CONSTRUCTION DOCUMENTS

MADISON MIDDLE SCHOOL: NEW PARK DEVELOPMENT

CITY PROJECT NO. 4451.92

INDEX OF DRAWINGS

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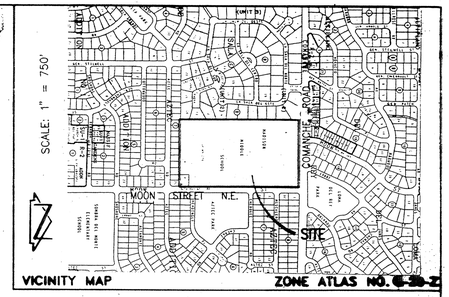
PLANTING PLAN	5 OF 7
IRRIGATION PLAN	6 OF 7
SITE / LANDSCAPE DETAILS	7 OF 7

THE FOLLOWING ALSO APPLY WHEN CHECKED

- [X] All utilities and utility service lines shall be installed prior to paving.
- [X] Backfill compaction shall be according to specified street use.
- [X] 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.
- [X] All storm drainage facilities shall be completed prior to final acceptance.



VICINITY MAP ZONE ATLAS NO. E-20-Z

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, 260-1990, 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.

RECORD DRAWINGS
Revisions Drawn by N/A Date 5/19/97

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

STATE OF NEW MEXICO — G. ROBERT JOHNS — REGISTERED LANDSCAPE ARCHITECT

January 1, 1996

APPROVALS	ENGINEER	DATE
DRC Chairman	B.J. Stockbridge	2-5-96
Transportation	[illegible]	1-29-96
Water/Wastewater	R.W. Kane	1-23-96
Hydrology	C. Montoya	2-1-96
Parks	[illegible]	1/19/96
Constr. Mngnt.		

APPROVED FOR CONSTRUCTION

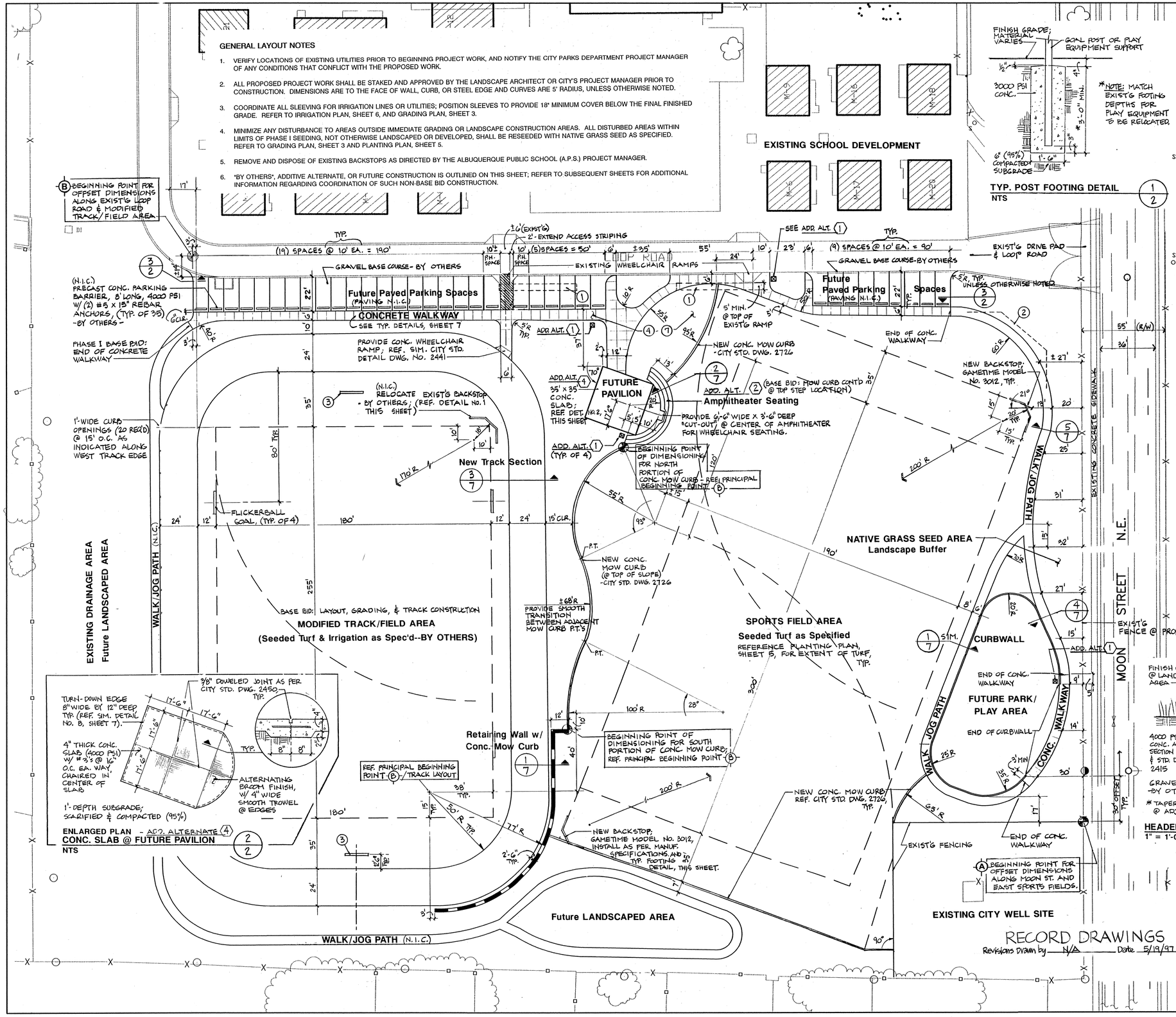
City Engineer Date 2/2/96

City Project No. 4451.92

Sheet C-1 Of 7

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.
2. 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.
3. COORDINATE ALL SLEEVING FOR IRRIGATION LINES OR UTILITIES; POSITION SLEEVES TO PROVIDE 18" MINIMUM COVER BELOW THE FINAL FINISHED GRADE. REFER TO IRRIGATION PLAN, SHEET 6, AND GRADING PLAN, SHEET 3.
4. MINIMIZE ANY DISTURBANCE TO AREAS OUTSIDE IMMEDIATE GRADING OR LANDSCAPE CONSTRUCTION AREAS. ALL DISTURBED AREAS WITHIN LIMITS OF PHASE I SEEDING, NOT OTHERWISE LANDSCAPED OR DEVELOPED, SHALL BE RESEEDED WITH NATIVE GRASS SEED AS SPECIFIED. REFER TO GRADING PLAN, SHEET 3 AND PLANTING PLAN, SHEET 5.
5. REMOVE AND DISPOSE OF EXISTING BACKSTOPS AS DIRECTED BY THE ALBUQUERQUE PUBLIC SCHOOL (A.P.S.) PROJECT MANAGER.
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.



