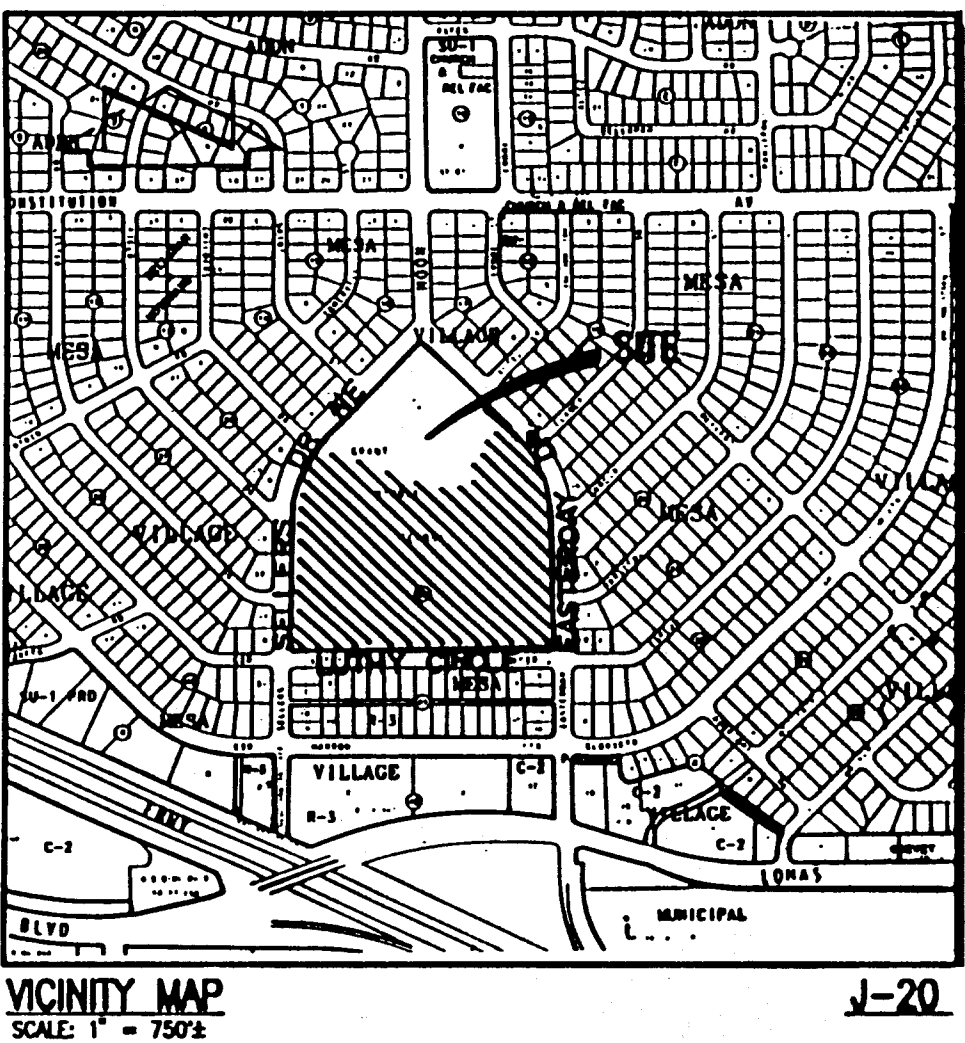


CONSTRUCTION DOCUMENTS

GRANT MIDDLE SCHOOL
NEW PARK DEVELOPMENT- PHASE I
CITY PROJECT NO. 5396

TITLE	SHEET NO.
COVER SHEET	C-1 OF 10
LAYOUT / DIMENSION PLAN	2 OF 10
GRADING PLAN	3 OF 10
DRAINAGE PLAN	4 OF 10
SITE /DRAINAGE SECTIONS AND DETAILS	5 OF 10
LANDSCAPE / PLANTING PLAN	6 OF 10
ENLARGED LANDSCAPE / PLANTING PLAN @ PARK / PLAY AREA	7 OF 10
IRRIGATION PLAN	8 OF 10
ENLARGED IRRIGATION PLAN @ PARK / PLAY AREA	9 OF 10
SITE / LANDSCAPE DETAILS	10 OF 10



THE FOLLOWING 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 city 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 or ramp, it shall be constructed prior to acceptance of the curb and gutter.
- ☒ All storm drainage facilities shall be completed prior to final acceptance.

- GENERAL NOTES:
- ALL WORK TO BE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS, 1986 EDITION (AS UPDATED WITH REVISION #6), OR PER ATTACHED SPECIFICATIONS.
 - CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT-OFF PLAN, NOT LESS THAN FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY WATER SYSTEM DIVISION PERSONNEL SHALL OPERATE EXISTING VALVES, REFER TO SECTION 18 OF THE SPECIFICATIONS.
 - TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 280-1990, FOR LOCATION OF EXISTING UTILITIES.
 - UTILITY LINES AND COVERS ARE SHOWN ON THESE DRAWINGS IN AN APPROXIMATE MANNER ONLY. LINES MAY EXIST WHERE NONE ARE SHOWN. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
 - SHOULD A CONFLICT EXIST BETWEEN THE PLANS AND THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE LANDSCAPE ARCHITECT IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH THE MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
 - ALL EXISTING IMPROVEMENTS ARE TO REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED. CONTRACTOR SHALL REPAIR ANY CONTRACTOR CAUSED DAMAGE TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE. ALL REPAIRS WITHIN THE CITY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CHECK ALL DIMENSIONS, BOTH HORIZONTAL AND VERTICAL, AND SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL DIMENSIONS OF ALL OBSTRUCTIONS.
 - THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
 - ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
 - CONTRACTOR SHALL NOTIFY CITY SURVEYING NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT CITY SURVEYING MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF CITY SURVEYING AND SHALL NOTIFY CITY SURVEYING AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY CITY SURVEYING. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION 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 STANDARD SPECIFICATIONS.
 - ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
 - THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION.

AS-BUILT DWGS. 8-18-97

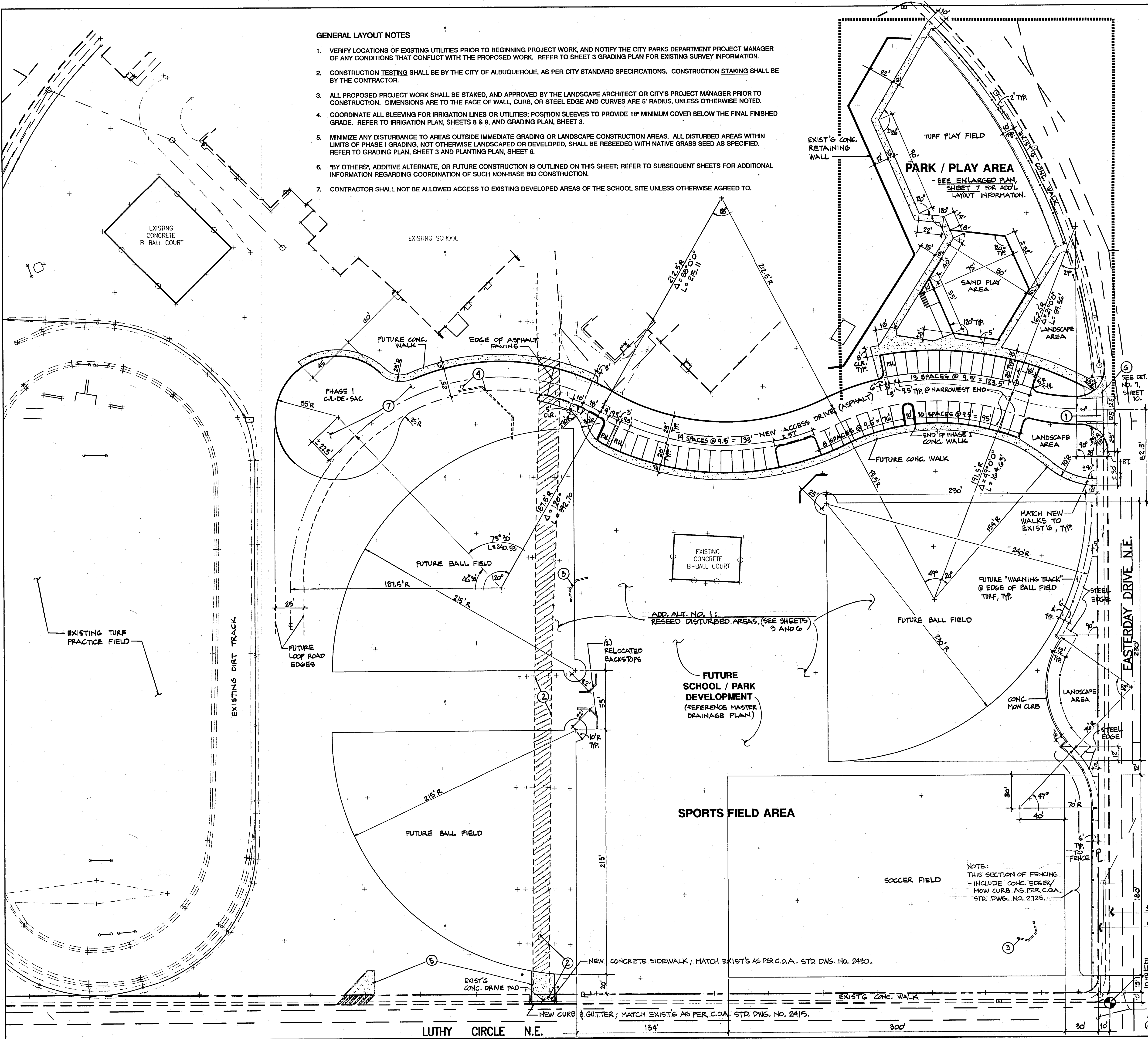
G. Robert Johns, ASLA
Landscape Architects
3218 Silver Ave. SE
Albuquerque, N.M. -87106-
Ph:(505)266-8027

REV.	SHEETS	CITY ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE		APPROVED FOR CONSTRUCTION	
		DRC Chairman		Billy J. Goshy		6-7-96		City Engineer Date 6/1/96	
		Transportation		R. J. Johnson		6-7-96			
		Water/Wastewater		R. J. Johnson		6-7-96			
		Hydrology		Carl R. Johnson		6-7-96			
		Parks		R. J. Johnson		6-7-96			
Constr. Mngmt.									
City Project No.		5396.90		Sheet		Of		C-1 10	

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Russell D. Larkin
DATE 8-28-97

May 30, 1996

26-5396.90C0197



GENERAL LAYOUT NOTES

1. VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING PROJECT WORK, AND NOTIFY THE CITY PARKS DEPARTMENT PROJECT MANAGER OF ANY CONDITIONS THAT CONFLICT WITH THE PROPOSED WORK. REFER TO SHEET 3 GRADING PLAN FOR EXISTING SURVEY INFORMATION.
2. CONSTRUCTION TESTING SHALL BE BY THE CITY OF ALBUQUERQUE, AS PER CITY STANDARD SPECIFICATIONS. CONSTRUCTION STAKING SHALL BE BY THE CONTRACTOR.
3. ALL PROPOSED PROJECT WORK SHALL BE STAKED, AND APPROVED BY THE LANDSCAPE ARCHITECT OR CITY'S PROJECT MANAGER PRIOR TO CONSTRUCTION. DIMENSIONS ARE TO THE FACE OF WALL, CURB, OR STEEL EDGE AND CURVES ARE 5' RADIUS, UNLESS OTHERWISE NOTED.
4. COORDINATE ALL SLEEVING FOR IRRIGATION LINES OR UTILITIES; POSITION SLEEVES TO PROVIDE 18" MINIMUM COVER BELOW THE FINAL FINISHED GRADE. REFER TO IRRIGATION PLAN, SHEETS 8 & 9, AND GRADING PLAN, SHEET 3.
5. MINIMIZE ANY DISTURBANCE TO AREAS OUTSIDE IMMEDIATE GRADING OR LANDSCAPE CONSTRUCTION AREAS. ALL DISTURBED AREAS WITHIN LIMITS OF PHASE I GRADING, NOT OTHERWISE LANDSCAPED OR DEVELOPED, SHALL BE RESEED WITH NATIVE GRASS SEED AS SPECIFIED. REFER TO GRADING PLAN, SHEET 3 AND PLANTING PLAN, SHEET 6.
6. 'BY OTHERS', ADDITIVE ALTERNATE, OR FUTURE CONSTRUCTION IS OUTLINED ON THIS SHEET; REFER TO SUBSEQUENT SHEETS FOR ADDITIONAL INFORMATION REGARDING COORDINATION OF SUCH NON-BASE BID CONSTRUCTION.
7. CONTRACTOR SHALL NOT BE ALLOWED ACCESS TO EXISTING DEVELOPED AREAS OF THE SCHOOL SITE UNLESS OTHERWISE AGREED TO.

