

VICINITY MAP ZONE ATLAS B-8-Z

NOTICE TO CONTRACTORS

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER TAB SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, UPDATE #7.
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. 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 CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
5. 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 COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
6. CONTRACTOR SHALL COORDINATE WITH THE NEW MEXICO UTILITIES INC. (NMUI) 898-2661 SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY NMUI PERSONNEL ONLY. THE WATER SYSTEMS DIVISION (898-2661) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF THE STANDARD SPECIFICATIONS.
7. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED- ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

8. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING & MAINTAINING ALL CONSTRUCTION SIGNING UNTILL PROJECT HAS BEEN ACCEPTED BY THE COA.

- THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED
- ☐ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
 - ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
 - ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.
 - ☐ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
 - ☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
 - ☐ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
 - ☐ THE REQUESTER OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

LANDSCAPE CONSTRUCTION PLANS
FOR

TUSCARORA PARK AT VENTANA RANCH WEST

CITY DEDICATED PARK

VENTANA RANCH HOA MAINTAINED PARK

WATER METER ADDRESS: 10228 Ventana Sol

CLASS 1 CONSTRUCTION (NOT FOR BID)

CITY OF ALBUQUERQUE, NEW MEXICO
DEPT. OF MUNICIPAL DEVELOPMENT— MANAGING DEPT.
PARKS AND RECREATION DEPT. —OWNER

2.13 ACRES TOTAL/.91 ACRES TURF

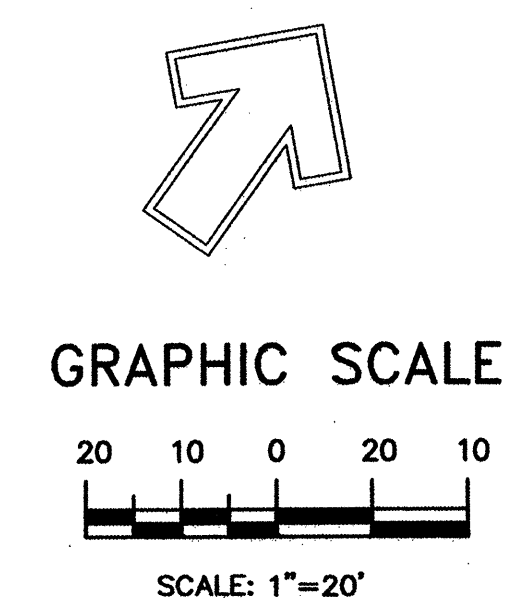
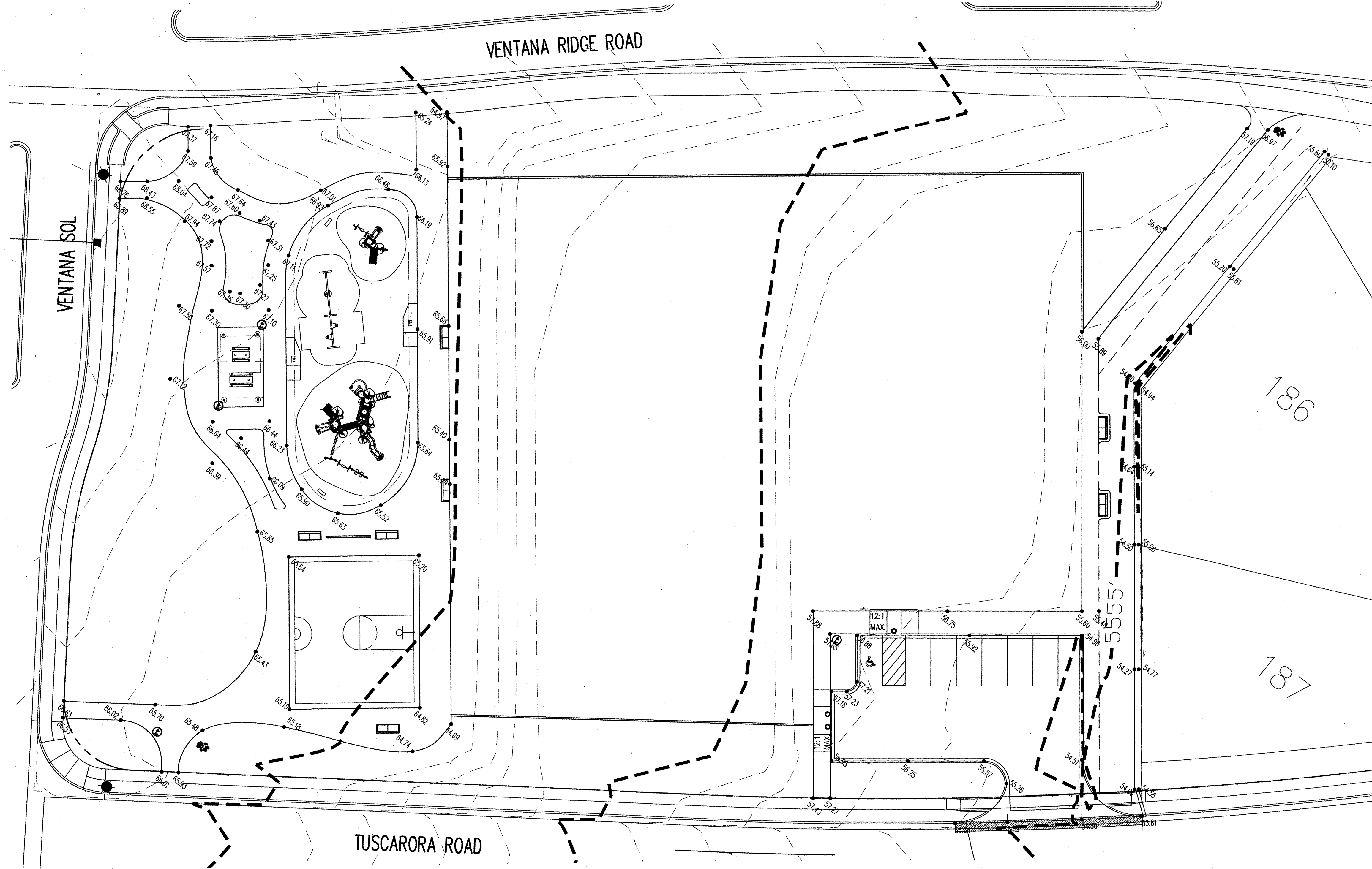
INDEX TO DRAWINGS