SCALE: 1" = 30'

15' 30'
30' 0 60'

PROPOSED ADDITIVE ALTERNATE CONSTRUCTION

1. TRASH RECEPTACLES — 4 TOTAL REQUIRED (AS PER CITY STD. -- MATERIALS INC., "RINCONADA", INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.)
2. FINE GRADING AND CONSTRUCTION OF AMPHITHEATER SEATING AT VICINITY OF FUTURE PAVILION — REFERENCE DETAIL NO. 2, SHEET 7
3. PROVIDE AND INSTALL SLOPE TREATMENT: STABILIZED CRUSHER FINES/GRAVEL MIX — REFERENCE PLANTING PLAN, SHEET NO. 5
4. FINE GRADING AND CONSTRUCTION OF CONCRETE SLAB (35' X 35') AT FUTURE PAVILION — REFERENCE DETAIL THIS SHEET
5. PROVIDE AND INSTALL CRUSHER FINES MULCH — REFERENCE PLANTING PLAN, SHEET NO. 5
6. PROVIDE AND INSTALL ACCENT BOULDERS — REFERENCE PLANTING PLAN, SHEET NO. 5, AND DETAIL NO. 9, SHEET 7

KEYED NOTES

1. REMOVE AND DISPOSE MISCELLANEOUS ASPHALT PAVING. (APPROXIMATELY 450 S.F. TOTAL)
2. REMOVE AND DISPOSE EXISTING LARGE BACKSTOP (REMOVE/RELOCATE REMAINING SMALL BACKSTOPS AS DIRECTED)
3. RELOCATE EXISTING GOAL POSTS (REMOVE REMAINING EXISTING GOAL POSTS TO A.P.S. STORAGE, UNLESS OTHERWISE DIRECTED)

NOTE: FOR KEYED NOTES (4) - (7) CONCERNING DISPOSITION OF EXISTING PLAY EQUIPMENT (CURRENT LOCATION IS IN VICINITY OF FUTURE PAVILION):

BASE BID: REMOVE TO A.P.S. STORAGE

4. REMOVE EXISTING DOUBLE SWING AS DIRECTED.
5. REMOVE EXISTING 6-SEAT SWING AS DIRECTED.
6. REMOVE EXISTING LARGE CLIMBER AS DIRECTED.
7. REMOVE EXISTING MONKEY BARS AS DIRECTED.

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

NO.	DATE	REVISIONS/REMARKS	BY
1	2-7-96	ADDENDUM No. 1 - REISSUE SHEET	GRJ

DESIGNED BY: GRJ DATE: 9/95
DRAWN BY: RBM DATE: 9/95
CHECKED BY: GRJ DATE: 1/96

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
N/A	JMA	1992

BENCH MARK
STATION "7-C20" IS S STANDARD A.C.S. BRASS CAP AT THE TOP OF THE CONCRETE CURB LOCATED AT THE INTERSECTION OF COMANCHE RD. AND MOON ST. N.E. AT THE NORTH END OF MOON STREET N.E.
ELEVATION = 5470.49 FEET (M.S.L.D.)

AS BUILT INFORMATION

CONTRACTOR	DATE:
WORK STAKED BY	DATE:
INSPECTOR'S APPROVAL	DATE:
FIELD VERIFICATION BY	DATE:
DRAWING CORRECTED BY	DATE:

MICRO-FILM INFORMATION
RECORDED BY DATE:
NO.

STATE OF NEW MEXICO — GUY R. JOHNS — REGISTERED LANDSCAPE ARCHITECT — 4

CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DESIGN & DEVELOPMENT DIVISION

TITLE: MADISON MIDDLE SCHOOL
Layout/Dimension Plan

Design Review Committee	City Engineer Approval	Last Design Update	MO./DAY/YR.	MO./DAY/YR.