KEYED NOTES

DEMOLITION/REMOVALS

1. REMOVE AND DISPOSE PORTION OF EXISTING CONCRETE WALK AND CURB & GUTTER TO ACCOMMODATE NEW DRIVE ENTRANCE.
2. REMOVE AND DISPOSE ENTIRE LENGTH OF EXISTING ASPHALT SERVICE DRIVE SOUTH OF NEW ACCESS DRIVE, REMOVE AND DISPOSE EXIST'G CONC. DRIVE PAD @ LUTHY CIRCLE.
3. SALVAGE AND RELOCATE EXISTING BACKSTOP TO NEW LOCATION AS INDICATED
4. REMOVE EXISTING SPORTS/MISCELLANEOUS EQUIPMENT TO A.P.S. STORAGE UNLESS OTHERWISE DIRECTED

NEW CONSTRUCTION [SEE SHEETS 6 & 7 FOR INFORMATION REGARDING ADDITIVE ALT'S NO. 2 & NO. 3]

5. NEW DRAINAGE STRUCTURES; REFER TO GRADING AND DRAINAGE PLANS, SECTIONS AND DETAILS, SHEETS 3-5
6. NEW PRIVATE DRIVE ENTRANCE AS PER C.O.A. STD. DWG. 2426 AND SUPPLEMENTAL DETAIL AS INDICATED
7. 6" GRAVEL BASE COURSE COMPACTED TO 95%, AS PER C.O.A. STD. SPECIFICATIONS

LEGEND

- NEW/FUTURE CONCRETE PAVING/WALKWAY
- NEW 4' HEIGHT CHAIN LINK FENCING

DETAIL REFERENCES

CITY OF ALBUQUERQUE (C.O.A.) STANDARD DETAIL DRAWINGS:

- CHAIN LINK FENCING (4' HT.) C.O.A. #2252
 - CONCRETE MOW CURB C.O.A. #2726
 - TURN-DOWN SLAB AT PLAY AREA C.O.A. #2728
 - LANDSCAPE CONCRETE EDGER AT FENCE C.O.A. #2725
- PLANTING AND IRRIGATION DETAILS SHALL BE C.O.A. STANDARDS UNLESS OTHERWISE INDICATED. ALL OTHER NON-STANDARD DETAILS ARE SHOWN ON SHEETS 5 AND 10.

26-1539d.90 02/97

AS-BUILT DWGS.

8.18.97

G. Robert Johns, ASLA
Landscape Architects
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Albuquerque, N.M. 87106
Ph: (505) 266-8027
Fax: (505) 266-6234

Jma

JEFF MORTENSEN & ASSOCIATES, INC.
600-B MIDWAY PARK BLVD. NE
ALBUQUERQUE, NM 87109
ENGINEERS & SURVEYORS (505) 345-4250
950614

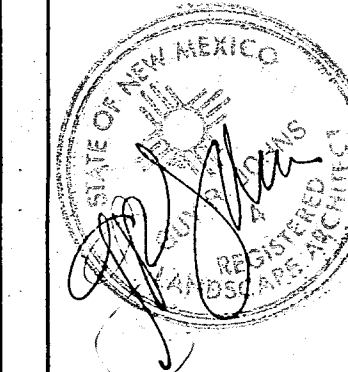
CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DESIGN & DEVELOPMENT DIVISION

TITLE: **Layout / Dimension Plan**
GRANT MIDDLE SCHOOL PARK IMPROVEMENTS . PHASE I

APPROVED
JUN 6 1998
DESIGN REVIEW COMMITTEE

APPROVED
JUN 6 1998
CITY ENGINEER

City Project No. 5396.90 Zone Map No. J-20 Sheet 2 of 10

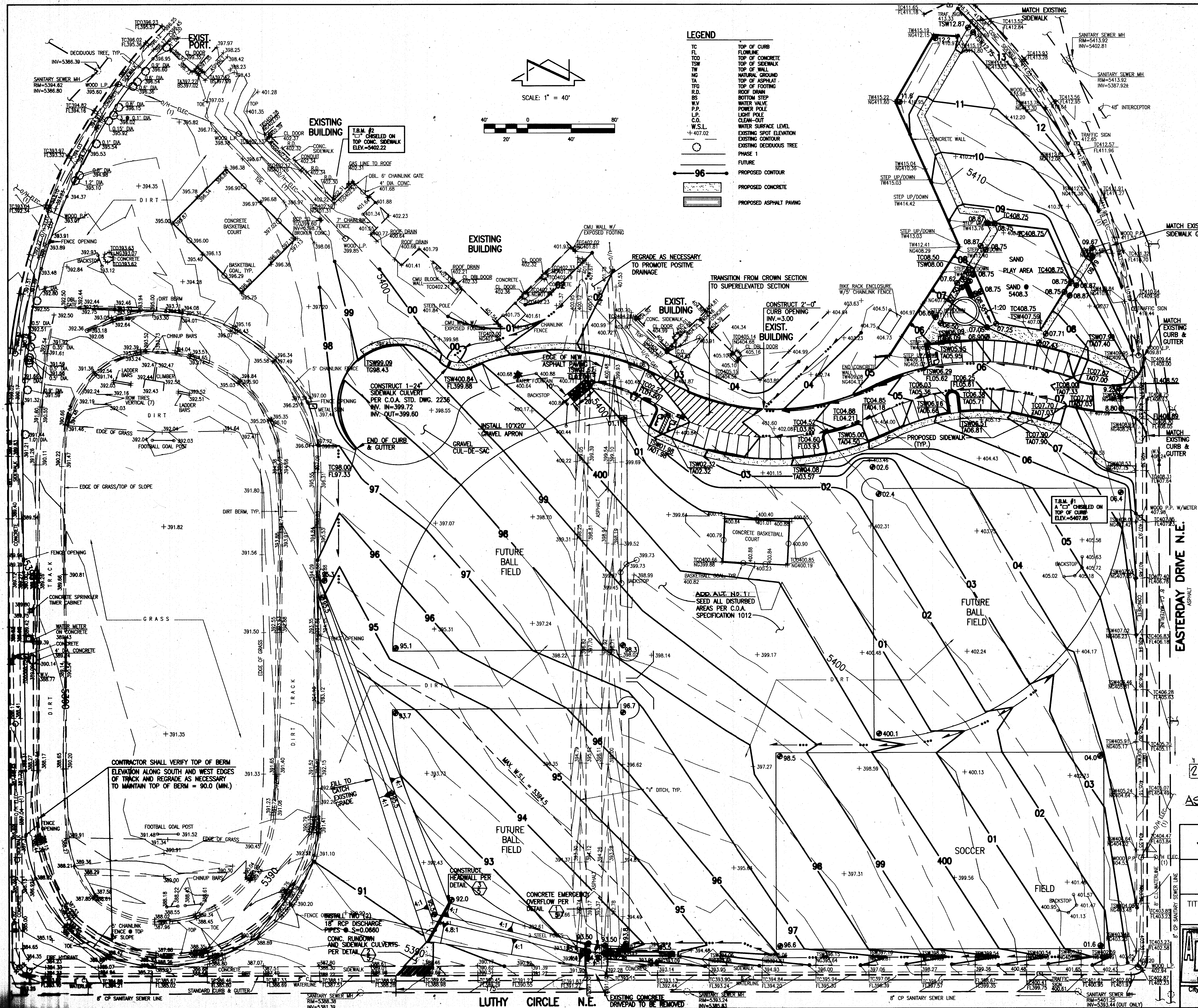


REVISIONS/REMARKS		DATE	BY

SURVEY INFORMATION		FIELD NOTES	
NO.	DATE	BY	

AS BUILT INFORMATION		BENCH MARKS	
CONTRACTOR	DATE		

MICRO-FILM INFORMATION		DATE	

[illegible]

CALCULATIONS

Site Characteristics

- Precipitation Zone = 3
- $P_{6,100} = P_{360} = 2.60$ in.
- Total Area (A_T) = 980,350 sf/22.51 ac
- Existing Land Treatment

A. Basin 'B' - A_{TB}	247,690 sf/5.69 ac	%
Treatment	Area (sf/ac)	
B	68,610/1.58	27.8
C	145,680/3.34	58.7
D	33,400/0.77	13.5

B. Basin 'C' - A_{TC}	139,720 sf/3.21 ac	%
Treatment	Area (sf/ac)	
C	139,720/3.21	100

C. Basin 'E' - A_{TE}	417,440 sf/9.58 ac	%
Treatment	Area (sf/ac)	
C	378,540/8.69	90.7
D	38,900/0.89	9.3

5. Developed Land Treatment

A. Basin 'B' - A_{TB}	244,600 sf/5.62 ac	%
Treatment	Area (sf/ac)	
B	68,610/1.58	28.1
C	142,590/3.27	58.2
D	33,400/0.77	13.7

B. Basin 'C' - A_{TC}	14,220 sf/0.38 ac	%
Treatment	Area (sf/ac)	
C	14,220/0.38	100

C. Basin 'E' - A_{TE}	537,960 sf/12.35 ac	%
Treatment	Area (sf/ac)	
B	40,240/0.93	7.6
C	346,820/7.96	64.4
D	150,900/3.46	28.0

6. Existing Condition

A. Basin 'B'	
I. Volume	
$E_W = (E_{A,A} + E_{B,B} + E_{C,C} + E_{D,D})/A_T$	
$E_W = (0.92(1.58) + 1.29(3.34) + 2.36(0.77))/5.69 = 1.33$ in	
$V_{100} = (E_W/12)A_T$	
$V_{100} = (1.33/12)5.69 = 0.6306$ ac.ft. = 27,470 cf	

II. Peak Discharge	
$Q_p = Q_{PA,A} + Q_{PB,B} + Q_{PC,C} + Q_{PD,D}$	
$Q_p = Q_{100} = 2.60(1.58) + 3.45(3.34) + 5.02(0.77) = 19.5$ cfs	

B. Basin 'C'	
I. Volume	
$E_W = (E_{A,A} + E_{B,B} + E_{C,C} + E_{D,D})/A_T$	
$E_W = (1.29(3.21))/3.21 = 1.29$ in	
$V_{100} = (E_W/12)A_T$	
$V_{100} = (1.29/12)3.21 = 0.3451$ ac.ft. = 15,030 cf	

II. Peak Discharge	
$Q_p = Q_{PA,A} + Q_{PB,B} + Q_{PC,C} + Q_{PD,D}$	
$Q_p = Q_{100} = 3.45(3.21) = 11.1$ cfs	

C. Basin 'E'	
I. Volume	
$E_W = (E_{A,A} + E_{B,B} + E_{C,C} + E_{D,D})/A_T$	
$E_W = (1.29(8.69) + 2.36(0.89))/9.58 = 1.39$ in	
$V_{100} = (E_W/12)A_T$	
$V_{100} = (1.39/12)9.58 = 1.1097$ ac.ft. = 48,340 cf	

II. Peak Discharge	
$Q_p = Q_{PA,A} + Q_{PB,B} + Q_{PC,C} + Q_{PD,D}$	
$Q_p = Q_{100} = 3.45(8.69) + 5.02(0.89) = 34.4$ cfs	

7. Developed Condition

A. Basin 'B'	
I. Volume	
$E_W = (E_{A,A} + E_{B,B} + E_{C,C} + E_{D,D})/A_T$	
$E_W = (0.92(1.58) + 1.29(3.27) + 2.36(0.77))/5.62 = 1.33$ in	
$V_{100} = (E_W/12)A_T$	
$V_{100} = (1.33/12)5.62 = 0.6229$ ac.ft. = 27,130 cf	