SHEET NUMBER	DESCRIPTION
1.	TITLE SHEET
2.	GRADING PLAN
3.	CONSTRUCTION AND LAYOUT PLAN
4.	PARKING LOT DETAILS
5.	PLANTING PLAN
6.	IRRIGATION PLAN
7.	PARK ACCEPTANCE FORMS

THE HILLTOP
LANDSCAPE ARCHITECTS AND CONTRACTORS
7909 Edith Blvd. N.E.
ALBUQUERQUE, NEW MEXICO 87103
(505)898-9690

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
LANDSCAPE ARCHITECTS STAMP & SIGNATURE		APPROVALS		ENGINEER	DATE	*****	
		DRC Chairman		<i>[Signature]</i>	12-27-06	APPROVED FOR CONSTRUCTION	
		Transportation		<i>[Signature]</i>	12-14-06		
		Water/Wastewater		<i>[Signature]</i>	11/29/06		
		Hydrology		<i>[Signature]</i>	12-19-06		
		Parks		<i>[Signature]</i>			
		Constr. Coord.					
		NMUI					
		CITY PROJECT NO.	778882		SHEET		1 of 7

SET #
DATE: 2/26/07
FINAL FOR CONSTRUCTION
TUSCARORA PARK



THE HILLTOP LANDSCAPE ARCHITECTS AND CONTRACTORS 7909 EDITH BLVD. N.E. ALBUQUERQUE, NEW MEXICO 87109 (505)998-9690	
CITY OF ALBUQUERQUE change order 1-8-07 ve options	
TITLE: TUSCARORA PARK AT VENTANA RANCH WEST GRADING PLAN	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
CITY PROJECT NO. 778882	ZONE MAP NO. 8-8-2
SHEET 3 OF 7 REPLACES SHEET 2 OF 7	

AS BUILT INFORMATION		FIELD NOTES		ENGINEER'S SEAL		REVISIONS	
CONTRACTOR	NO.	BY	DATE		CJ	1-3-07	change order- ve options-removed all soft form animals, removed 6 benches & 3 tables, added 1 trash, downsized shade structure and concrete area
STAINED BY	DATE						
ACCEPTANCE BY	DATE						
FIELD VERIFICATION BY	DATE						
DRAWINGS		MICRO-FILM INFORMATION					
CORRECTED BY	DATE						
RECORDED BY	DATE						
NO.							