City Project No.	Zone Map No.	Sheet	Of
4451.92	G-20-Z	2	7

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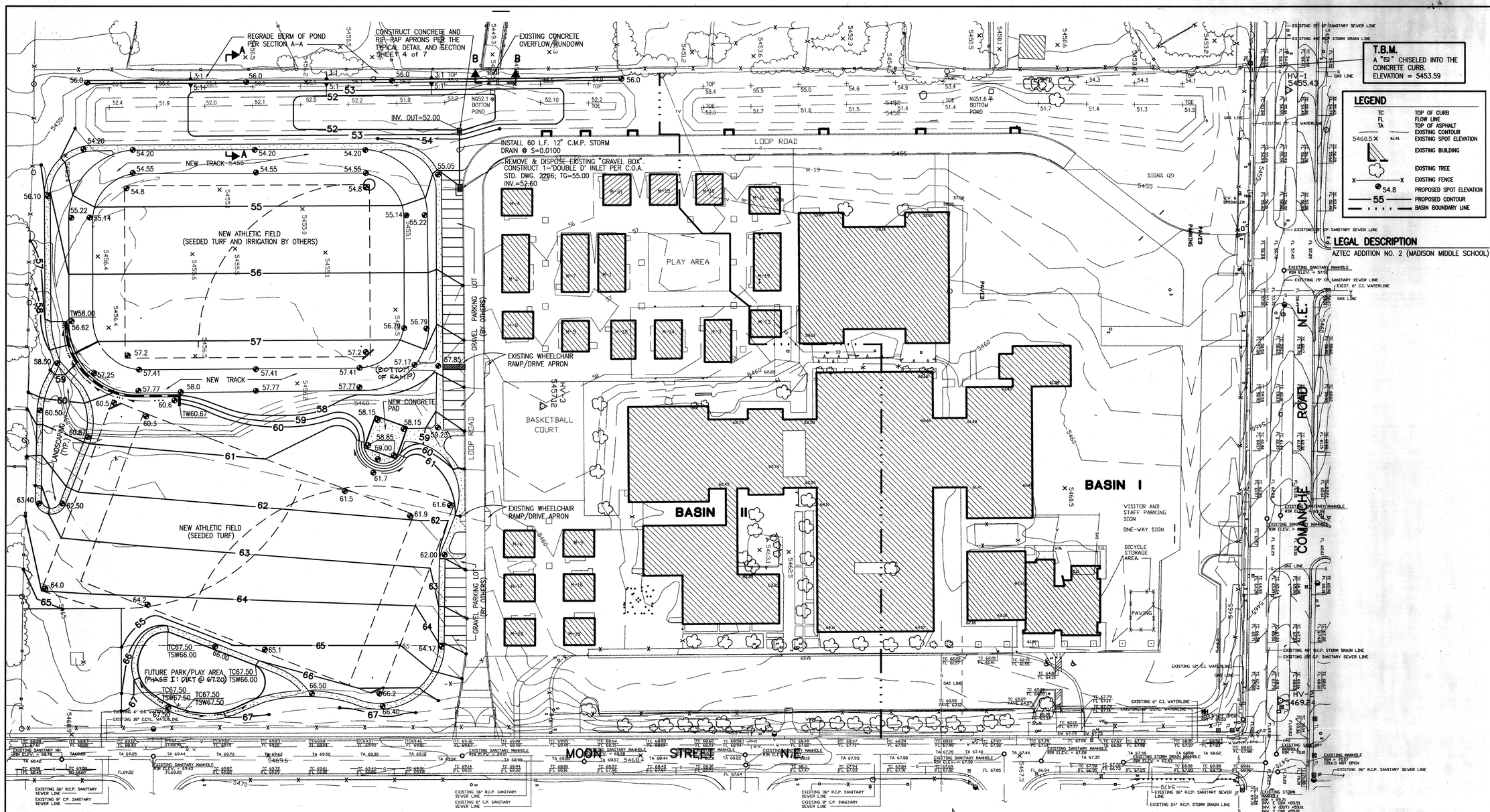


Construction Notes:

1. Two (2) working days prior to any excavation, contractor must contact New Mexico One Call System 260-1990, for location of existing utilities.
2. Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer in writing so that the conflict can be resolved with a minimum amount of delay.
3. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
4. All construction within public right-of-way shall be performed in accordance with applicable City of Albuquerque Standards and Procedures.
5. If any utility lines, pipelines, or underground utility lines are shown on these drawings, they are shown in an approximate manner only, and such lines may exist where none are shown. If any such existing lines are shown, the location is based upon information provided by the owner of said utility, and the information may be incomplete, or may be obsolete by the time construction commences. The engineer has conducted only preliminary investigation of the location, depth, size, or type of existing utility lines, pipelines, or underground utility lines. This investigation is not conclusive, and may not be complete, therefore, makes no representation pertaining thereto, and assumes no responsibility or liability therefor. The contractor shall inform itself of the location of any utility line, pipeline, or underground utility line in or near the area of the work in advance of and during excavation work. The contractor is fully responsible for any and all damage caused by its 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.
6. The design of planters and landscaped areas is not part of this plan. All planters and landscaped areas adjacent to the building(s) shall be provided with positive drainage to avoid any ponding adjacent to the structure. For construction details, refer to landscaping plan.

Erosion Control Measures:

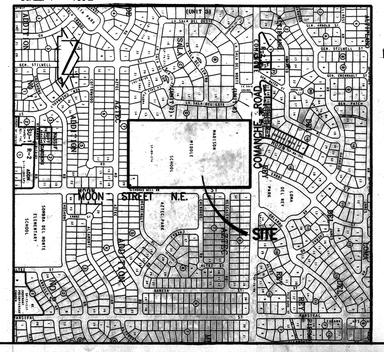
1. The contractor shall ensure that no soil erodes from the site into public right-of-way or onto private property.
2. The contractor shall promptly clean up any material excavated within the public right-of-way so that the excavated material is not susceptible to being washed down the street.
3. The contractor shall secure "Topsoil Disturbance Permit" prior to beginning construction.

NOTE:
ALL GRADING SHOWN HEREON SHALL BE CONSTRUCTED DURING PHASE I CONSTRUCTION (BASE BID). REFER TO LAYOUT/DIMENSION PLAN (SHEET 2) FOR SCOPE OF CONSTRUCTION TO BE CONSIDERED AS ALTERNATES, FUTURE CONSTRUCTION, AND OTHER WORK TO BE PERFORMED BY OTHERS.

JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE NEW MEXICO 87109
ENGINEERS SURVEYORS (505) 345-4250

950501

VICINITY MAP
SCALE: 1" = 750'±



G-20

RECORD DRAWINGS
Revisions Drawn by N/A Date 5/19/97

AS BUILT INFORMATION
CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S APPROVAL DATE:
FIELD VERIFICATION BY DATE:
DRAWING CORRECTED BY DATE:
MICRO-FILM INFORMATION
RECORDED BY DATE:
NO.

BENCH MARK
STATION "7-G20" IS S STANDARD A.C.S. BRASS CAP AT THE TOP OF THE CONCRETE CURB LOCATED AT THE INTERSECTION OF COMANCHE RD. AND MOON ST. N.E. AT THE NORTH END OF MOON STREET N.E.
ELEVATION = 5470.49 FEET (M.S.L.D.)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
901895	JMA	1992

REVISIONS/REMARKS

NO.	DATE	BY
	DATE: 10/1995	
	DATE: 10/1995	
	DATE: 10/1995	

DESIGNED BY: G.R.B.
DRAWN BY: S.G.H.
CHECKED BY: J.G.M.