II. Peak Discharge	
$Q_p = Q_{PA,A} + Q_{PB,B} + Q_{PC,C} + Q_{PD,D}$	
$Q_p = Q_{100} = 2.60(1.58) + 3.45(3.27) + 5.02(0.77) = 19.3$ cfs	

B. Basin 'C'	
I. Volume	
$E_W = (E_{A,A} + E_{B,B} + E_{C,C} + E_{D,D})/A_T$	
$E_W = (1.29(0.33))/0.33 = 1.29$ in	
$V_{100} = (E_W/12)A_T$	
$V_{100} = (1.29/12)0.33 = 0.0355$ ac.ft. = 1,550 cf	

II. Peak Discharge	
$Q_p = Q_{PA,A} + Q_{PB,B} + Q_{PC,C} + Q_{PD,D}$	
$Q_p = Q_{100} = 3.45(0.33) = 1.1$ cfs	

C. Sub-Basin 'E'

I. Volume

$$E_W = (E_{A,A} + E_{B,B} + E_{C,C} + E_{D,D})/A_T$$

$$E_W = (0.92(0.93) + 1.29(7.96) + 2.36(3.46))/12.35 = 1.56$$

$$V_{100} = (E_W/12)A_T$$

$$V_{100} = (1.56/12)12.35 = 1.6055$$
 ac.ft. = 69,940 cf

II. Peak Discharge

$$Q_p = Q_{PA,A} + Q_{PB,B} + Q_{PC,C} + Q_{PD,D}$$

$$Q_p = Q_{100} = 2.60(0.93) + 3.45(7.96) + 5.02(3.46) = 47.2$$
 cfs

8. Hydrograph Calculations - Sub-Basin 'E'

A. Base Time

$$t_B = 2.107(E_W/Q_p) - 0.25(A_D/A_T)$$

$$E = 1.56$$
 in

$$A_T = 12.35$$
 ac

$$Q_p = 47.2$$
 cfs

$$A_D = 3.46$$
 ac

$$t_B = 0.79$$
 hr = 47.4 min

B. Time to Peak

$$t_p = 0.7t_c + (1.6 - A_D/A_T)/12$$

$$t_c = 0.2$$
 hr

$$A_D = 3.46$$
 ac

$$A_T = 12.35$$
 ac

$$t_p = 0.25$$
 hr = 15.0 min

C. Time of Peak

$$t_{pk} = 0.25(A_D/A_T)$$

$$A_D = 3.46$$
 ac

$$A_T = 12.35$$
 ac

$$t_{pk} = 0.07$$
 hr = 4.2 min

9. Pond Discharge Rate

A. Pressure Condition

$$Q = CA(2gh)^{0.5}$$

$$C = 0.6$$

$$g = 32.2$$
 ft/s²

$$h = 94.5 - 92.0 = 2.5$$
 ft

$$A = 1.77$$
 sf/pipe (2 pipes) = 3.54 sf (2 - 18" pipes)

$$Q = 22.5$$
 cfs

B. Gravity Flow Condition

Using Feild's Calculator for Gravity Flow in Pipes

$$\text{Let: } D = 18"$$

$$S = 0.0520$$

$$n = 0.013$$

$$\text{Therefore: } Q = 24.0 \text{ cfs/pipe} = 48.0 \text{ cfs total capacity}$$

C. Pressure Condition Governs Discharge Rate: $Q = 22.5$ cfs

10. Comparison

Basins C & E

A. Phase I

$$\Delta V_{100} = 1,550 + 69,940 - 48,340 - 15,030 = 8,120 \text{ cf (increase)}$$

$$\Delta Q_{100} = 11.1 + 34.4 - 1.1 - 22.5 = 21.9 \text{ cfs (decrease)}$$

B. Fully Developed

$$\Delta V_{100} = 1,550 + 1,630 + 64,560 - 48,340 - 15,030 = 4,370 \text{ cf (increase)}$$

$$\Delta Q_{100} = 11.1 + 34.4 - 1.1 - 1.0 - 22.5 = 20.9 \text{ cfs (decrease)}$$

11. Emergency Overflow Capacity

$$Q = CLH^{1.5}$$

$$C = 2.70$$

$$L = 24.0$$
 ft

$$H = 1.0$$
 ft

$$Q_{\text{overflow}} = 64.8 \text{ cfs} >> Q_{E-2} = 47.2 \text{ cfs}$$

12. Sidewalk Culvert Requirements

A. 24" Sidewalk Culvert Entrance Condition

$$Q = CLH^{1.5}$$

$$C = 2.60$$

$$L = 2.83$$
 ft (24" culvert @ 45 degree skew)

$$H = 0.67$$
 ft

$$Q_{\text{culvert}} = 4.0$$
 cfs

B. Number of Sidewalk Culverts Required

$$Q_{\text{release}}/Q_{\text{culvert}} = \# \text{ REQUIRED}$$

$$22.5 \text{ cfs}/4.0 \text{ cfs} = 5.625 \text{ culverts}$$

Therefore: Five 24" culverts and one 15" culvert are required

13. Pond Volume Calculations Basin 'E'

Elevation	Area (sf)	Volume (cf)	Σ Volume (cf)
92.0	0		
93.0	5,250	2,625	2,625
94.0	20,225	12,738	15,363
94.5	27,250	11,869	27,232

$$\text{Pond Volume} = 27,232 \text{ cf} > \text{Pond Required} = 22,980 \text{ cf}$$

DRAINAGE PLAN

The following items concerning the Grant Middle School Park and Playground Expansion are contained hereon:

- Vicinity Map
- Grading Plan
- Calculations

As shown by the Vicinity Map, the site is located north of Luthy Circle N.E. It is bounded on the north, east, and west sides by Easterday Drive N.E. and Sellers Drive N.E. All of these roadways are fully developed residential public streets with curb and gutter, sidewalks and asphalt concrete paving.

As shown by Panel 30 of 50 of the Flood Insurance Program Flood Insurance Rate Maps published by F.E.M.A. for the City of Albuquerque, New Mexico dated October 14, 1983, the extreme southwest corner of the site lies within a Flood Hazard Zone 40 (Depth 1'). Portions of this site contribute to this flood hazard zone.

The Grading Plan shows: 1) existing and proposed grades indicated by spot elevations and contours at 1' intervals, 2) the limit and character of the existing improvements, 3) the limit and character of the proposed improvements, and 4) continuity between existing and proposed grades. The development shown hereon, proposed for Grant Middle School, consist of the Phase I improvements for the City of Albuquerque Park and Playground Improvements. As part of these Phase I improvements, a playground area, some associated landscaping, a portion of the access road, a gravel cul-de-sac and associated parking, and mass grading for future improvements at the site are proposed. The grading shown on the plan is consistent with the grading scenario indicated by the Master Drainage Plan submitted by this office for the site. The basin boundaries shown are the same as shown on the Master Drainage Plan.

As outlined in the Master Drainage Plan, improvements will be limited to Basin E, which will reduce the size of Basins C and B. The runoff from Basin E will flow in a southeasterly direction to a new onsite detention pond. The detention facility will have a limited discharge rate of 22.5 cfs, which is less than the existing runoff discharged by Basins C and E which totals 45.5 cfs. The runoff will be conveyed via two 18" RCP storm drain pipes to a new concrete runoff which will then discharge into Luthy Circle N.E. in historic patterns, via six sidewalk culverts. An existing driveway to the east of the proposed runoff and sidewalk culverts will be utilized as an emergency overflow facility. This emergency overflow facility has more than enough capacity to handle the anticipated 100-year runoff event.

Basins B and C will continue in their historic runoff patterns. Basin C will continue to discharge by sheetflow into Luthy Circle N.E. Basin B will continue to drain southeasterly into the existing dirt running track to the southwestern corner, where it is contained by the one foot berm surrounding the track. As identified by the Master Drainage Plan, no additional facilities are proposed for Basin B. The impact of development on Basin B is very minor, and the amount of runoff discharged by Basin B is reduced by this development, therefore, thereby not negatively impacting this basin.

With the reduction of peak discharge rate being released from this site, the effects of the runoff on the downstream flood hazard zone are reduced. This flood hazard zone will be eliminated in the future with the development of the storm drain system, 325-01B, as shown on AMDS Plate J-20 which consists of a 48" storm drain from Luthy Circle to 170 feet south of Luthy Circle to connect with Manhole SB02. In the interim, onsite detention ponding will serve to mitigate the effects that this site has on downstream flooding. This site lies within an inflow area and the watershed is fully developed, limiting significant future increases in runoff. Because this project is reducing the amount of runoff being discharged from the site, the site lies within an inflow area with a fully developed watershed and future plans are in place for the installation of a storm drain system that will effectively eliminate the downstream flood hazard zone, it is felt that this drainage scenario is appropriate for this project.

The Calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The Procedure for 40-acre and Smaller Basins, as set forth in the Revision of Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, dated January, 1993, has been used to quantify the peak rate of discharge and volume of runoff generated. As shown by these calculations, an increase of 8,120 cf in volume of runoff is anticipated with this development. Because of the detention facility, a decrease of 21.9 cfs in the peak discharge rate is anticipated. The Weir Equation has been used to quantify the emergency overflow capacity and the sidewalk culvert entrance condition. The Average End Area Method has been used to quantify the pond capacity. At a discharge rate of 22.5 cfs, the detained runoff will drain from the pond in approximately 17.0 minutes.