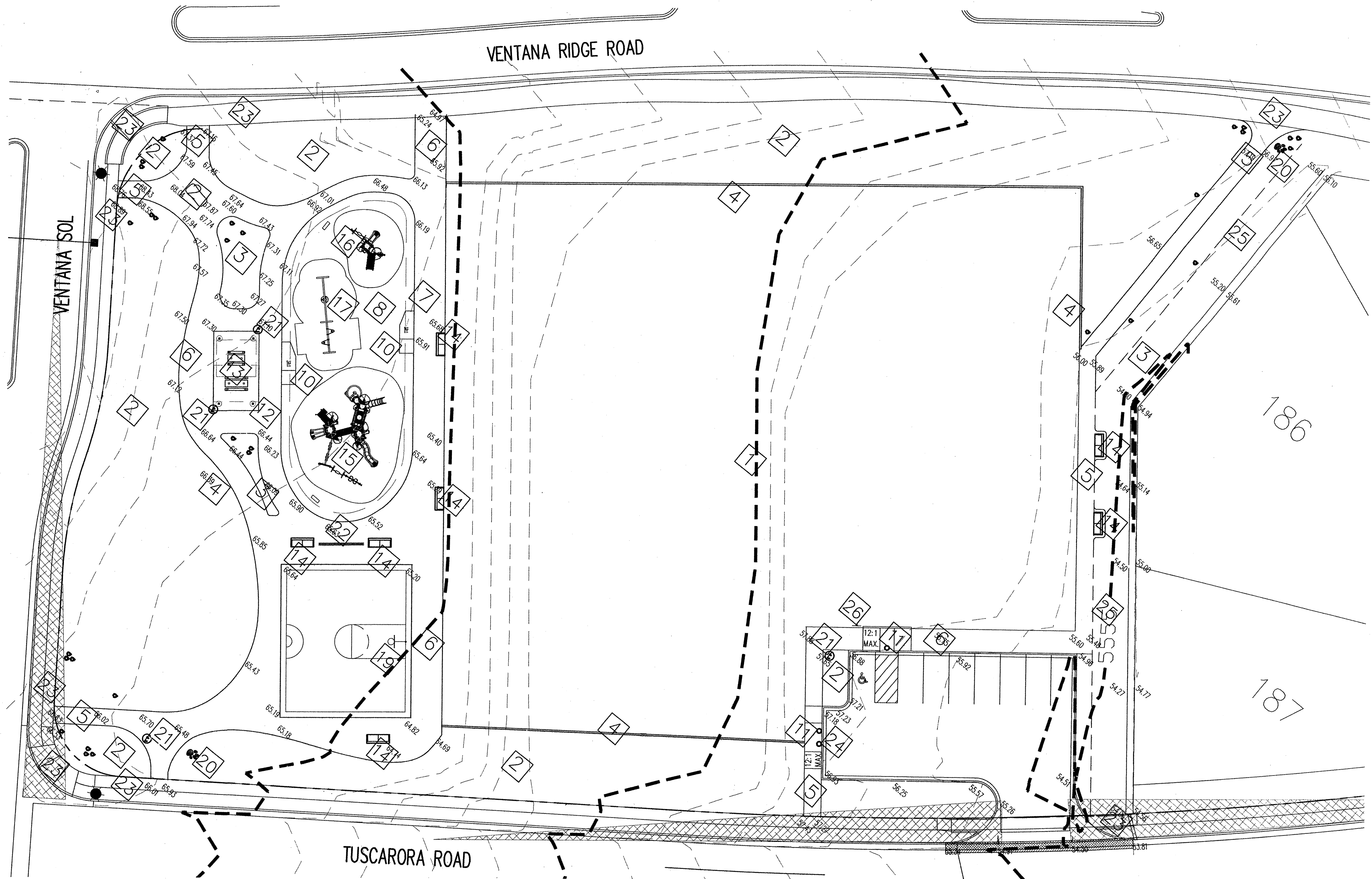
LEGEND

surfaces

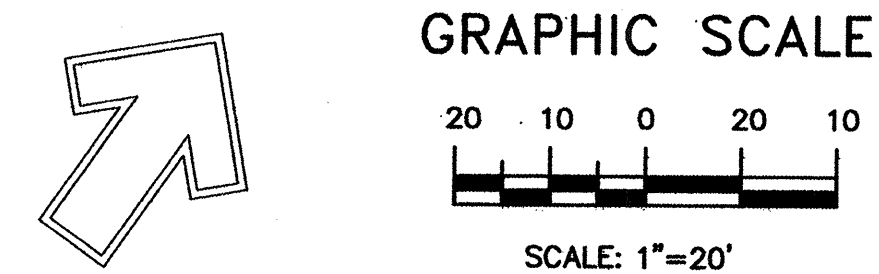
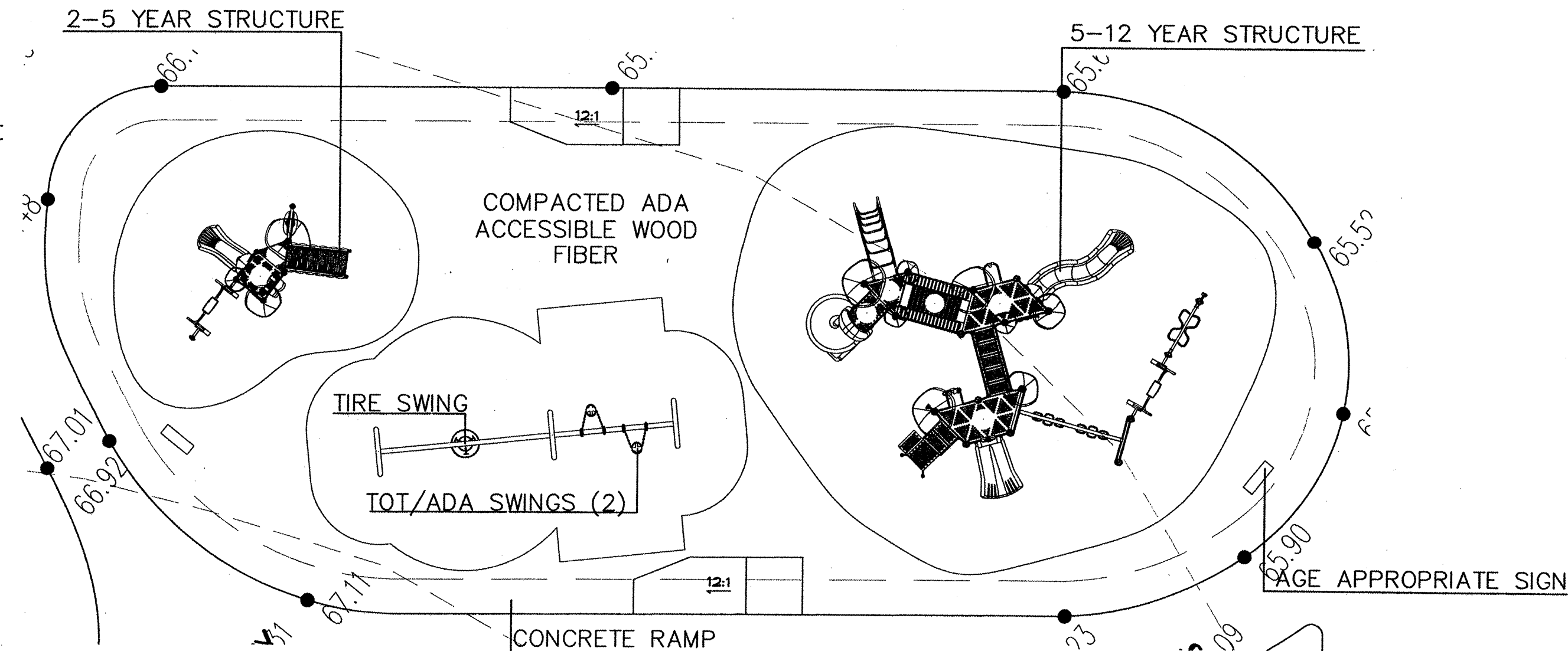
- 1 SOD LAWN (SEE SECTION 1010 OF COA SPEC.) 2.5 ACRES
- 2 SANTA FE BROWN C.FINES 4" DEEP W/ FF
- 3 SANTA ANA TAN C.FINES 4" DEEP W/ FF
- 4 6" x 6" CONCRETE MOWCURB (SEE CITY STANDARD DWG 2726) 3000PSI
- 5 6' WIDE X 4" CONCRETE (COA SPEC. # 2430) FLUSH CONNECTION TO EXISTING TRAIL
- 6 8' WIDE X 4" CONCRETE (COA SPEC. # 2720) WITH 2' RADIUS
- 7 18" TURNDOWN (COA DETAIL 2728) 18" MINIMUM - COMPENSATE FOR GRADES
- 8 ENGINEERED WOODFIBER 12" DEEP (AFTER COMPACTION) 100% ADA ACCESSIBLE (4" DEPTH UNDER ANIMAL SCULPTURES)
- 9 ~~STAMPED AND STAINED NATIVE ANIMAL PAW PRINTS PATTERN IN CONCRETE (1"x1" MAX)~~
- 10 CONCRETE RAMP INTO BARK PLAY AREA. 5'X5' LANDING, 12:1 DOWN

equipment

- 11 REMOVABLE BOLLARD- WITH MIN. 3' ACCESS AROUND BOLLARD. (SEE COA SPEC # 2250) (3) MINIMUM 3' CLEARANCE
- 12 ICON BARREL ROOF SHADE STRUCTURE (20X39") SURREY BEIGE POWDER COATED FRAME AND TUDOR BROWN ROOF
- 13 ~~TABLE (1 HC Accessible) MODEL NO. APT/CW-6PC (2) APT/CW-8PC (1) SURFACE MOUNT :R.J. THOMAS MFG. CO. CEDAR COLORED REC.PLASTIC AND BROWN POWDER COAT~~
- 14 ~~HC ACCESSIBLE BENCH (1) WITH ARM RESTS ON SIDES AND MIDDLE- MODEL NO. PWRB/CW-6PC SURFACE MOUNT :R.J. THOMAS MFG. CO. CEDAR COLORED REC. PLASTIC AND BROWN POWDER COAT~~
- 15 PLAY STRUCTURE BY PLAYWORLD SYSTEMS MODEL NO. 500-0506 5-12 YEARS (SEE DETAIL SHEET 5) SAND/CHESTNUT/FOREST GREEN/TANGERINE
- 16 PLAY STRUCTURE BY PLAYWORLD SYSTEMS MODEL NO. S00607A 2-5 YEARS (SEE DETAIL SHEET 5) BEIGE/CHESTNUT/FOREST GREEN/TANGERINE
- 17 SWING COMBO (TIRE/ARCH W/TOTS)PLAYWORLD MODEL NO. 500/500
- 18 ~~SOFTFORM ANIMALS- BY ROCKBLOCKS AND BOULDERS- (MODEL NO. FISH, DOG AND FROG) (NO FALL ZONE) GREY GRANITE COLOR~~
- 19 BASKETBALL EQUIPMENT (1) PW ATHLETIC MFG. CO (MODEL NO. 1516-22-45) 4' OFFSET POWDER COATED HUNTER GREEN STEEL POST , ALUM. BACKBOARD, DOUBLE RIM GOAL WITH NYLON NET
- 20 MUTTMITT (2) OUTDOOR PET POLLUTION GLOVE DISPENSER (MODEL NO. JJB009) JJB SOLUTIONS