JEFF S. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER
10-95

CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DESIGN & DEVELOPMENT DIVISION

TITLE: MADISON MIDDLE SCHOOL PARK DEVELOPMENT GRADING PLAN

Design Review Committee	City Engineer Approval	Last Design Update	MO./DAY/YR.	MO./DAY/YR.
B.Q.B. 2/5/96				

City Project No.	Zone Map No.	Sheet	Of
4451.92	G-20	3	7

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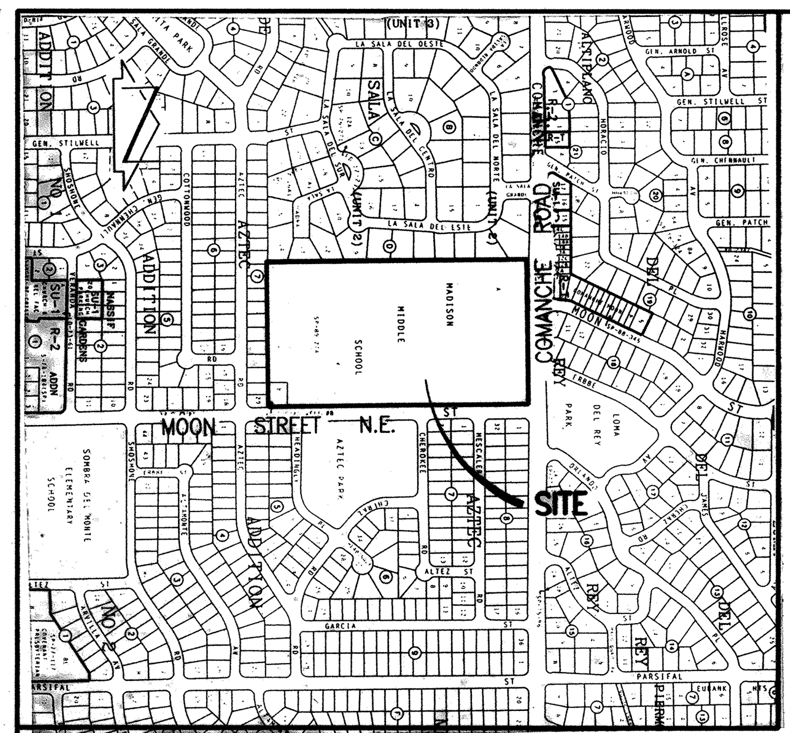


VICINITY MAP — G-20

SCALE: 1" = 750'±

T.B.M.

A "☐" CHISELED INTO THE CONCRETE CURB AS SHOWN ON SHEET .
ELEVATION = 5453.59 FEET (M.S.L.D.)

LEGAL DESCRIPTION

AZTEC ADDITION NO. 2 (MADISON MIDDLE SCHOOL)

DRAINAGE PLAN

The following items concerning the Madison Middle School Park Development are contained hereon:

1. Vicinity Map
2. Grading Plan
3. Calculations

As shown by the Vicinity Map, the site is located at the southwest corner of the intersection of Comanche Road N.E. and Moon Street N.E. Both streets are fully developed city sheets complete with curb and gutter, asphalt paving, and storm drain facilities.

As shown by Panel 24 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps published by F.E.M.A. for the City of Albuquerque, New Mexico dated October 14, 1983, a portion of a Flood Hazard Zone AO (depth 1) passes through the northern portion of the site and lies within Comanche Road N.E. and Moon Street N.E. along the perimeter of the site. A previous submittal for this site prepared by Chavez–Grieves dated 03/22/93 identified that City Project No. 4451.90 would remove this floodplain from the site by constructing storm drain facilities in Moon Street N.E. This project has been constructed and accepted by the City of Albuquerque July 13, 1994.

The site is currently developed as a middle school. The site contains permanent buildings, portable classroom buildings, paved parking areas, a paved bus access roadway and a track at the southwest corner of the site. This plan identifies two drainage basins, I & II, as shown by previous submittals by Chavez–Grieves. Each drainage basin drains to individual drainage ponds previously designed and constructed to mitigate excessive runoff flowing onto La Sala Grande Subdivision, which borders the site to the west, via two existing drainage easements.

The Grading Plan shows: 1) existing grades indicated by contours at 1'0" intervals and spot elevations; 2) proposed grades indicated by contours at 1'0" intervals and spot elevations; 3) the limit and character of the existing improvements, 4) the limit and character of the proposed improvements, and 5) continuity between existing and proposed grades. The development proposed for this project is confined to the southerly portion of the site, completely within Drainage Basin I. The improvements include construction of sidewalks, a new playground area, a new paved track, new athletic fields, an amphitheater with covered pavilion, and graveled parking areas. Development will not alter existing drainage patterns to the existing ponding facility and will continue to accept offsite flows from the existing City of Albuquerque Well Site located at the southeast corner of the site. This area of the site is largely undeveloped except for the unpaved track. Development will increase the amount of impervious area in the basin, however, the proposed athletic fields and landscaped areas will actually improve drainage conditions within the basin, by increasing the infiltration rate of runoff into the soil. As part of the grading of the site, the existing ponding facility in the basin is being modified to accommodate the development and provide positive drainage to the existing discharge inlet. A hydrograph analysis determined the volume required for the detention pond. Although the pond size is being reduced, the hydrograph analysis provides the required pond size for the basin, and the regrading mitigates the existing standing runoff in the pond. In the event that flow is restricted from leaving the pond, runoff will continue to flow over the existing overflow drainage structure. Improvements in this plan reflect a modification to an existing site within an infill area.

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, a decrease of 3,360 cf in runoff volume and 3.1 cfs in the peak discharge rate is anticipated with this development. Pond Volume Calculations were performed using the Average End Area Method.

MADISON MIDDLE SCHOOL CALCULATIONS

Site Characteristics

1. Precipitation Zone = 3
2. $P_{6,100} = P_{360} = 2.60$
3. Total Area (A_T) = 503,805 sf = 11.57 ac.
4. Existing Land Treatment

Treatment	Area (sf/ac)	%
C	332,237/7.63	66.0
D	171,570/3.94	34.0

5. Developed Land Treatment

Treatment	Area (sf/ac)	%
A	8,802/0.20	1.7
B	219,021/5.03	43.5
C	63,175/1.45	12.5
D	213,037/4.89	42.3

Existing Condition

1. Volume
$E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$
$E_W = [1.29(7.63) + 2.36(3.94)]/11.57 = 1.65$ in.
$V_{100} = (E_W/12)A_T$
$V_{100} = (1.65/12)11.57 = 1.590$ ac. ft. = 69,300 cf
2. Peak Discharge
$Q_p = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$
$Q_p = Q_{100} = 3.45(7.63) + 5.02(3.94) = 46.1$ cfs