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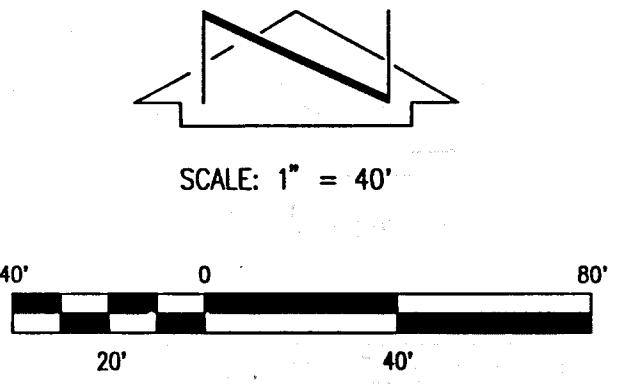
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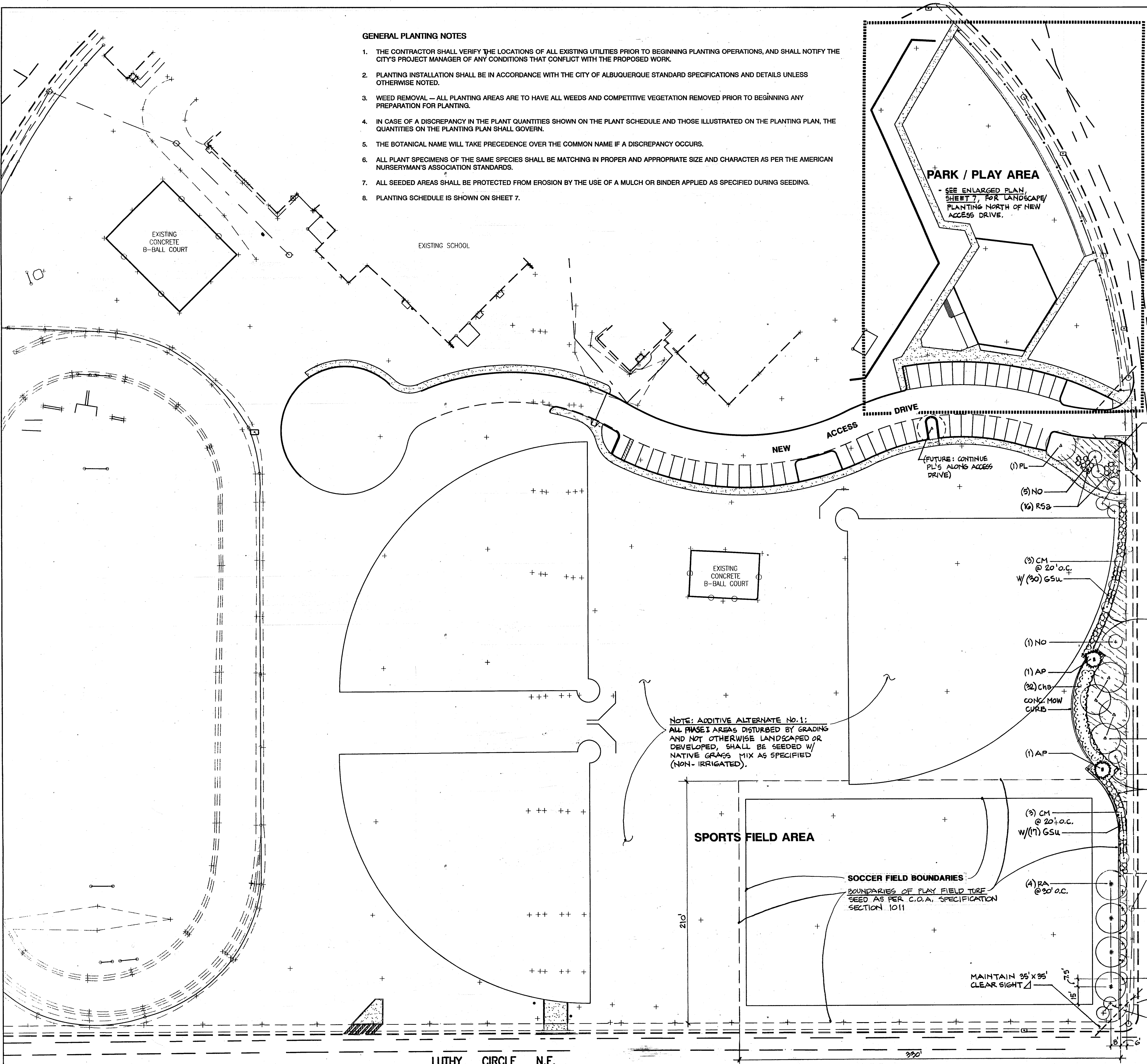
GENERAL PLANTING NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING PLANTING OPERATIONS, AND SHALL NOTIFY THE CITY'S PROJECT MANAGER OF ANY CONDITIONS THAT CONFLICT WITH THE PROPOSED WORK.
2. PLANTING INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS AND DETAILS UNLESS OTHERWISE NOTED.
3. WEED REMOVAL - ALL PLANTING AREAS ARE TO HAVE ALL WEEDS AND COMPETITIVE VEGETATION REMOVED PRIOR TO BEGINNING ANY PREPARATION FOR PLANTING.
4. IN CASE OF A DISCREPANCY IN THE PLANT QUANTITIES SHOWN ON THE PLANT SCHEDULE AND THOSE ILLUSTRATED ON THE PLANTING PLAN, THE QUANTITIES ON THE PLANTING PLAN SHALL GOVERN.
5. THE BOTANICAL NAME WILL TAKE PRECEDENCE OVER THE COMMON NAME IF A DISCREPANCY OCCURS.
6. ALL PLANT SPECIMENS OF THE SAME SPECIES SHALL BE MATCHING IN PROPER AND APPROPRIATE SIZE AND CHARACTER AS PER THE AMERICAN NURSERYMAN'S ASSOCIATION STANDARDS.
7. ALL SEEDED AREAS SHALL BE PROTECTED FROM EROSION BY THE USE OF A MULCH OR BINDER APPLIED AS SPECIFIED DURING SEEDING.
8. PLANTING SCHEDULE IS SHOWN ON SHEET 7.



LEGEND

- PROPOSED EVERGREEN TREE (represented by a circle with a dot)
- PROPOSED DECIDUOUS TREES (represented by a circle with a cross)
- PROPOSED SHRUB/GROUND COVER/ PERENNIAL PLANTINGS (represented by a circle with a star)
- PROPOSED NATIVE GRASS/WILDFLOWER SEEDING (IRRIGATED; UNKNOWN) (represented by a hatched rectangle)
- NEW 4' HEIGHT CHAIN LINK FENCING (represented by a dashed line)



MAINTAIN 35' X 35' CLEAR SIGHT TRIANGLE

EASTERDAY DRIVE N.E.

LUTHY CIRCLE N.E.

26-5396.00 10697

AS-BUILT DWGS. 8-18-97

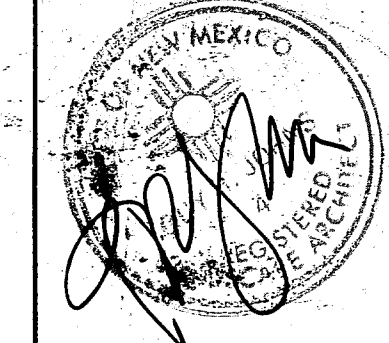
G. Robert Johns, ASLA
Landscape Architects
3218 Silver Avenue, SE
Albuquerque, N.M. 87106
Ph: (505) 266-8027
Fax: (505) 266-6234

Jma JEFF HORTENSEN & ASSOCIATES, INC.
600-B MIDWAY PARK, BLDG. 1E
ALBUQUERQUE, N.M. 87109
ENGINEERS & SURVEYORS (505) 345-4250
950614

CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DESIGN & DEVELOPMENT DIVISION

TITLE: **Landscape /Planting Plan**
GRANT MIDDLE SCHOOL PARK IMPROVEMENTS . PHASE I

APPROVED DESIGN REVIEW COMMITTEE	APPROVED CITY ENGINEER	Last Design Update	
		Me./Day/Mo.	Me./Day/Mo.



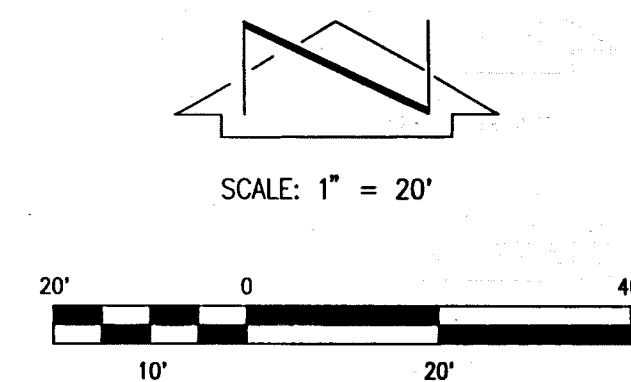
REVISIONS/REMARKS		DATE	BY

SURVEY INFORMATION		FIELD NOTES		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	BY	DATE	NO.	DATE	NO.	DATE

DESIGNED BY: G.R.J. / B.S.M. DATE: 8-18-97
DRAWN BY: B.S.M. DATE: 8-18-97
CHECKED BY: B.S.M. DATE: 8-18-97

KEY	PLANT COMMON NAME PLANT BOTANICAL NAME	QUANTITY	INSTALLED SIZE	REMARKS SPACING
TREES				
CM	CURLLEAF MOUNTAIN MAHOGANY <i>Cococarpus lodiifolius</i>	9	15 gal.	
NO	NEW MEXICO OLIVE <i>Forestiera nocomexicana</i>	16	15 gal.	
RA	RIO GRANDE/FAN-TEX ASH <i>Fraxinus velutina 'Rio Grande'</i>	12	2 1/2" cal.	24" box or B&B
GT	GOLDENRAIN TREE <i>Koelerutera paniculata</i>	1	2" cal.	B&B or cont.
AP	AFGHAN PINE <i>Pinus ekladica</i>	7	10-12" ht.	B&B
BP	BRADFORD PEAR <i>Pyrus calleryana 'Bradford'</i>	9	2'-2 1/2" cal.	20" box or B&B
PL	PURPLE ROBE LOCUST <i>Robinia x ambigua 'Purple Robe'</i>	5	2 1/2" cal.	24" box or B&B
SHRUBS/GROUNDCOVERS/VINES				
TSa	THREADLEAF SAGE <i>Artemesia filifolia</i>	0	5 gallon	4' o.c., typ.
DMi	DUSTY MILLER <i>Artemesia stellerana</i>	0	1 gallon	14" o.c., typ.
DBr	DWARF COYOTE BRUSH <i>Baccharis pitarialis</i>	10	1 gallon	3' o.c., typ.
Cha	CHAMISA/RUBBER RABBITBRUSH <i>Chrysothemum nauseosum</i>	32	1 gallon	5' o.c., typ.
LSc	'LENA' SCOTCHBROOM <i>Cytisus (Dallimorei hybrid) 'Lena'</i>	10	2 gallon	3' o.c., typ.
NJu	NEW BLUE TAM JUNIPER <i>Juniperus sabina 'Tamariscifolia New Blue'</i>	3	5 gallon	8' o.c., typ.
RSa	RUSSIAN SAGE <i>Perovskia atriplicifolia</i>	16	5 gallon	3 1/2' o.c., typ.
SVi	SILVER LACE VINE <i>Polygonum aubertii</i>	10	2 gallon	staked; spacing as noted
GSu	GRO-LOW FRAGRANT SUMAC <i>Rhus aromatica 'Gro-Low'</i>	47	2 gallon	4' o.c., typ.
CSa	CHERRY SAGE <i>Salvia greggii</i>	0	1 gallon	2 1/2' o.c. typ.

NOTE: Irrigated Native Seed Areas along Easterday Drive shall be overseeded with 1 lb. ea. of the following: *Eschscholzia californica* (CALIFORNIA POPPY), *Phacelia campanularia* (CALIFORNIA BLUEBELLS), and *Verbena Wrightii* (PURPLE VERBENA). Contractor shall purchase seed and deliver to Tom Ellis c/o Parks Management for installation.



PROPOSED DECIDUOUS TREES

PROPOSED SHRUB/GROUND COVER

(SEE SHEET 6) PROPOSED NATIVE GRASS/WILDFLOWER SEEDING
(IRRIGATED; UNMOWN)

NEW 4' HEIGHT CHAIN LINK FENCING

ACCENT BOULDER:
(PART OF ADDITIVE ALTERNATE NO. 3): $\pm 24" - 40"$ ROUGH DIAMETER RIVER ROCK (15 TOTAL REQUIRED), FOR GROUP OR INDIVIDUAL PLACEMENT AS INDICATED; REFERENCE DETAIL

* ADDITIVE ALTERNATE NO.2: ADDITIONAL (SITE FURNITURE

*BENCH (4 REQ'D):
DUMOR, INC. MODEL 11-60 RECYCLED PLASTIC
(GREY), WITH EMBEDDED STEEL SUPPORTS
(BRONZE), OR APPROVED EQUAL.

TRASH RECEPTACLE (2 REQ'D):
MATERIALS, INC. "RINCONADA" MODEL, COLOR
TO MATCH RECYCLED PLASTIC COLOR OF
SPECIFIED BENCH / PICNIC TABLE, OR
APPROVED EQUAL.

DRINKING FOUNTAIN:
(CITY STD.) MDF MODEL 410, OR APPROVED
EQUAL, INCLUDING HOOK-UP TO WATER SUPPLY
/ DRAIN AS SPECIFIED.

* PICNIC TABLE (3 REQ'D):
DUMOR, INC. MODEL 76-42PL RECYCLED PLASTIC
(GREY), WITH EMBEDDED STEEL SUPPORTS
(BRONZE), OR APPROVED EQUAL.

CITY OF ALBUQUERQUE (C.O.A.) STANDARD DETAIL DRAWINGS:

- CHAIN LINK FENCING (4' HT.) C.O.A. #2252
- CONCRETE MOW CURB C.O.A. #2726
- TURN-DOWN SLAB AT PLAY AREA C.O.A. #2728

PLANTING AND IRRIGATION DETAILS SHALL BE C.O.A. STANDARDS UNLESS OTHERWISE INDICATED. ALL OTHER NON-STANDARD DETAILS ARE SHOWN ON SHEETS 5 AND 10.

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

AS-BUILT DWGS.