- 21 TRASH RECEPTACLE ~~McCLINTOCK R30 MODEL~~
- 22 BIKE RACK (1) MADRAX-CYC BICRAC 4 BIKE CAPACITY. SURFACE MOUNTED (MODEL NO. CYB-4-SF-P) POWDER COATED FOREST GREEN
- 23 EXISTING SIDEWALK/TRAIL/HC RAMPS PER INFRASTRUCTURE OF SUBDIVISION
- 24 KEYWAY 4" SOLID WHITE STRIPING 45° AND 4' OC
- 25 FUTURE PUE TO BE CONVEYED, WITH COBBLE DRAINAGE RETENTION
- 26 signage
HANDICAP PARKING SIGN (1)

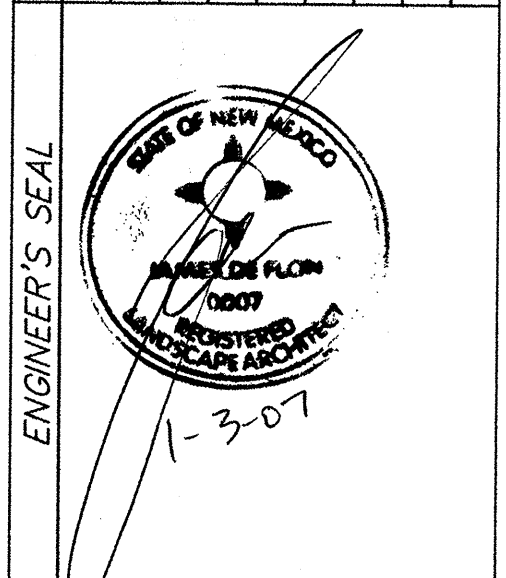


THE HILLTOP
LANDSCAPE ARCHITECTS AND CONTRACTORS
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ALBUQUERQUE, NEW MEXICO 87109
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CITY OF ALBUQUERQUE change order 1-3-07 ve options	
TITLE: TUSCARORA PARK AT VENTANA RANCH WEST CONSTRUCTION AND LAYOUT PLAN/DETAILS	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
LAST DESIGN UPDATE	MO./DAY/YR.
CITY PROJECT NO.	ZONE MAP NO.
778882	B-8-2
SHEET	OF
REPLACES SHEET 3 OF 7	

BENCH MARKS		AS BUILT INFORMATION	
STATION: 2+2-P10" IS LOCATED 4.9 MI. SW OF DOWNTOWN ALBUQUERQUE TO REACH STATION FROM INT. OF COORS AND DENNIS CHAVEZ BLVD. (FORMERLY RIO BRAVO), GO N. ON COORS 0.1 MI. TO FLORA VISTA AND GO WEST ON FLORA VISTA 0.5 MI. TO CONDERSHIRE, THEN GO S. ON CONDERSHIRE 0.4 MI. TO A POINT APPROX. 50 FT. W. OF THE STATION. STATION MARK IS AN ACS 3 1/4" ALUM CAP STAMPED: 2-P10, 1987" RIVETED TO A PIPE PROTECTED 0.25 FT ABOVE THE GROUND. X=35841.13, Y=146434.24 (NAD 27) Z=4991 (NGVD 29)		CONTRACTOR	
		WORK STATED BY	DATE
		ACCEPTANCE BY	DATE
		FIELD ACTION BY	DATE
		DRAWINGS CORRECTED BY	DATE
		MICRO-FILM INFORMATION	
		RECORDED BY	DATE
		NO.	

ENGINEER'S SEAL	
CJ	BY
CJ	REVISIONS
CJ	DESIGN
CJ	DATE
CJ	DATE
CJ	DATE



change order- ve options-removed all soft form animals, removed 6 benches & 3 tables, added 1 trash, concrete area	1-3-07
PER DRC COMMENTS	11/7/08
REMARKS	NO. DATE
DESIGNED BY	CJ
DRAWN BY	CJ
CHECKED BY	JD
DATE	XXXX
DATE	XXXX
DATE	XXXX

21+16.68, 25.82 L
BEGIN CURB RETURN
LOWLINE DATA (A)

