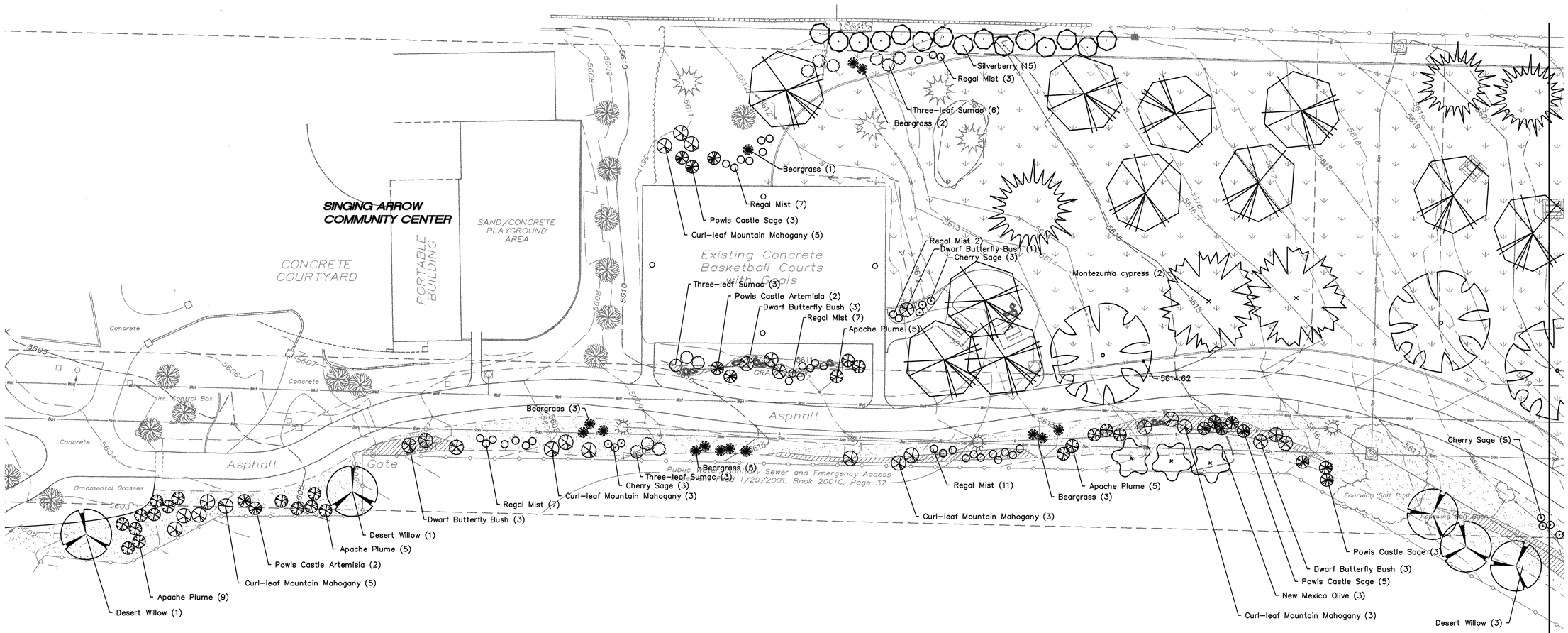

PLANT LEGEND

Quantity	Symbol	Common Name	Scientific Name	Planting Size	Height	Width	Comments
Type		*Broadleaf Deciduous Trees*					
10		Arizona Sycamore	Platanus wrightii	2"–Cal	80.00	40.00	Medium Water Use
12		Chinese Pistache	Pistacia chinensis	2"–Cal	50.00	40.00	Medium Water Use
12		Desert Willow	Chilopsis linearis	24"–Box	25.00	25.00	Multi–trunk, Drought tolerant
9		New Mexico Olive	Forestiera neomexicana	24"–Box	15.00	12.00	Drought Tolerant
8		Burr Oak	Quercus microcarpa	2"–Cal	60.00	50.00	Dry to Moist
Type		*Broadleaf Evergreen Trees*					
1		Cork Oak	Quercus suber	2"–Cal	70.00	70.00	Drought Tolerant
Type		*Conifer Evergreen Trees*					
14		Austrian Pine	Pinus nigra	8' – 10'	65.00	45.00	Dry To Moist
3		Montezuma Cypress	Taxodium mucronatum	8' – 10'	75.00	40.00	Drought Tolerant
Type		*Ornamental Grass*					
58		Regal Mist	Muhlenbergia capillaris	1–Gal	4.00	4.00	Medium Water Use
Type		*Perennials*					
13		Desert Four O'Clock	Mirabilis multiflora	1–Gal	1.50	5.00	Medium Water Use
Type		*Shrubs*					
48		Apache Plume	Fallugia paradoxa	5–Gal	5.00	5.00	Drought Tolerant
29		Beargrass	Nolina microcarpa	1–Gal	3.00	5.00	Drought Tolerant
27		Cherry Sage	Salvia greggii	1–Gal	2.00	3.00	Drought Tolerant