8,18,97

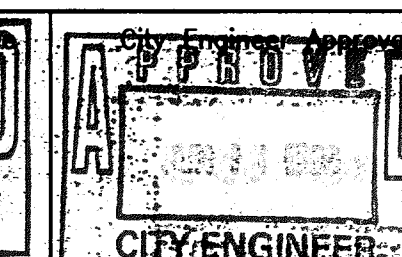
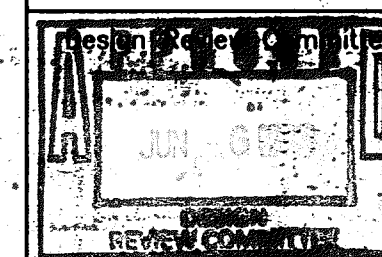
G. Robert Johns, ASLA
Landscape Architects
 3218 Silver Avenue,
 Albuquerque, N.M. 87106
 Ph: (505) 266-8027
 Fax: (505) 266-6234



JEFF MORTENSEN & ASSOCIATES, INC.
☐ 6010-B MIDWAY PARK BLVD. N.E.
☐ ALBUQUERQUE ☐ NEW MEXICO 87109
☐ ENGINEERS ☐ SURVEYORS (505) 345-4256
 950614

CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DESIGN AND DEVELOPMENT DIVISION

TITLE: **Enlarged Landscape/Planting Plan @ Park/Play Area**
GRANT: MIDDLE SCHOOL PARK IMPROVEMENTS . PHASE I

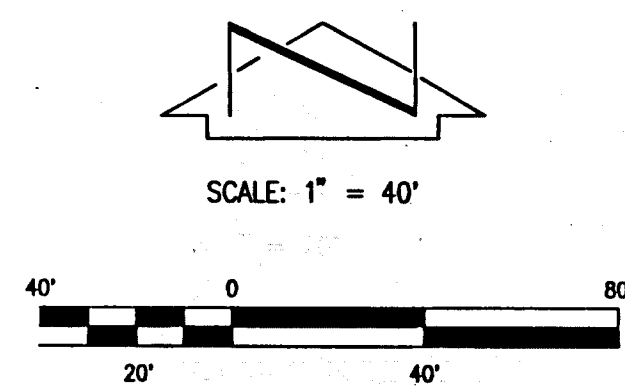


Week Design Update

City Project No.	5396.20	Zone Map No.	J-20	Sheet	7	Of	10
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GENERAL IRRIGATION NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING IRRIGATION INSTALLATION, AND SHALL NOTIFY THE CITY'S PROJECT MANAGER OF ANY CONDITIONS THAT CONFLICT WITH THE PROPOSED WORK.
2. THE IRRIGATION LAYOUT SHOWN IS SCHEMATIC. ACTUAL INSTALLATION MAY VARY SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONDITIONS WHICH SEEM TO WARRANT SUBSTANTIAL DEVIATION FROM THE PLANS.
3. STATIC WATER PRESSURE AT THE SITE IS APPROXIMATELY 60 PSI; VERIFY PRIOR TO BEGINNING IRRIGATION WORK. DESIGN/OPERATING PRESSURE AT HEAD LOCATIONS IS 30-50 PSI, TYP.
4. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS AND DETAILS UNLESS OTHERWISE NOTED.
5. SLEEVING - ALL IRRIGATION LINES BENEATH PAVING OR OTHER RIGID STRUCTURES SHALL BE LOCATED WITHIN A PVC CLASS 200 SLEEVE. ALL SLEEVES SHALL EXTEND A MINIMUM OF 1'-0" BEYOND THE PAVING. THE SLEEVE SIZE FOR THE IRRIGATION LINE SHALL BE A MINIMUM OF 2 SIZES LARGER THAN THE LINE SIZE. 24-VOLT WIRE SHALL BE IN A COMMON TRENCH WITH THE MAINLINE AND SHALL BE PLACED IN A 1-1/4" CLASS 200 PVC.
6. ALL 24-VOLT WIRE SHALL BE MARKED WITH A 4" WIDE YELLOW MARKER TAPE AND MARKED "WARNING ELECTRICAL". LAY MARKER TAPE HORIZONTALLY 6" ABOVE WIRE. MARK ALL 24-VOLT WIRE ENDS WITH 3M STD-09 WIRE MARKER TAPE AT THE VALVE BOX AND CONTROLLER LOCATIONS.
7. IRRIGATION LEGEND IS SHOWN ON SHEET 8. VALVE SCHEDULE IS SHOWN ON SHEET 9.

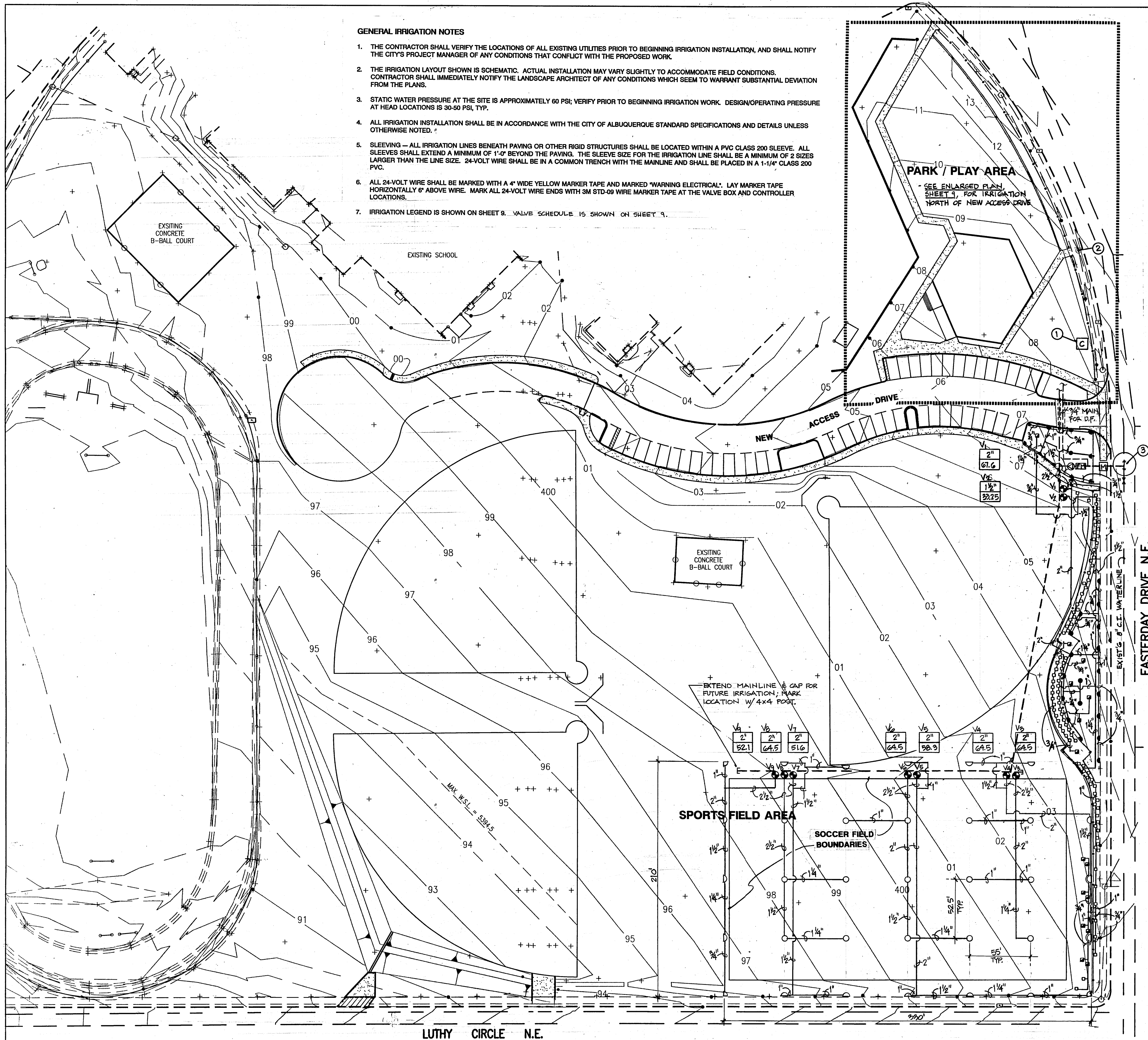


KEYED NOTES

1. PROVIDE AND INSTALL NEW IRRIGATION CONTROLLER, INCLUDING ALL ELECTRICAL CONNECTIONS, AS SPECIFIED. EXACT CONTROLLER LOCATION SHALL BE AS APPROVED BY A.P.S., BUT MUST BE WITHIN 100' OF NEW ELECTRIC METER.
2. EXISTING 35' HEIGHT P.N.M. POLE / POWER SOURCE LOCATION FOR NEW IRRIGATION CONTROLLER. CONTRACTOR SHALL INSTALL METER BASE AND WIRING, AND SHALL COORDINATE CITY PERMITTING, INSPECTION / METER INSTALLATION WITH P.N.M. AND CITY PARKS DEPARTMENT PROJECT MANAGER.
3. PROPOSED TAP-IN LOCATION AT EXISTING 8" C.I. WATER LINE. * LOCATE 2" METER, INSTALL FLOW METER AND BACKFLOW PREVENTER AS SPECIFIED. * (METER SHALL BE PROVIDED AND INSTALLED / SET BY THE CITY OF ALBUQUERQUE, INCLUDING U.E.C.'S. CONTRACTOR SHALL PROVIDE / INSTALL TAP-IN / PIPE FROM EXISTING 8" C.I. WATER LINE, AND METER BOX ACCORDING TO CITY STANDARDS.) PAVEMENT REPLACEMENT PER C.O.A. STD. DWG. NO. 2465.

SPECIAL NOTE:

FUTURE PROJECT BUILD-OUT SHALL REQUIRE LARGER METER, BACKFLOW PREVENTER, FLOW METER AND SECTION OF MAINLINE TO SERVE FUTURE FIELDS' IRRIGATION.



EASTERDAY DRIVE N.E.

LUTHY CIRCLE N.E.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REVISIONS/REMARKS	
CONTRACTOR	DATE	AC.S. 1, 3/4" ALUMINUM DISK STAMPED "A.C.S. B.M. 10-20" SET IN THE S.E. CORNER OF A TRAFFIC LIGHT BASE LOCATED AT THE INTERSECTION OF LOMAS BLVD. N.E. AND EASTERDAY DR. N.E. IN THE N.W. QUADRANT OF THE INTERSECTION.	DATE	NO.	DATE	NO.	DATE
BLANCH TREES, INC.	11/1/96						
DESIGNED BY	DATE						
DRAWN BY	DATE						
CHECKED BY	DATE						
RECORDED BY	DATE						
MICRO-FILM INFORMATION							
DATE							

26-5396.90 0897

AS-BUILT DWGS. 8-18-97

G. Robert Johns, ASLA
Landscape Architects
3218 Silver Avenue,
Albuquerque, N.M. 87106
Ph: (505) 266-8027
Fax: (505) 266-6234