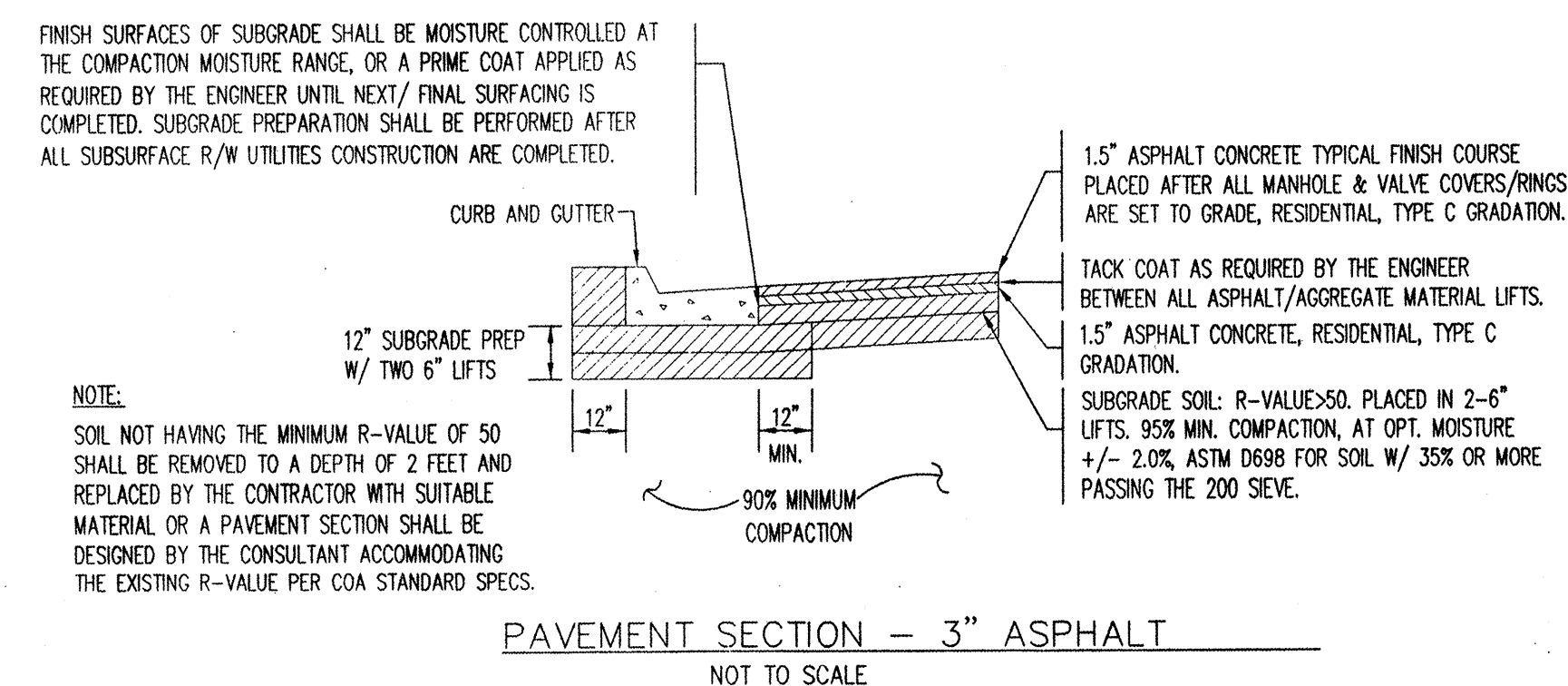
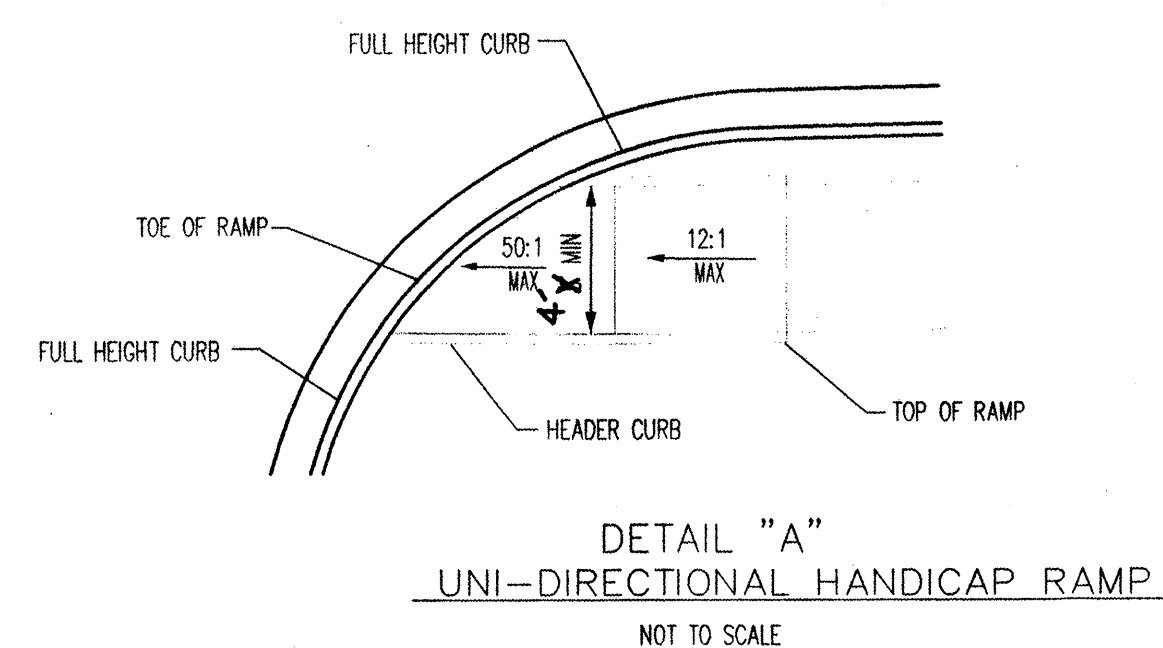
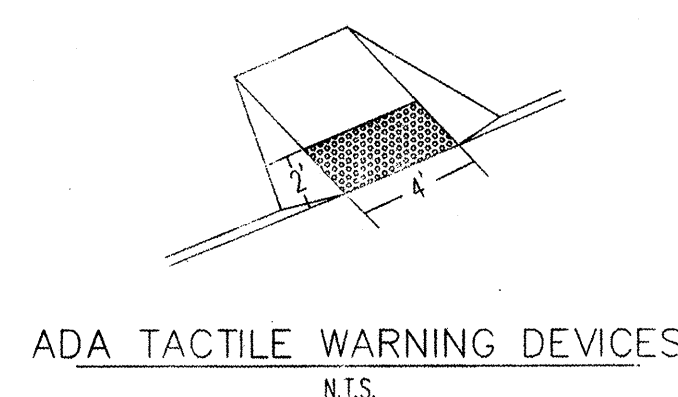
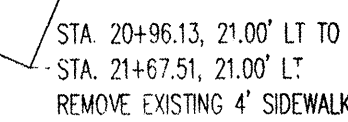
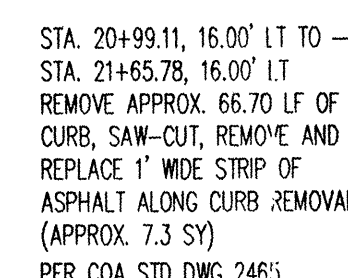
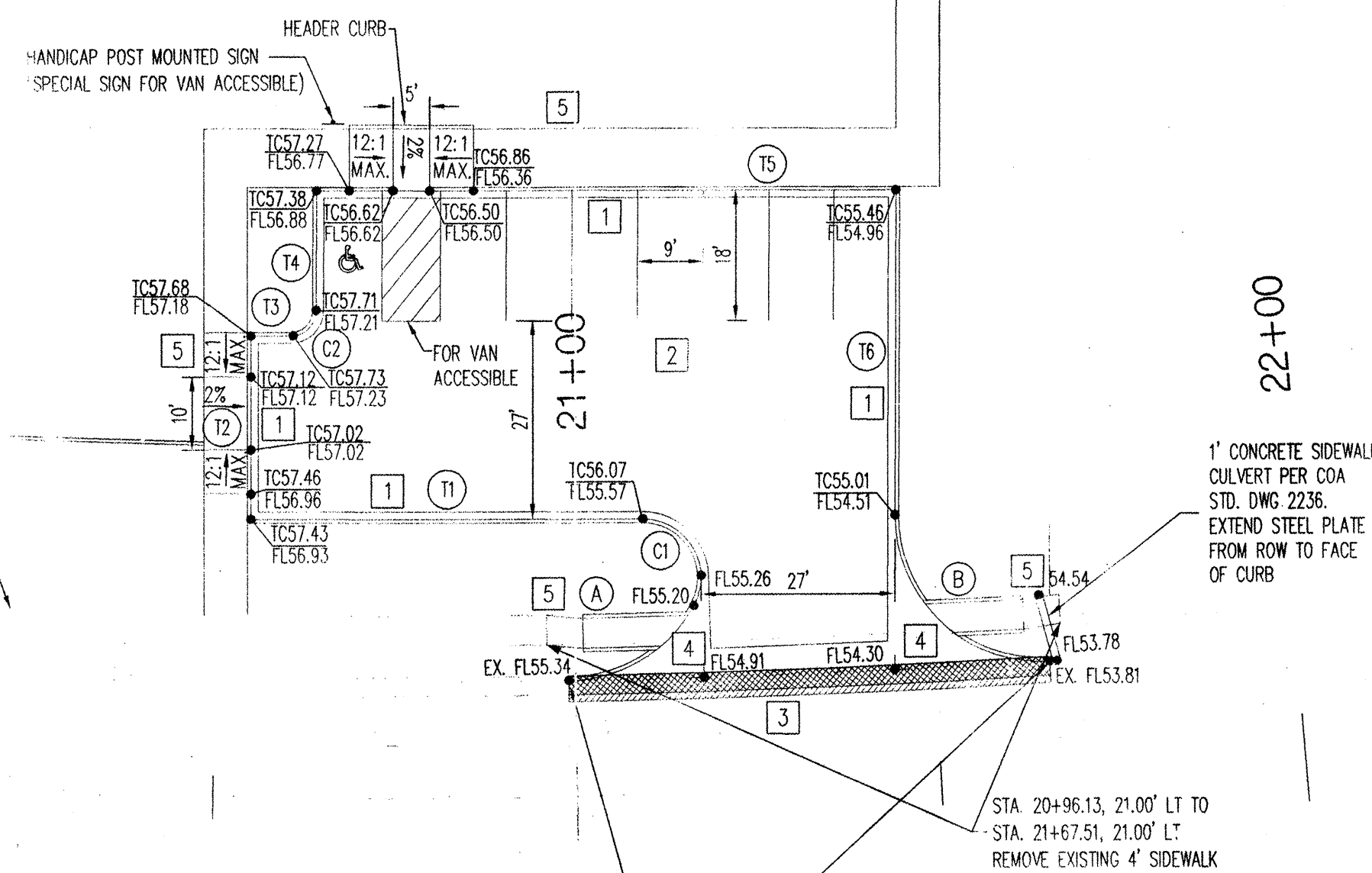
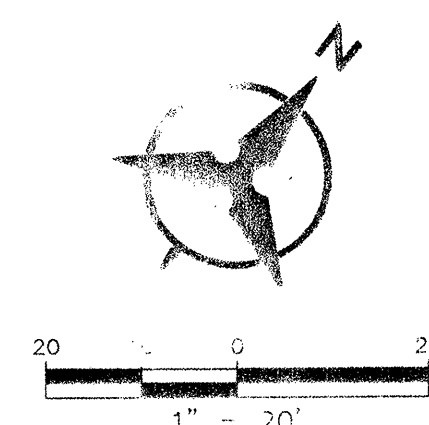
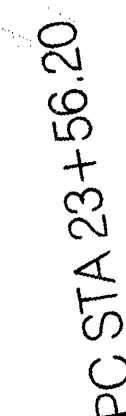
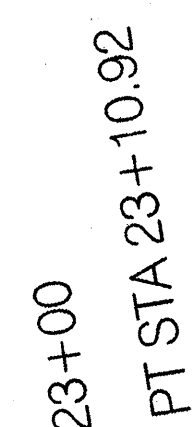
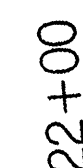
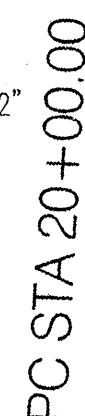
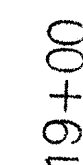
PC	55.20	
1	55.10	$\Delta = 59.43$
2	55.09	$R = 20.00$
3	55.17	$L = 20.85$
PT	55.34	$I = 20.00$