Developed Condition

1. Volume
$E_W = (E_A A_A + E_B E_B + E_C A_C + E_D A_D)/A_T$
$E_W = [0.66(0.20)+0.92(5.03)+1.29(1.45)+2.36(4.89)]/11.57 = 1.57$ in.
$V_{100} = (E_W/12)A_T$
$V_{100} = (1.57/12)11.57 = 1.510$ ac. ft. = 65,940 cf
2. Peak Discharge
$Q_p = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$
$Q_p = Q_{100} = 1.87(0.20)+2.60(5.03)+3.45(1.45)+5.02(4.89)$
$Q_{100} = 43.0$ cfs

HYDROGRAPH CALCULATIONS

$t_B = 2.107\ E\ (A_T/Q_p) - 0.25(A_D/A_T)$
$= 2.107(1.57)(11.57/43.0) - 0.25(4.89/11.57) = 0.7844$ hr = 47.1 min

$t_p = 0.7\ t_c + (1.6 - A_D/A_T)/12$
$= 0.7(0.17) + (1.6 - 4.89/11.57)/12 = 0.2171$ hr = 13.0 min

$0.25(A_D/A_T) = 0.25(4.89/11.57) = 0.1057$ hr = 6.3 min

EXISTING INLET CAPACITY CALCULATIONS

A. 0 to 1 foot Pond Depth

8 – 3" weep holes
$Q = CA(2gh)^{0.5}$
Let: C = 0.6
A = 8(0.049 sf) = 0.392 sf
$g = 32.2\ ft/s^2$
h = 0.62 ft (avg.)
Therefore: Q = 1.5 cfs

B. 1 to 2 foot Pond Depth

1. Discharge Pipe Condition (existing)
$Q = CA(2gh)^{0.5}$
Let: C = 0.6
A = 1.77 sf (18" C.M.P.)
$g = 32.2\ ft/s^2$
h = 53.5 – 49.6 – 0.75 = 3.15 ft (avg.)
Therefore: Q = 15.1 cfs
2. Inlet Sump Condition
3.2' x 3.5' inlet with rebar grid
$Q = CA(2gh)^{0.5}$
Let: C = 0.6
A = 11.2 sf
$g = 32.2\ ft/s^2$
h = 0.5 ft (avg.)
Therefore: $Q = 38.1\ cfs >> Q_{pipe} = 15.1\ cfs$

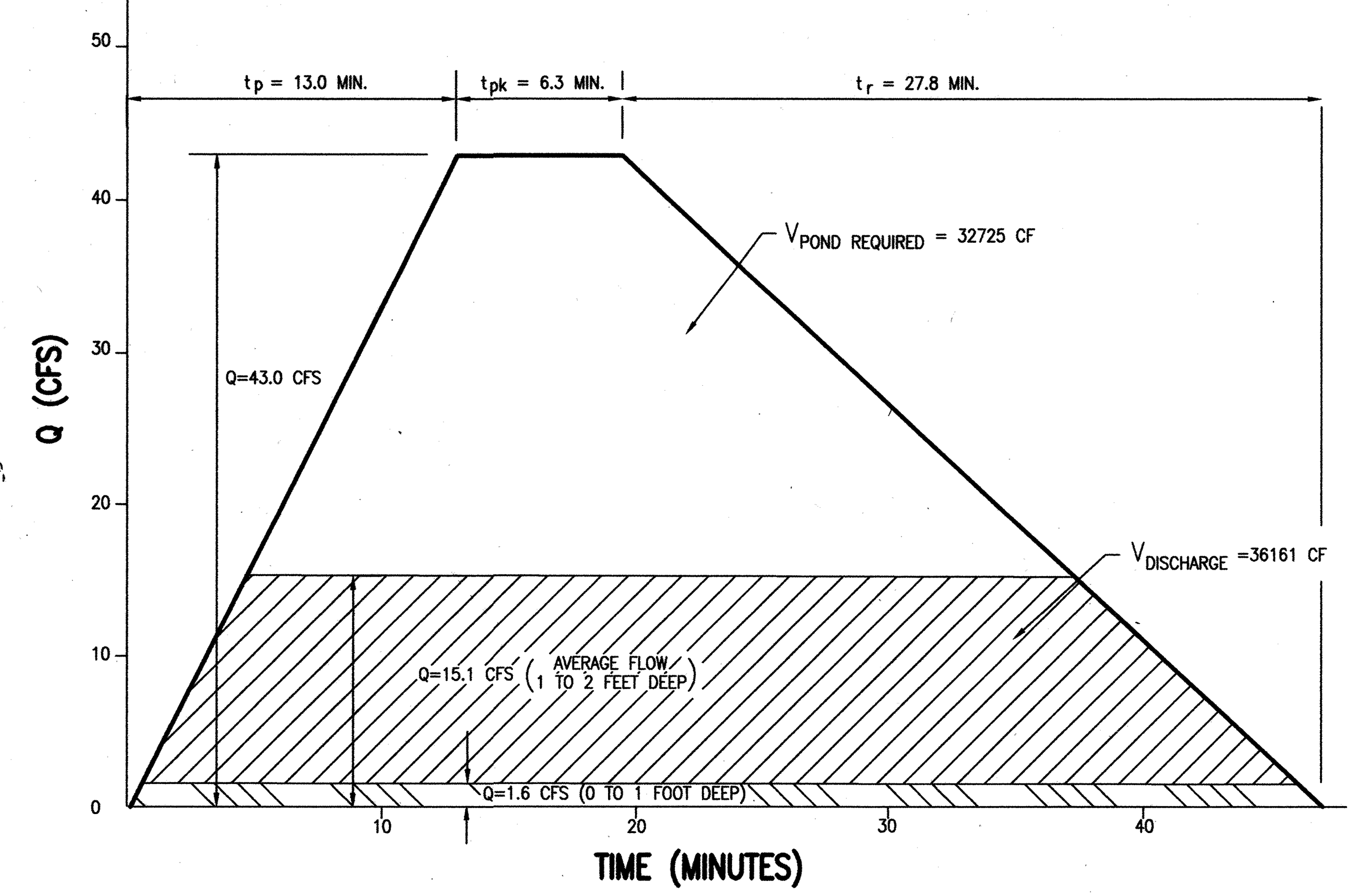
PONDING CAPACITY

Elevation	Area (sf)	Volume (cf)	Σ Volume (cf)
52.0	6,800		
		11,812	11,812
53.0	16,825		
		23,175	34,987
54.0	29,525		