Jma JEFF MORTENSEN & ASSOCIATES, INC.
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ALBUQUERQUE, N.M. 87109
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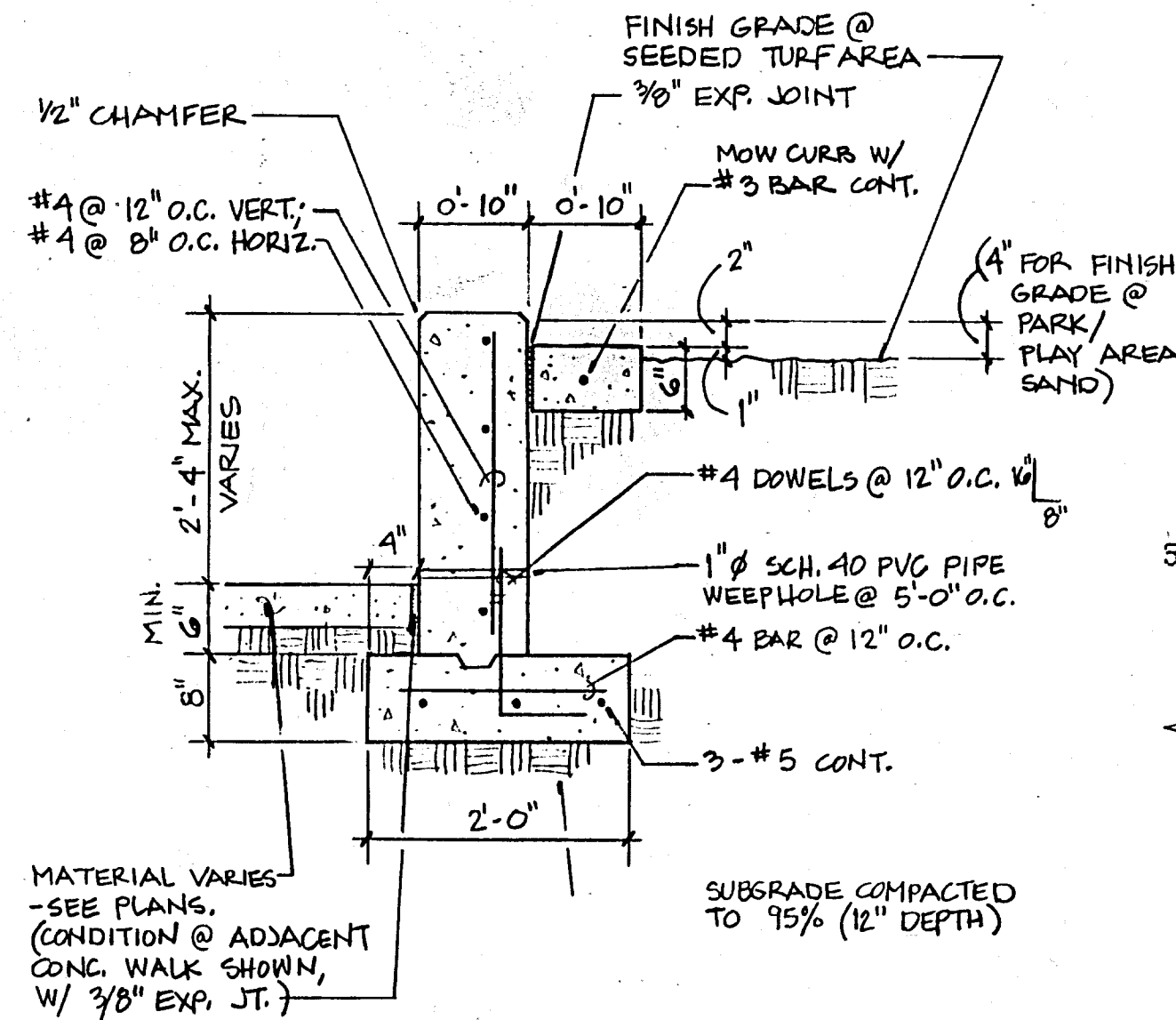
CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DESIGN & DEVELOPMENT DIVISION

TITLE: **Irrigation Plan**
GRANT MIDDLE SCHOOL PARK IMPROVEMENTS . PHASE I

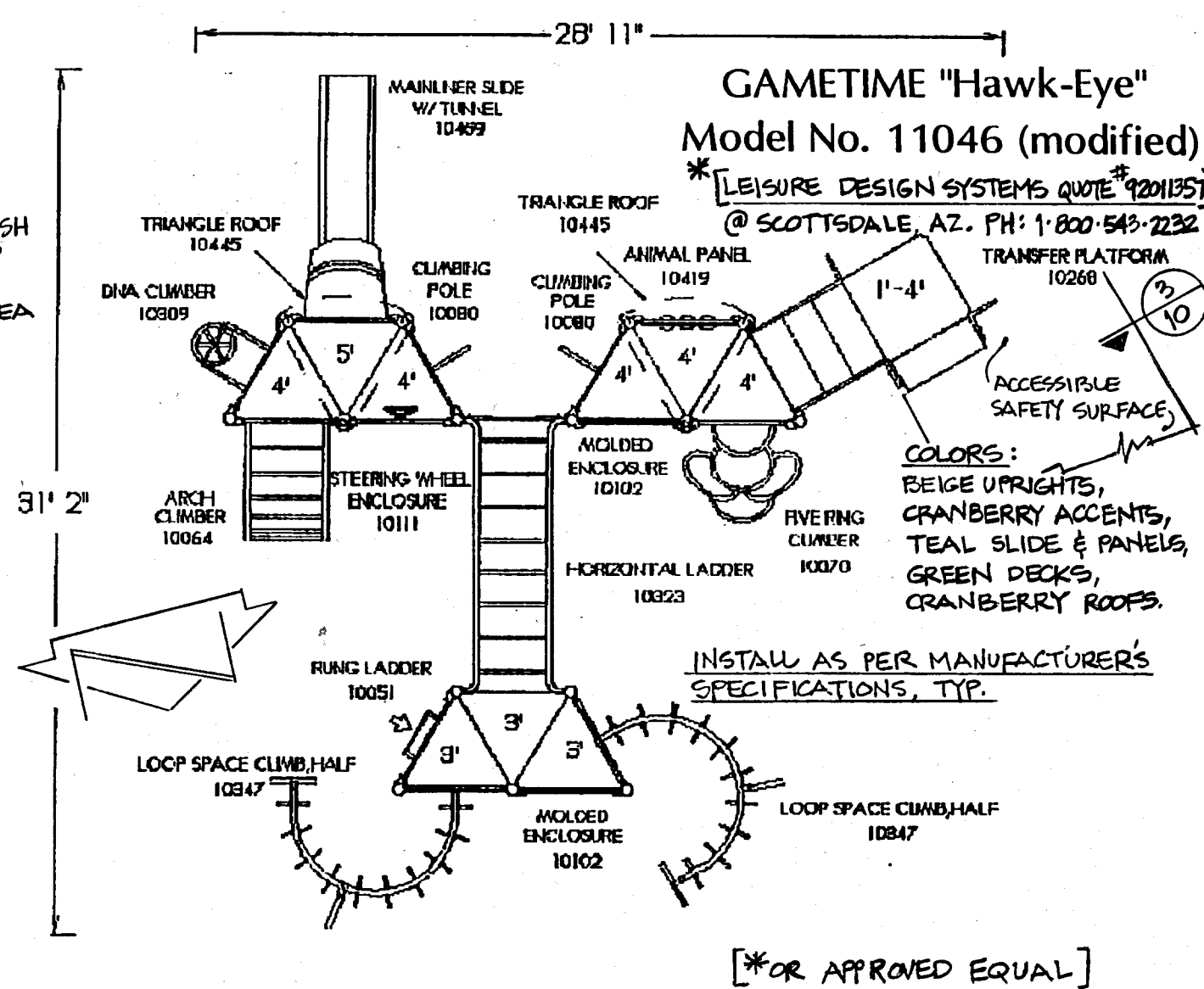
City Project No. **5396.90** Zone Map No. **J-20** Sheet **8** Of **10**

GENERAL NOTE:

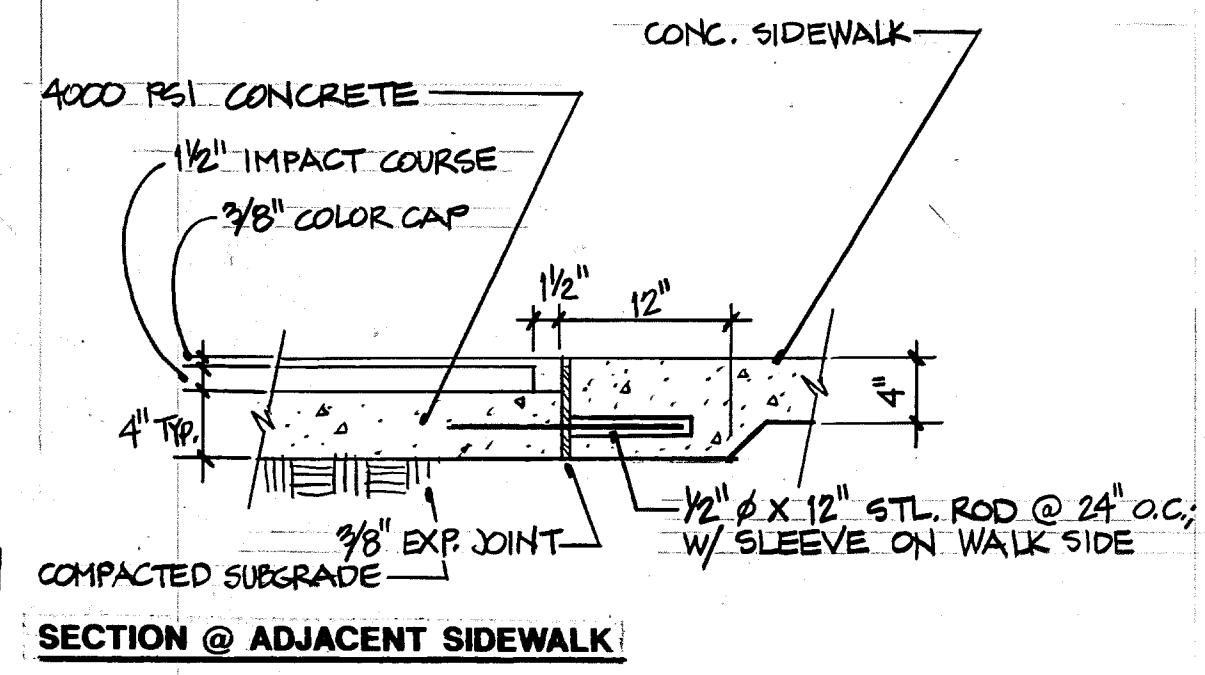
TOP SURFACES SHALL BE BROOM FINISH CONCRETE; VERTICAL SURFACES SHALL BE Sanded OR GROUND SMOOTH, WITH FORM-TIE HOLES LEFT UNFILLED. CONTROL JOINTS SHALL BE PLACED @ 5' O.C.; 1/2" EXPANSION JOINTS SHALL BE DOWELED (REF. SIM. CITY STD. DWG 2450), AND PLACED @ 20' O.C. (4000 PSI CONCRETE, TYP.)



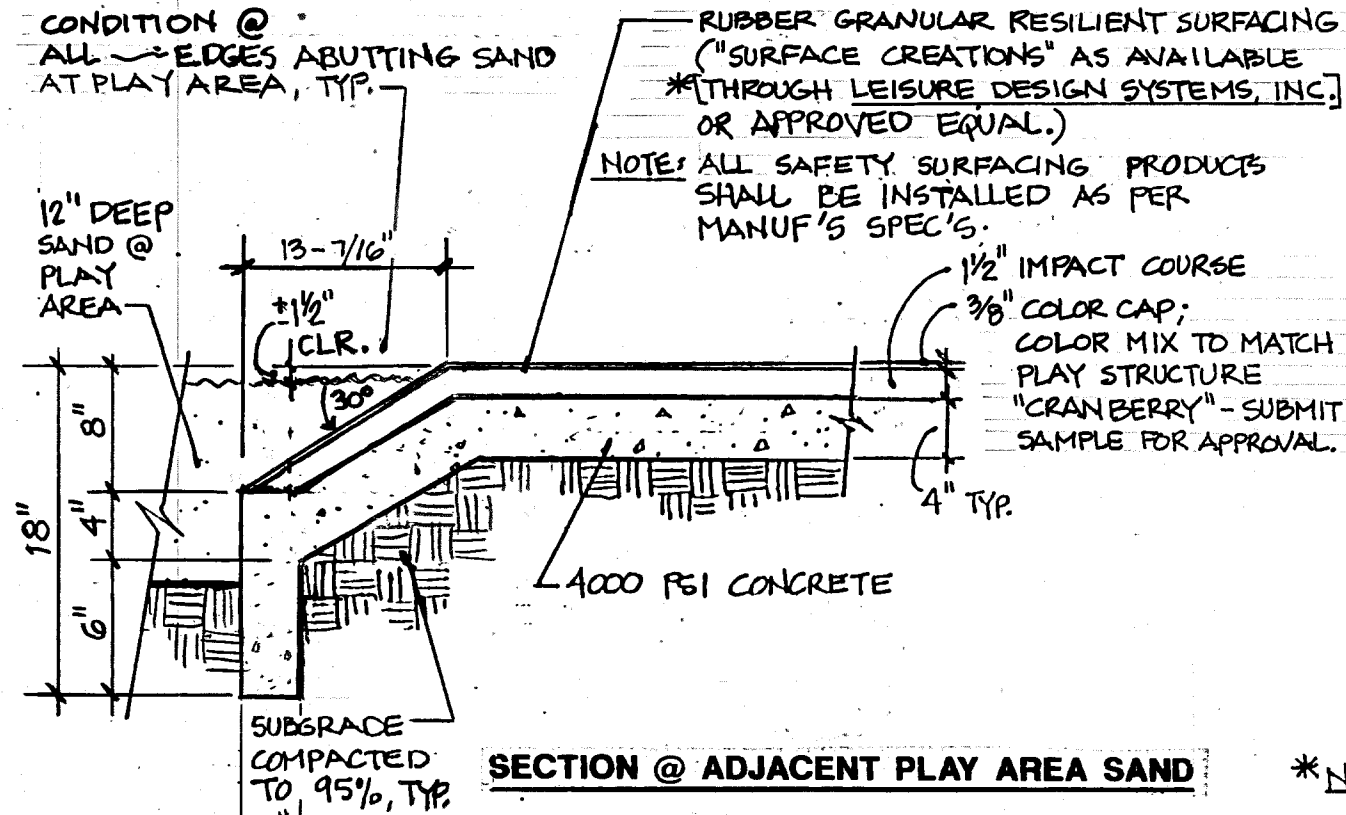
FOR CURB WALL HEIGHT GREATER THAN 10":
CONCRETE CURB WALL /
RETAINING WALL @ PARK / PLAY AREA
3/4" = 1'-0"