20+99.11, 16.00' LT.
END CURB RETURN

21+65.78, 16.00' LT
BEGIN CURB RETURN
FLOWLINE DATA (B)

PC	54.16	
1	54.23	$\Delta = 93^{\circ}34'32''$
2	54.32	$R = 20.00'$
3	54.41	$L = 32.66'$
PT	54.51	$T = 21.29'$

21+45.32, 37.11' LT
END CURB RETURN



ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
		FIELD NOTES		N.C.S. BRASS APR. 15 1841 1/2 INCH 1950° Geographic Position (NAD 1927) N.M. State Plane Coordinates (Cent al Zone) X= 353,409.02 Y= 1,523,440.96 Grid to Grid Factor = 0.9956044 Δα = -00°16'58"		DATE	
		NO.	BY			RECORDED BY	DATE
No.	Date	REMARKS	By				
DESIGN							
REVISIONS							
DESIGNED BY SJS							
DATE: 10/12/06							
DRAWN BY: BUG							
DATE: 10/12/06							
CHECKED BY: SJS							
DATE: 10/12/06							

KEYED NOTES

- 1 BUILD MEDIAN TYPE CURB AND GUTTER PER COA STD. DWG. 2415B.
- 2 BUILD 3" AC. PAVEMENT SECTION PER SECTION A, THIS SHEET.
- 3 INSTALL 6" CONCRETE VALLEY GUTTER PER COA STD. DWG. 2420.
- 4 INSTALL SPECIAL HANDICAP RAMP PER DETAIL 'A', THIS SHEET.
- 5 BUILD SIDEWALK AS NOTED ON PLAN PER COA STD. DWG. 2430.