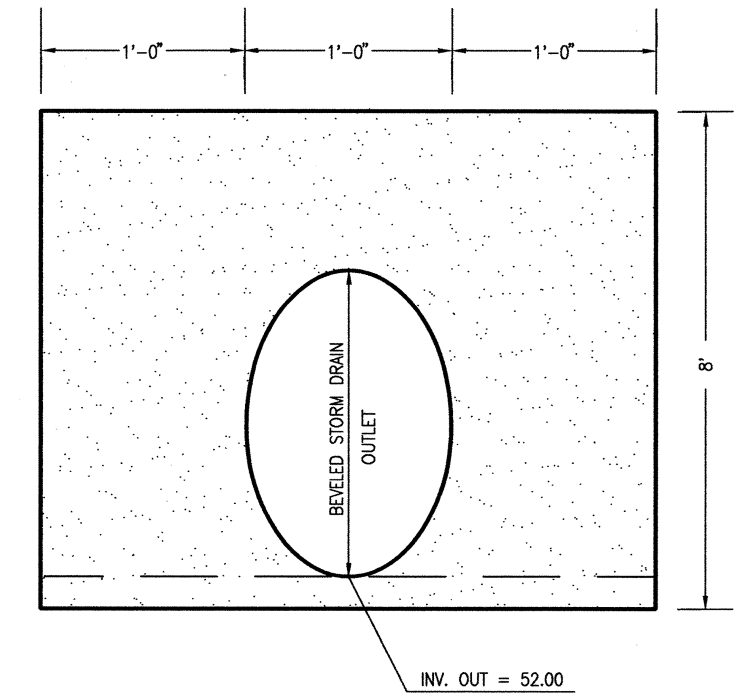
The proposed pond capacity per this plan is approximately 34,987 cf which is greater than the ponding required per the hydrograph calculations.

Comparison

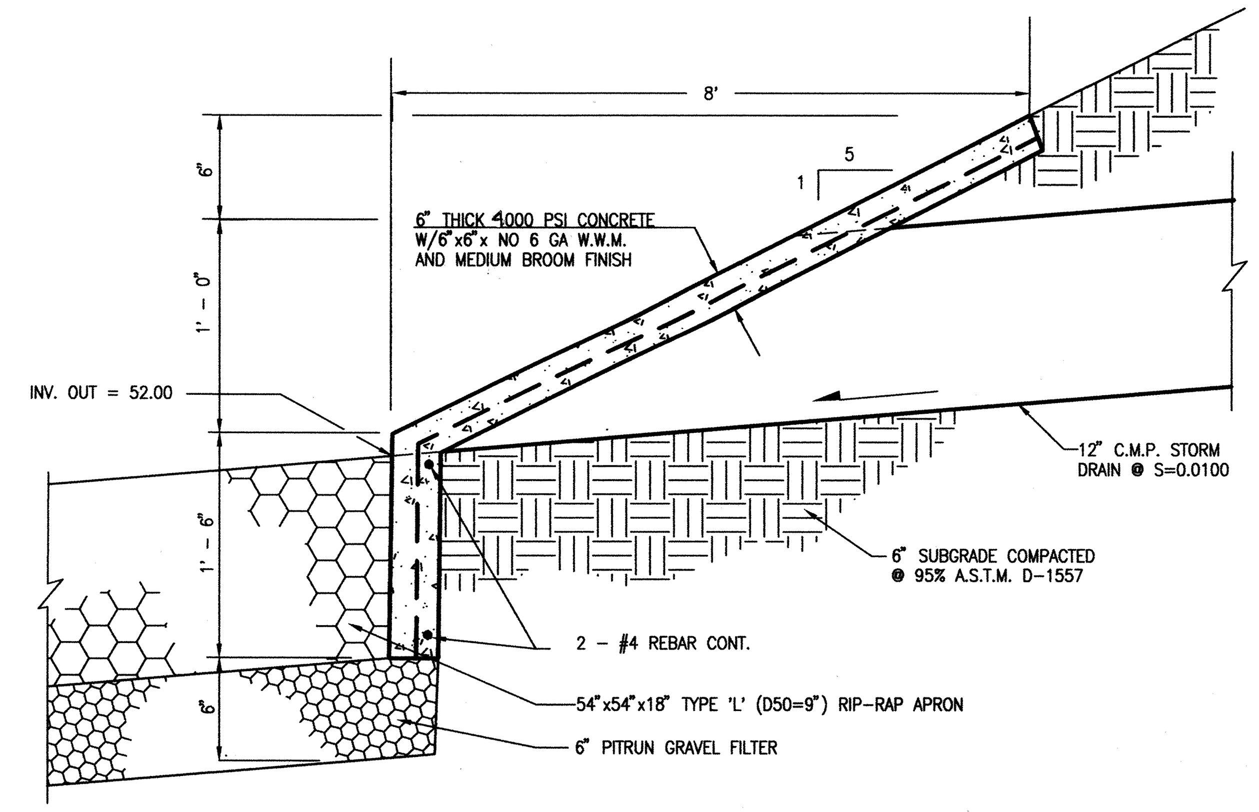
1. ΔV_{100} = 69,300 – 65,940 = 3,360 cf (decrease)
2. ΔQ_{100} = 46.1 – 43.0 = 3.1 cfs (decrease)