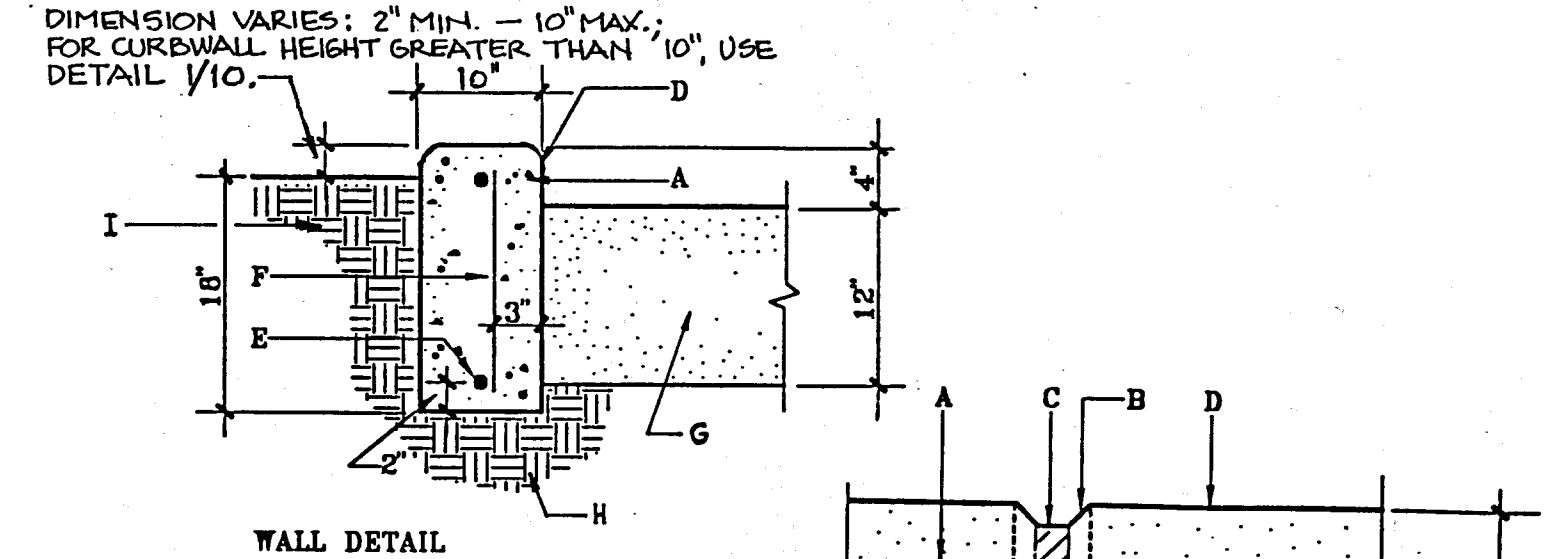
PLAY STRUCTURE - PLAN
NTS



SECTION @ ADJACENT SIDEWALK



SECTION @ ADJACENT PLAY AREA SAND
RESILIENT / ACCESSIBLE SAFETY SURFACE
NTS



GENERAL NOTES:

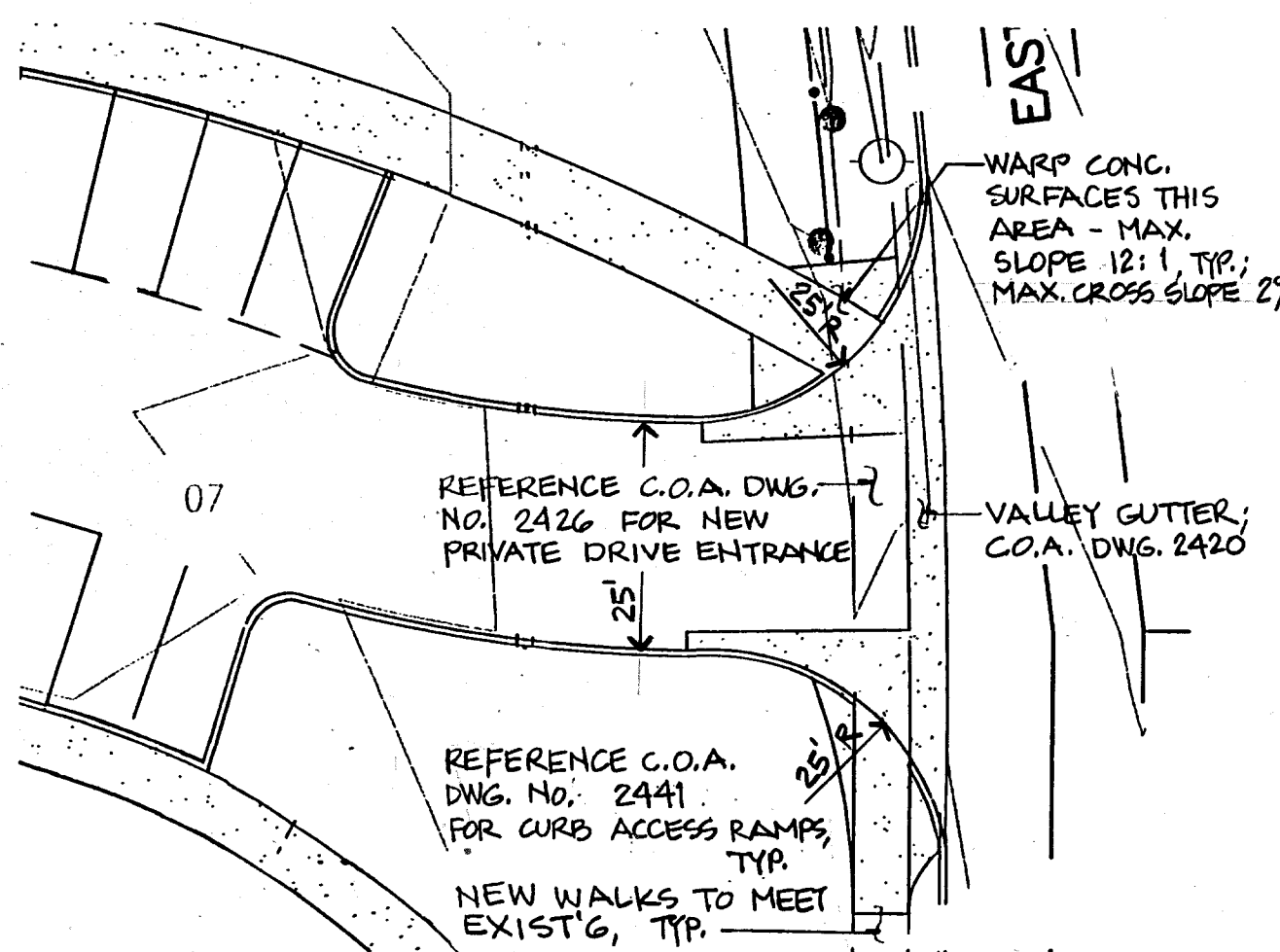
- CONTROL JOINTS SHALL BE PLACED AT 5' O.C.
- EXPANSION JOINTS SHALL BE PLACED AT 20' O.C.

CONSTRUCTION NOTES:

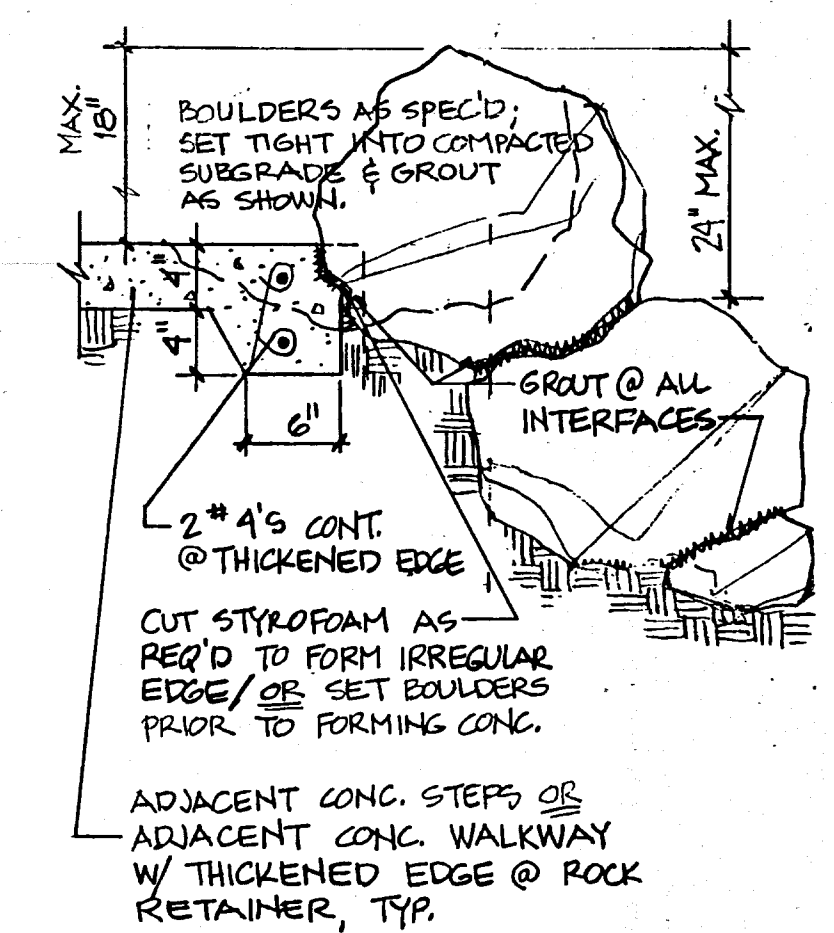
- 4000 PSI CONCRETE WITH SPEC'D FINISH. (SEE SECTION 101).
- 1" CHAMFER.
- 1/2" EXPANSION JOINT MATERIAL.
- TOOLED EDGE.
- #4 REBAR, HORIZONTAL AND CONTINUOUS.
- #4 REBAR AT 4' O.C.
- BRICK SAND. (FUTURE)
- SUBGRADE COMPACTED TO 95%. (SEE SECTION 501).
- MATERIAL VARIES. (REFERENCE THE DRAWINGS).

*NOTE: FOR CURB WALL HEIGHT GREATER THAN 10", USE DETAIL NO. 1/10 THIS SHEET.