28		Curl–leaf Mountain Mahogany	Cercocarpus ledifolius	5–Gal	10.00	6.00	Drought Tolerant
22		Dwarf Butterfly Bush	Buddleia davidii nanhoensis	5–Gal	5.00	5.00	Medium Water Use
35		Powis Castle Sage	Artemisia X Powis Castle	1–Gal	3.00	5.00	Medium Water Use
15		Silverberry	Eleagnus pungens	5–Gal	10.00	10.00	Drought Tolerant
33		Threeleaf Sumac	Rhus trilobata	5–Gal	6.00	10.00	Drought Tolerant

N

SCALE: 1" = 20'

0 20 40 60

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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
PARKS AND RECREATION DIVISION

TITLE: **SINGING ARROW PARK (PHASE III)**
13001 SINGING ARROW AVE. SE, ALBUQUERQUE, NM
PLANTING PLAN – WEST

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

PROJECT NO. 7321.91 | MAP NO. L-22 | SHEET 10 OF 11

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGNED BY	CVO	12/31/03
DRAWN BY	CVO	12/31/03
CHECKED BY	RMO	12/31/03

ENGINEERS SEAL

STATE OF NEW MEXICO — CORINNE V. O'HARA — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — 10/31/03

AS BUILT INFORMATION

		DATE
CONTRACTOR		
STAKED BY		
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE

MICRO–FILM INFORMATION

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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