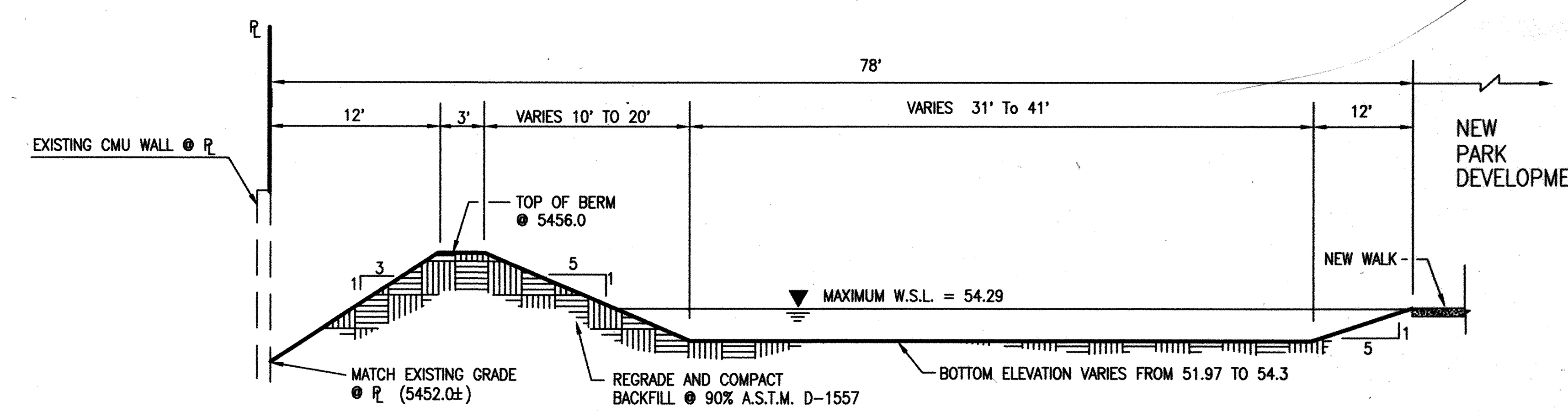
HYDROGRAPH ANALYSIS



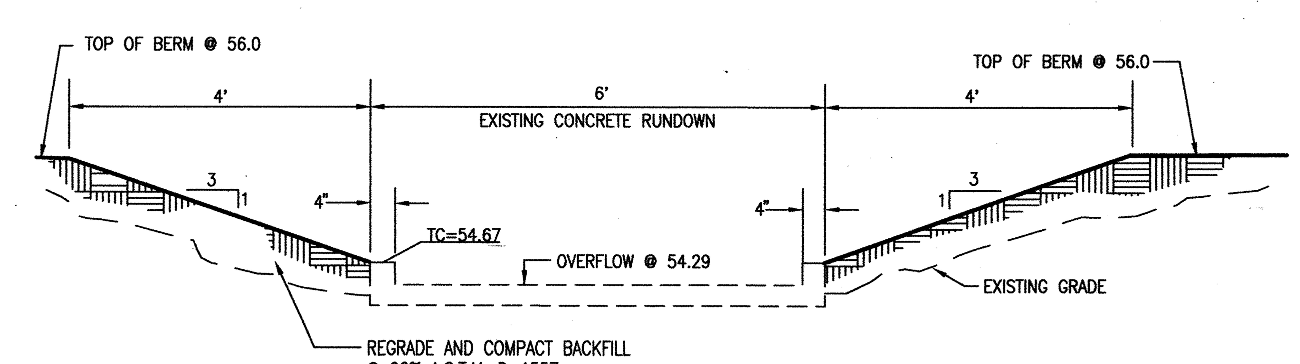
TYPICAL APRON DETAIL
N.T.S.



TYPICAL APRON SECTION
N.T.S.



SECTION A–A
SCALE: 1" = 10' (HORIZ.)
1" = 5' (VERT.)



SECTION B–B
SCALE: 1" = 2'

RECORD DRAWINGS
Revisions Drawn by N/A Date 5/19/97

950501

JMA
JEFF MORTENSEN & ASSOCIATES, INC.
☐ 6010–B MIDWAY PARK BLVD. N.E.
☐ ALBUQUERQUE ☐ NEW MEXICO 87109
☐ ENGINEERS ☐ SURVEYORS (505) 345–4250

AS BUILT INFORMATION
CONTRACTOR — DATE:
WORK STAKED BY — DATE:
INSPECTOR'S APPROVAL — DATE:
FIELD VERIFICATION BY — DATE:
DRAWING CORRECTED BY — DATE:

MICRO–FILM INFORMATION
RECORDED BY — DATE:
NO.

BENCH MARK
STATION "7–G20" IS S STANDARD A.C.S. BRASS CAP AT THE TOP OF THE CONCRETE CURB LOCATED AT THE INTERSECTION OF COMMANCHE RD. AND MOON ST. N.E. AT THE NORTH END OF MOON STREET N.E.
ELEVATION = 5470.49 FEET (M.S.L.D.)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
N/A	JMA	1992

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER
11-10-95

REVISIONS/REMARKS

NO.	DATE	REVISIONS/REMARKS	BY

DESIGNED BY: G.R.B. DATE: 10/1995
DRAWN BY: S.G.H. DATE: 10/1995
CHECKED BY: J.G.M. DATE: 10/1995

CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DESIGN & DEVELOPMENT DIVISION

TITLE: MADISON MIDDLE SCHOOL PARK DEVELOPMENT
DRAINAGE PLAN, CALCULATIONS, SECTIONS AND DETAILS

Design Review Committee: 2/5/96
City Engineer Approval:
Last Design Update — MO./DAY/YR. — MO./DAY/YR.

City Project No. 4451.92 | Zone Map No. G-20 | Sheet 4 Of 7

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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.