Bohannon & Huston						Date	Designed By:	BUG
Court yard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335						No.	Drawn By:	Checked By:
ENGINEERING * SPATIAL DATA * ADVANCED TECHNOLOGIES								
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT								
VENTANA RANCH WEST PARK #2								
Design Review Committee		City Engineer Approval		Last Design Update	Mo./Day/Yr.		Mo./Day/Yr.	
City Project No. 72882		Zone Map No. B-8		Sheet 4		Of 7		

IRRIGATION NOTES

WATER PRESSURE:
THE WATER PRESSURE AT THIS SITE HAS BEEN REPORTED TO BE 60-65 PSI BY NEW MEXICO WATER UTILITIES ON SEPTEMBER 19, 2006. THE CONTRACTOR SHALL VERIFY THE DESIGN CRITERIA OF THIS SYSTEM BY COMPLETING A FLOW / PRESSURE TEST PRIOR TO THE INSTALLATION OF ANY IRRIGATION COMPONENTS. THE CONTRACTOR SHALL INSTALL A FLOW METER AND WATER PRESSURE GAUGE ON THE DOWNSTREAM SIDE OF THE WATER METER. THE CONTRACTOR SHALL MEASURE THE DYNAMIC WATER PRESSURE AT THE FLOW NOTED BELOW, AND REPORT HIS FINDINGS IN WRITING TO THE IRRIGATION CONSULTANT. THE CONTRACTOR SHALL RECEIVE A NOTICE TO PROCEED, IN WRITING FROM THE IRRIGATION CONSULTANT UPON ACCEPTABLE CONDITIONS. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DESIGN CHANGES AND/OR ADDITIONAL WORK IF HE DOES NOT POSSESS A NOTICE TO PROCEED FROM THE DESIGN FLOW / PRESSURE CRITERIA: 60 PSI (DYNAMIC) @ 65 GPM

BOOSTER PUMP:
THIS IRRIGATION SYSTEM WILL REQUIRE AN IRRIGATION BOOSTER PUMP IF THE EXPECTED CITY WATER PRESSURE OF 60 PSI @ 65 GPM IS NOT AVAILABLE AT THE SITE.

PROXIMITY TO IRRIGATION EQUIPMENT:
THE CONTRACTOR SHALL REARRANGE OR MOVE THE LOCATIONS OF ANY PLANTINGS THAT MAY IMPEDE THE PROPER SERVICING OF IRRIGATION RELATED COMPONENTS. THE BOOSTER PUMP, BACKFLOW PREVENTER AND ALL VALVES SHALL HAVE A 36" MINIMUM CLEARANCE ON ALL SIDES.

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 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 IN DIGITAL AUTOCAD FORMAT. 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.

CERTIFIED LANDSCAPE IRRIGATION AUDIT:
PRIOR TO THE INSTALLATION OF SOD, SEED, TREES OR OTHER PLANT MATERIAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A CERTIFIED LANDSCAPE WATER AUDIT TO DETERMINE THE DISTRIBUTION UNIFORMITY FOR ALL TURFGRASS AREAS. NO PLANT MATERIALS SHALL BE INSTALLED IN TURFGRASS AREAS UNTIL DISTRIBUTION UNIFORMITY RESULTS HAVE BEEN ACCEPTED BY THE CITY.
AUDIT PREPARATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT THE SPRINKLER IRRIGATION SYSTEM IS IN FULL WORKING ORDER PRIOR TO AUDIT. THERE SHALL BE NO CLOGGED OR MISSING NOZZLES. NON-ROTATING SPRINKLERS MUST BE REPLACED OR REPAIRED. ALL DEBRIS OR DIRT PILES MUST BE REMOVED OR LEVELED AND EACH SPRINKLER MUST BE PROPERLY SET AND LEVELED. THE CONTRACTOR SHALL ALSO SET ALL PRESSURE REGULATION DEVICES OR VALVE FLOW CONTROLS (IF APPLICABLE) TO THE DISCHARGE PRESSURE INDICATED ON PLAN.

SPECIFICATIONS AND DETAIL DRAWINGS:
THE CONTRACTOR SHALL REFER TO THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS AND DETAIL DRAWINGS FOR IRRIGATION CONSTRUCTION. IN THE EVENT OF A CONFLICT BETWEEN SPECIFICATIONS AND IRRIGATION DESIGN, THE CONTRACTOR SHALL NOTIFICATION OF THE IRRIGATION CONSULTANT IN WRITING. THE CONTRACTOR SHALL NOT PROCEED WITH INSTALLATION OF CONFLICTING IRRIGATION COMPONENTS UNTIL HE RECEIVES CLARIFICATION IN WRITING FROM THE CONSULTANT.

TREE / SHRUB LOCATIONS:
THE PIPE ROUTING SHOWN ON THESE PLANS IS SCHEMATIC. THE CONTRACTOR SHALL INSTALL ALL PIPING OUTSIDE OF THE ROOT ZONE OF TREES OR SHRUBS. THE SPRINKLER LOCATIONS SHOWN ON THESE PLANS ARE FIXED AND MUST BE FIELD LOCATED AS CLOSELY AS POSSIBLE TO LOCATIONS SHOWN ON PLANS TO MEET THE INTENDED DISTRIBUTION UNIFORMITY. THE CONTRACTOR SHALL FIELD ADJUST ANY TREE LOCATIONS THAT ARE SHOWN TO BE CLOSER THAN 12" FROM ANY SPRINKLER HEAD. IF SUBSTANTIAL TREE REARRANGEMENT IS REQUIRED, THE CONTRACTOR SHALL HAVE HIS PROPOSED LOCATION APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.

SPRINKLER NOZZLES:
THE CONTRACTOR SHALL ADJUST THE THROWING RADIUS OF ALL PERTINENT SPRINKLER NOZZLES SO AS TO MINIMIZE THE OVERSPRAY ONTO HARDSCAPE OR OTHER UNINTENDED AREAS. THE CONTRACTOR SHALL ALSO INCLUDE IN HIS BID OR PRICING AN ALLOWANCE FOR ANY SPRINKLER NOZZLE CHANGES THAT ARE DETERMINED NECESSARY BY THE LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT TO CORRECT ISSUES OF OVERSPRAY, UNDERSPRAY OR DISTRIBUTION UNIFORMITY.

MAINLINE FITTINGS:
THE CONTRACTOR SHALL USE TWO (2) 45 DEGREE ELBOWS FOR EACH 90 DEGREE MAINLINE BEND AS PER CITY OF ALBUQUERQUE'S REQUEST.

IRRIGATION SATELLITE:
FOR SCORPIO SATELLITES, THE CONTRACTOR SHALL HAVE A RADIO SIGNAL STRENGTH SURVEY PERFORMED TO VERIFY PROPER RADIO COMMUNICATION FROM IRRINET CONTROLLER LOCATION TO PROPOSED SCORPIO CONTROLLER LOCATION. PRIOR TO THE INSTALLATION OF THE SCORPIO CONTROLLER, THE CONTRACTOR SHALL CONTACT: WATER RESOURCES, INC. (MARK MATHEIS) (505) 888-1389 FOR THIS SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE RADIO SIGNAL STRENGTH SURVEY.