FOR CURB WALL HEIGHT 10" OR LESS:
CONCRETE CURB WALL @ PARK / PLAY AREA
NTS

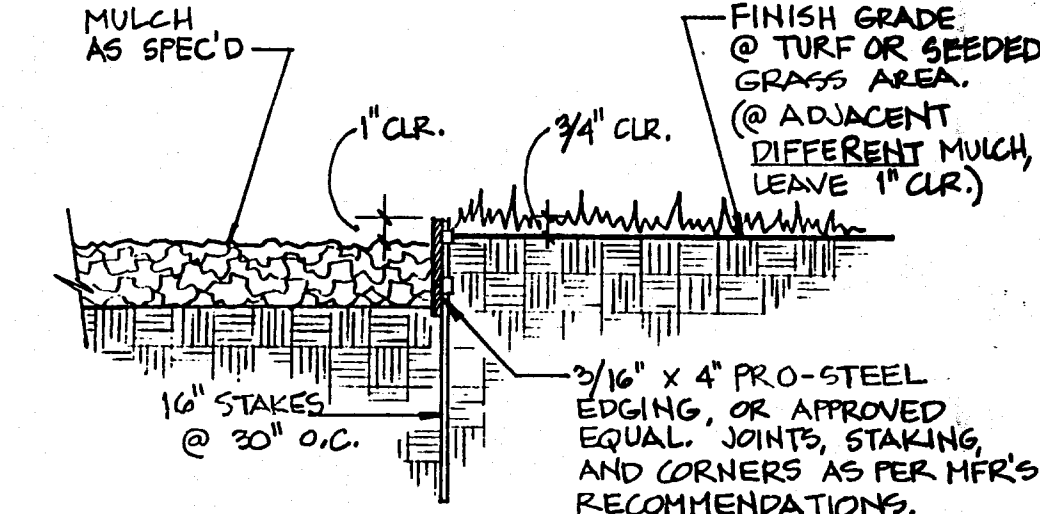


PRIVATE DRIVE ENTRANCE / SPECIAL CONDITION ACCESS RAMPS
1" = 20'-0"



BASE BID:

BOULDER RETAINER
NTS



STEEL EDGING
NTS

GENERAL NOTES

- Swing joint assembly shall be Lasco-manuf. by Philips Industries Inc., Denver, Co., Dallas, Tx. et al.
- All glue fittings shall be assembled & dry prior to assembly of threaded fittings.
- No teflon tape or pipe dope shall be used.
- All threaded fittings shall be hand tightened only & then loosened one full turn prior to installation in trench.
- Lateral line pressure testing shall be completed prior to installation of swing joint assembly. Lateral line testing shall be accomplished by installing a plug in the outlet of lateral line tees and elbows.
- Top of sprinkler head shall be set flush with finish grade.

CONSTRUCTION NOTES

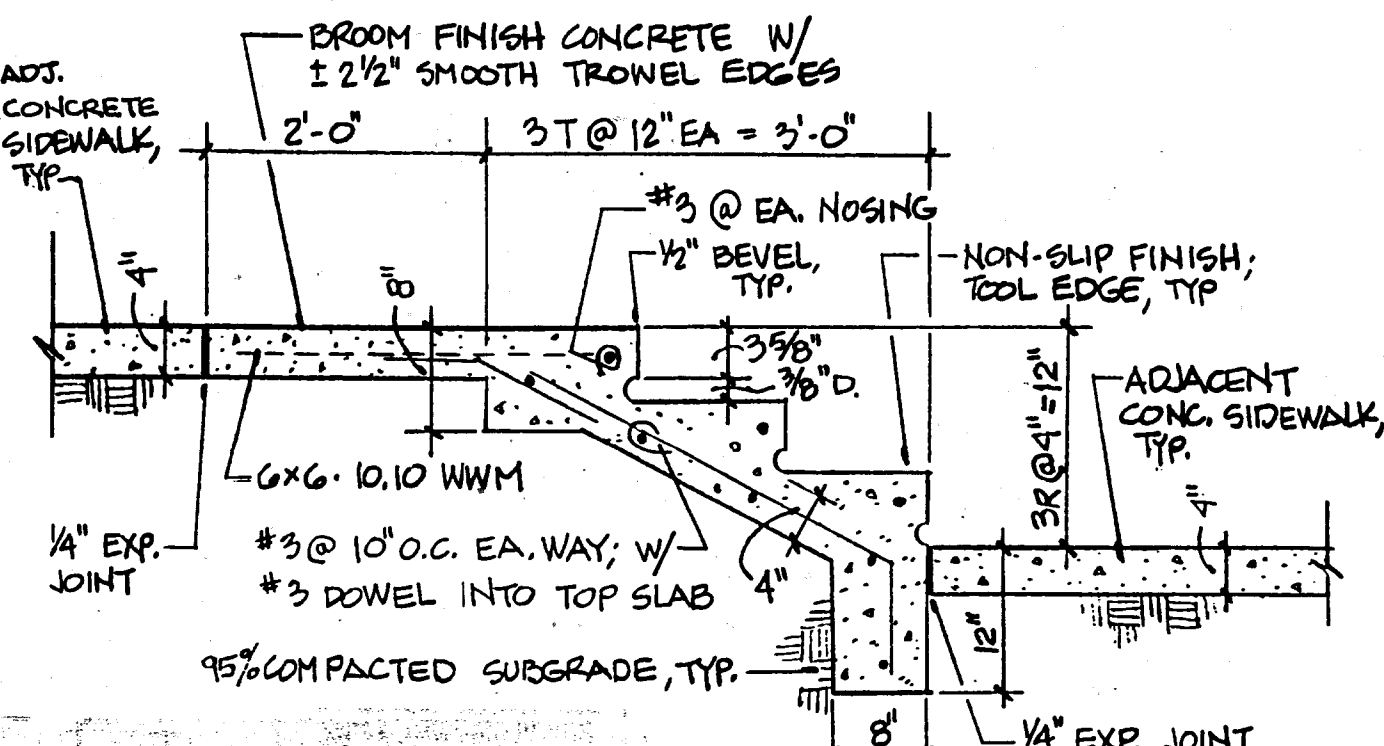
- Finish grade.
- Sprinkler head (reference the drawing).
- Sch. 80 PVC tee nipple. Size length as required.
- 90 degree elbow with Acme threads.
- 90 degree street ell with Acme M&F threads.
- Male adapter with Acme threads.
- Sch. 40 PVC pipe.
- Sch. 40 PVC S&K tee or S&K ell.
- Lateral Pipe.

GENERAL NOTES

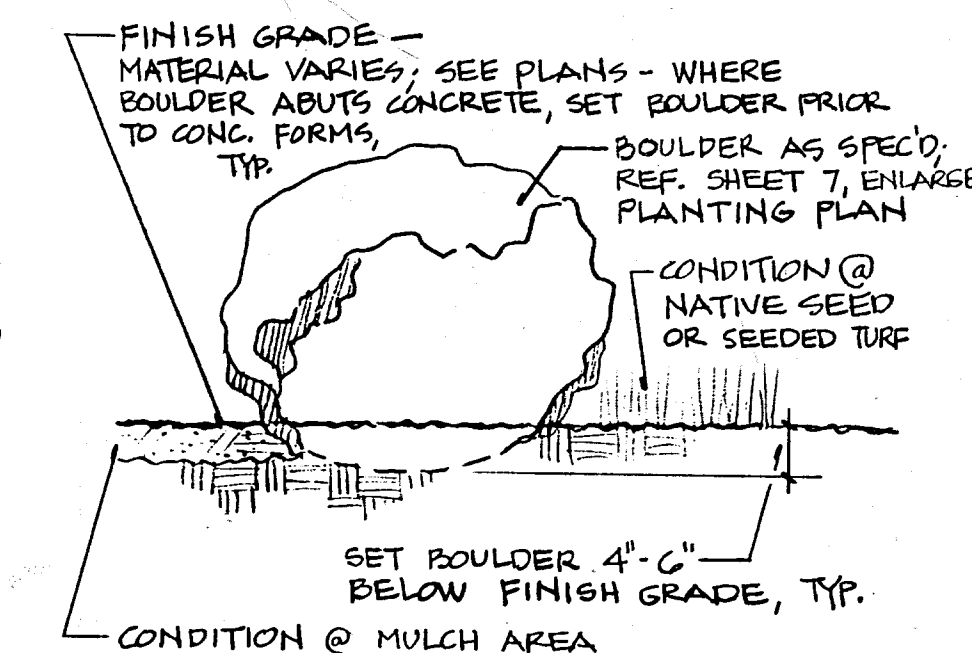
- Lateral line pressure testing shall be completed prior to installation of flex pipe assembly. Lateral line testing shall be accomplished by installing a plug in the outlet of lateral line tees and elbows.
- FOR BUBBLER LOCATIONS FOR SHRUBS IN NATIVE SEED/ MULCHED PLANTING AREAS, REFERENCE CITY STD. DETAIL 2710.
- LOCATE BUBBLER 12" OUT FROM EDGE OF FOOTBALL, ON UPHILL SIDE, TYP.

CONSTRUCTION NOTES

- Finish grade.
- Bubbler head (reference the drawing).
- Sch. 80 PVC slip cap. Do not weld.
- 4" perforated pvc drain pipe. Pipe shall be wrapped in Tevlar filter fabric. Secure filter fabric to pipe with 3 evenly spaced plastic snap ties.
- 1/2" - 3/4" washed rock.
- Sch. 80 PVC nipple.
- Sch. 40 PVC threaded ell.
- Sch. 40 PVC MIP adapter.
- PVC flexible vinyl pipe, std. IPS from Agricultural Products, Inc. (818/768-3303).
- Sch. 40 PVC S&K tee or S&K ell.
- Lateral pipe.



SECTION @ CONCRETE STEPS
NTS

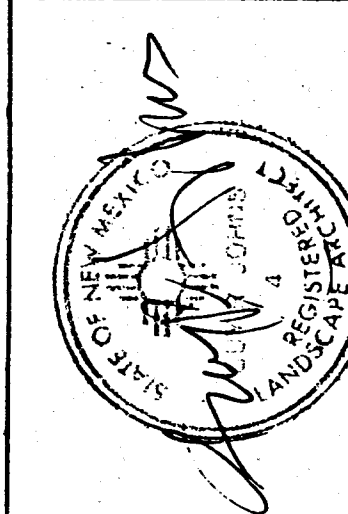


ACCENT BOULDER INSTALLATION
NTS

GEAR-DRIVEN SPRINKLER HEAD
W/ SWING JOINT ASSEMBLY
NTS

BUBBLER HEAD @ TREE IN SEED/SOD TURF AREA
NTS

AS BUILT INFORMATION				BENCH MARK				SURVEY INFORMATION			
CONTRACTOR	DATE	TIME	NO.	CONTRACTOR	DATE	TIME	NO.	NO.	DATE	BY	DATE
CONTRACTOR: BACA'S TREES, INC.	11/10/10			CONTRACTOR: BACA'S TREES, INC.	11/10/10						
WORK STAKED BY: [Signature]	DATE: 11/10/10			WORK STAKED BY: [Signature]	DATE: 11/10/10						
INSPECTOR APPROVAL: [Signature]	DATE: 11/10/10			INSPECTOR APPROVAL: [Signature]	DATE: 11/10/10						
FIELD VERIFICATION BY: [Signature]	DATE: 11/10/10			FIELD VERIFICATION BY: [Signature]	DATE: 11/10/10						
DRAWING CORRECTED BY: [Signature]	DATE: 11/10/10			DRAWING CORRECTED BY: [Signature]	DATE: 11/10/10						
MICRO-FILM INFORMATION				MICRO-FILM INFORMATION				MICRO-FILM INFORMATION			
RECORDED BY: [Signature]	DATE: 11/10/10			RECORDED BY: [Signature]	DATE: 11/10/10						
NO.				NO.							



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CITY OF ALBUQUERQUE PARKS AND GENERAL SERVICES DESIGN & DEVELOPMENT DIVISION			
TITLE: GRANT MIDDLE SCHOOL PARK IMPROVEMENTS . PHASE I Site / Landscape Details			
Design Review Committee	City Engineer Approval	NO. 7/14/10	NO. 7/14/10
APPROVED JUN 6 2010	APPROVED JUN 1 2010		
City Project No. 5396.00	Zone Map No. J-20	Sheet 10	Of 10