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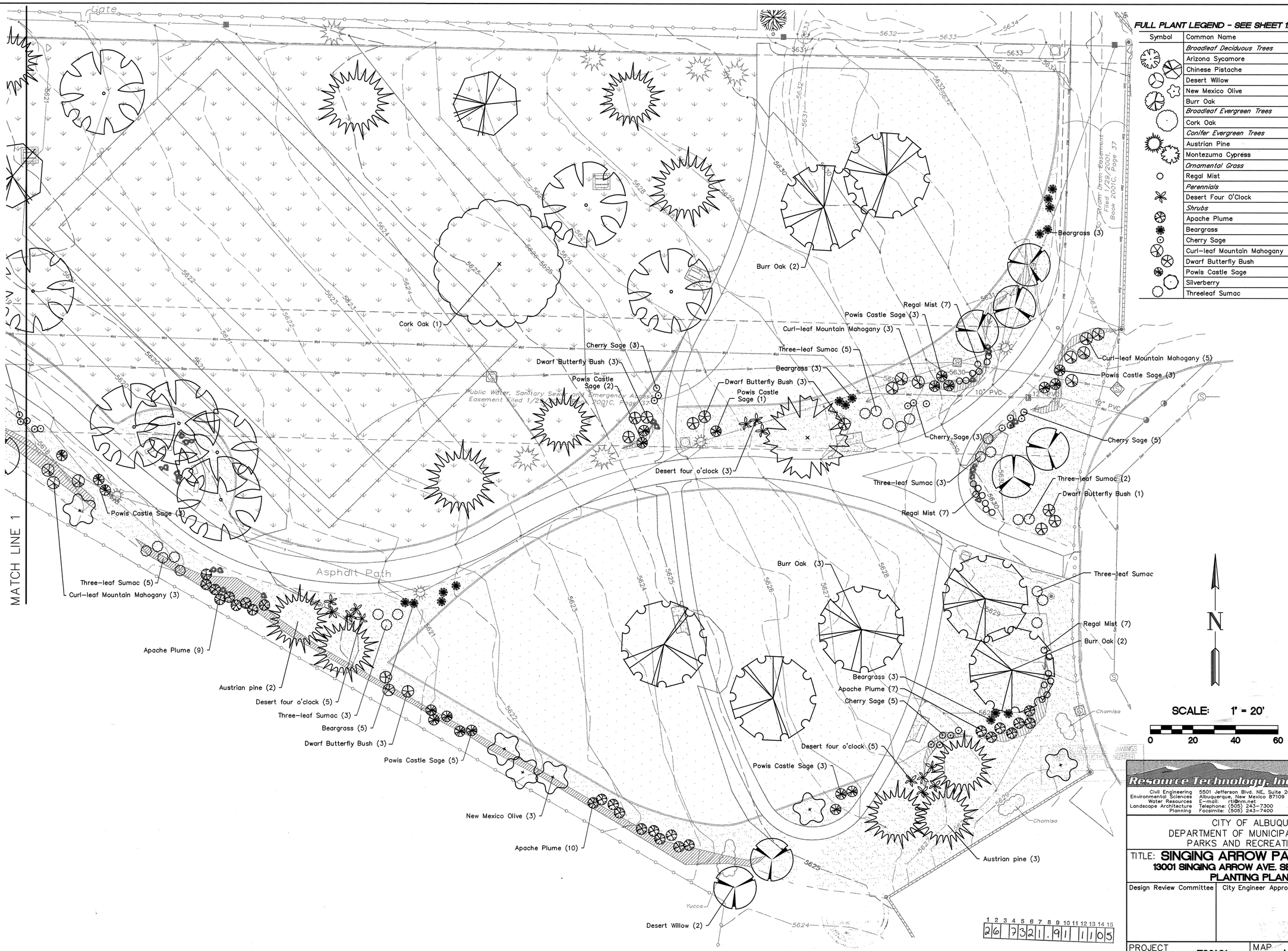

FULL PLANT LEGEND - SEE SHEET 12

Symbol	Common Name
	Broadleaf Deciduous Trees
	Arizona Sycamore
	Chinese Pistache
	Desert Willow
	New Mexico Olive
	Burr Oak
	Broadleaf Evergreen Trees
	Cork Oak
	Conifer Evergreen Trees
	Austrian Pine
	Montezuma Cypress
	Ornamental Grass
	Regal Mist
	Perennials
	Desert Four O'Clock
	Shrubs
	Apache Plume
	Beargrass
	Cherry Sage
	Curl-leaf Mountain Mahogany
	Dwarf Butterfly Bush
	Powis Castle Sage
	Silverberry
	Threeleaf Sumac

AS BUILT INFORMATION

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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

STATE OF NEW MEXICO — COLLIN V. CHAVEZ — 8540 — LICENSED PROFESSIONAL ENGINEER
9/9/04

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY	CVO	DATE	12/31/03
DRAWN BY	CVO	DATE	12/31/03
CHECKED BY	RMO	DATE	12/31/03

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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
PARKS AND RECREATION DIVISION

TITLE: **SINGING ARROW PARK (PHASE III)**
13001 SINGING ARROW AVE. SE, ALBUQUERQUE, NM
PLANTING PLAN - EAST

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

PROJECT NO. 7321.91 | MAP NO. L-22 | SHEET 11 OF 11

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