IRRIGATION LEGEND

- HUNTER #10-36S-3.0 FULL CIRCLE ROTARY SPRINKLER WITH STAINLESS STEEL RISER, CHECK VALVE AND #3.0 NOZZLE (36" RADIUS, 2.4 GPM, .205"/hr @ 40 PSI)
- HUNTER #10-ADS-3.5 PART CIRCLE ROTARY SPRINKLER WITH STAINLESS STEEL RISER, CHECK VALVE AND #3.5 NOZZLE (36" RADIUS, 3.0 GPM, .46"/hr @ 40 PSI)
- HUNTER #10-ADS-3.0 PART CIRCLE ROTARY SPRINKLER WITH STAINLESS STEEL RISER, CHECK VALVE AND #3.0 NOZZLE (36" RADIUS, 2.4 GPM, .41"/hr @ 40 PSI)
- HUNTER #10-ADS-1.5 PART CIRCLE ROTARY SPRINKLER WITH STAINLESS STEEL RISER, CHECK VALVE AND #1.5 NOZZLE (34" RADIUS, 1.6 GPM, .31"/hr @ 40 PSI)
- HUNTER #PCB-25 TRICKLE PATTERN, PRESSURE COMPENSATING FLOOD BUBBLER (.25 GPM @ 30 PSI)
- RAINBIRD #100-PEB 1" PLASTIC ELECTRIC VALVE WITH FLOW CONTROL (1-30 GPM / 5.8 PSI LOSS @ 30 GPM)
- RAINBIRD #150-PEB 1 1/2" PLASTIC ELECTRIC VALVE WITH FLOW CONTROL (31-75 GPM / 4.2 PSI LOSS @ 75 GPM)
- BOOSTER PUMP: SEE IRRIGATION NOTE
- FEBCO #765-2 2" PRESSURE VACUUM BREAKER BACKFLOW PREVENTER ENCLOSED IN HOTBOX #PVB2 INSULATED BACKFLOW ENCLOSURE (CONTRACTOR TO PROVIDE POSITIVE HEAT SOURCE TO BACKFLOW PREVENTER)
- CITY WATER METER - BADGER RECORDALL #200 SERIES 2" TURBINE OR TURBO STYLE WATER METER - WATER METER PERFORMANCE MUST MEET 65 GPM AT 60 PSI (CONTRACTOR TO ASSUME ALL COSTS ASSOCIATED WITH INSTALLING THE WATER METER INCLUDING UTILITY EXPANSION CHARGES)
- MASTER METER #WT SERIES EPOXY COATED 2" FLOW METER WITH ELECTRICAL OUTPUT REGISTER - 1 PULSE = 1 GALLON
- CRISPEN #UL10.1 1" UNIVERSAL AIR RELEASE VALVE
- MOTOROLA IRRIGATION CONTROLLER: IRRINET-16 STATION SATELLITE WITH COA RADIO COMMUNICATION AND STATION SWITCHES, INSTALLED IN INTERLOCKED ENCLOSURE (CONTRACTOR TO PROVIDE ELECTRICAL POWER TO CONTROLLER)
- MAINLINE PIPE - 3" SCH-40 PVC SOLVENT WELD
- LATERAL PIPE - SCH-40 PVC SOLVENT WELD (PIPE SIZE INDICATED ON PLAN)
- SLEEVE PIPE - SCH-40 PVC SOLVENT WELD (TWO SIZES LARGER THAN PIPE TO BE SLEEVED)

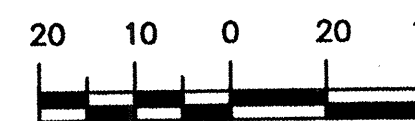
IRRIGATION SCHEDULE

VALVE ID	PROGRAM	SPK TYPE	FLOW	PRECIP RATE	RUNTIME
01	A	TURF - FC	36 GPM	.21"/hr	190 MIN HIGH FLOW = 65 GPM
02		TURF - FC	29 GPM	.21"/hr	
03	B	TURF - PC	29 GPM	.41"/hr	95 MIN HIGH FLOW = 62 GPM
04		TURF - PC	33 GPM	.41"/hr	
05	C	BUBBLER	40 GPM	.25 / .75 GPM	12 MIN
06	D	BUBBLER	44 GPM	.25 / .75 GPM	12 MIN
07	N/A	N/A	N/A	N/A	N/A
08	N/A	N/A	N/A	N/A	N/A
MV	MV	MASTER VALVE	65 GPM	N/A	N/A
STATION RUNTIMES ARE CALCULATED TO APPLY .66" OF WATER ON ALL TURF AREAS. 3 GALLONS OF WATER PER SPRINKLER AND 6 GALLONS OF WATER PER TREE PER IRRIGATION CYCLE.					TOTAL RUNTIME: 5.1 hrs

IRRIGATION FRICTION LOSSES

IRRIGATION COMPONENT @ 75 GPM	PRESSURE LOSS
2" WATER METER (BADGER RECORDALL 200)	1.5 PSI
2" PVB (FEBCO 765 SERIES)	4.5 PSI
2" FLOW METER (MASTER METER)	1.4 PSI
2" MASTER VALVE	2.9 PSI
2" ZONE VALVE	2.9 PSI
LATERAL PIPE (ESTIMATE)	4.0 PSI
3" MAINLINE PIPE (211' / 41 PSI PER 100')	.865 PSI
ELEVATION (POSITIVE GAIN IN PRESSURE)	>0
THIS IRRIGATION SYSTEM IS DESIGN TO OPERATE WITH A MINIMUM CITY MAINLINE WATER PRESSURE OF 60 PSI @ 65 GPM. THE CONTRACTOR SHALL THOROUGHLY TEST THE CONDITIONS OF THE WATER AVAILABILITY PRIOR TO THE INSTALLATION OF THE IRRIGATION SYSTEM	
TOTAL PRESSURE LOSSES: -18.07	
EXPECTED WATER PRESSURE: +60.00	
SPRINKLER OPERATING PSI: 41.93	

GRAPHIC SCALE



THE HILLTOP
LANDSCAPE ARCHITECTS AND CONTRACTORS
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CITY OF ALBUQUERQUE

TITLE: TUSCARORA PARK AT VENTANA RANCH WEST
IRRIGATION PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
DATE: 08/01/2007	DATE: 08/01/2007	DATE: 08/01/2007		

CITY PROJECT NO. 778882 ZONE MAP NO. 8-8-2 SHEET 6 OF 7