SECTION 1012 - SUPPLEMENTAL

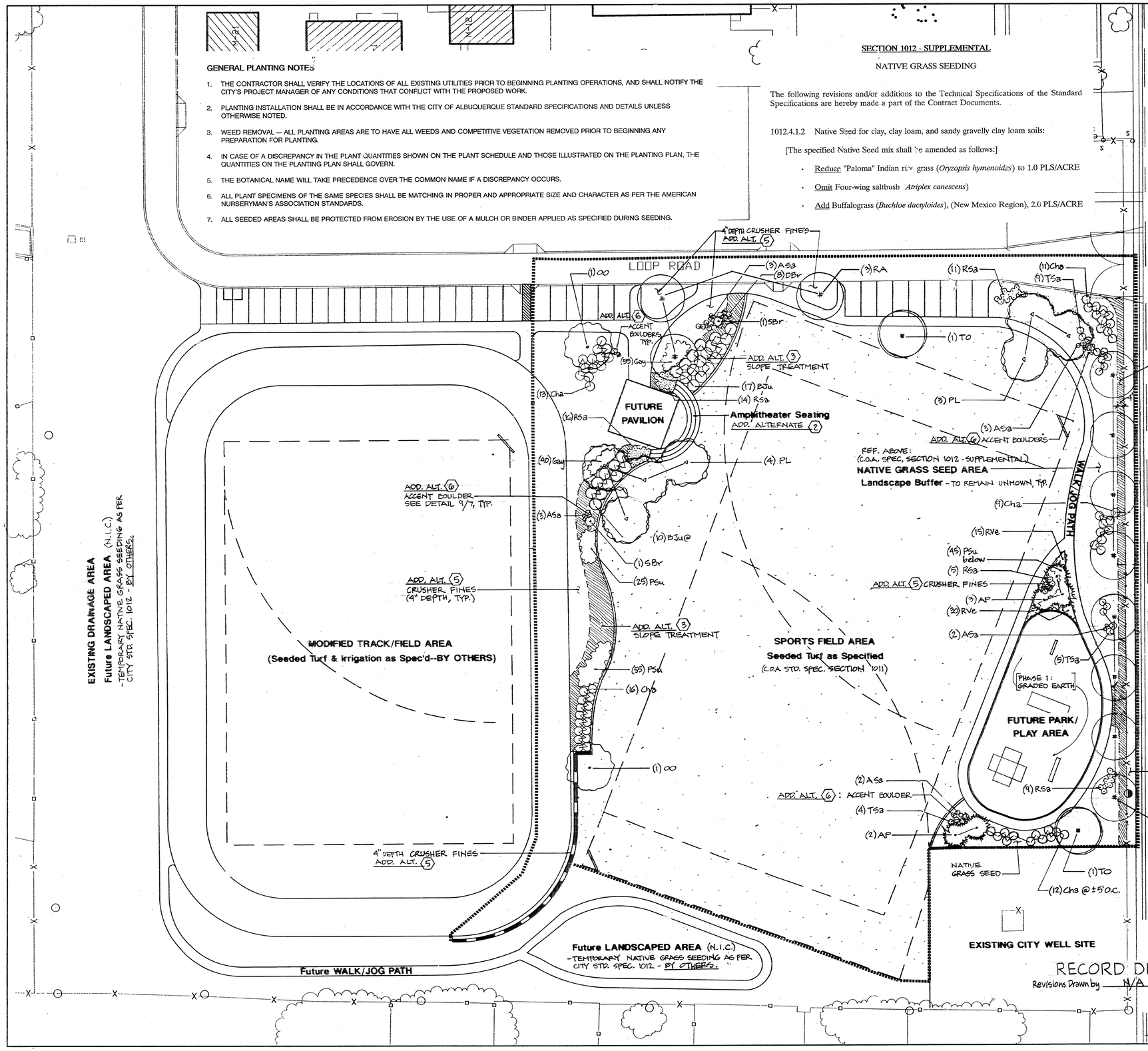
NATIVE GRASS SEEDING

The following revisions and/or additions to the Technical Specifications of the Standard Specifications are hereby made a part of the Contract Documents.

1012.4.1.2 Native Seed for clay, clay loam, and sandy gravelly clay loam soils:

[The specified Native Seed mix shall be amended as follows:]

- Reduce "Paloma" Indian ricegrass (*Oryzopsis hymenoides*) to 1.0 PLS/ACRE
- Omit Four-wing saltbush *Atriplex canescens*)
- Add Buffalograss (*Buchloe dactyloides*), (New Mexico Region), 2.0 PLS/ACRE



RECORD DRAWINGS
Revisions Drawn by N/A Date 5/19/97

SCALE: 1" = 30'

15' 30'
30' 0 60'

LEGEND

- LIMITS OF PHASE I LANDSCAPING/SEEDING
- NEW DECIDUOUS TREES (AS PER CITY STD. DWGS. 2713, 2714)
- NEW EVERGREEN TREES (AS PER CITY STD. DWGS. 2713, 2714)
- NEW SHRUB PLANTINGS (AS PER CITY STD. DWG. 2717)
- ADD. ALT. (6) SEE DETAIL NO. 9, SHEET 7. — ACCENT BOULDERS (8 TOTAL REQ'D: 4 @ ± 28" ROUGH DIA.; 4 @ ± 42" ROUGH DIA. — "RIVER BOULDERS" AS AVAIL. FROM ROCKY MOUNTAIN STONE CO., ALBUQUERQUE, N.M. OR APPROVED EQUAL.) SEE DETAIL 9/7.
- NEW SEEDED TURF AS SPEC'D (C.O.A. STD. SPEC. SECTION 1011)
- ADD. ALT. (3) SLOPE TREATMENT: INSTALL 4" DEPTH MIXTURE OF 1 PART STABILIZED CRUSHER FINES WITH 1 PART GRAY GRAVEL AS SPEC'D.

PLANTING SCHEDULE

KEY	PLANT NAME	QUANTITY	INSTALLED SIZE	REMARKS
TREES				
RA	**Fraxinus velutina 'Rio Grande'** Rio Grande/Fan-Tex Ash	11	2 1/2" cal, 24" box or B & B	
OO	**Maclura pomifera** Osage Orange	2	2" cal, 24" box or B & B	
AP	**Pinus eldarica** Afghan Pine	5	10'-12' ht, B & B	
TO	**Quercus texana** Texas Red Oak	2	2" cal, 24" box or B & B	
PL	**Robinia x ambigua 'Purple Robe'** Purple Robe Locust	7	2 1/2" cal, 24" box or B & B	
SHRUBS/GROUNDCOVERS				
TSa	**Artemesia filifolia** Threadleaf Sage	18	5 gallon	plant 4' o.c., typ.
DBr	**Baccharis pilularis** Dwarf Coyote Brush	8	1 gallon	plant 3' o.c., typ.
Cha	**Chrysothemnus nauseosus** Chamisa/Rubber Rabbitbrush	61	5 gallon	plant 5' o.c., typ.
BJu	**Juniperus sabina 'Broadmoor'** Broadmoor Juniper	27	5 gallon	plant ±7' o.c., typ.
RSa	**Perovskia atriplicifolia** Russian Sage	55	5 gallon	plant 40" o.c., typ.
PSu	**Rhus trilobata 'Prostrata'** Prostrate Threeleaf Sumac	125	5 gallon	plant 30" o.c., typ.
ASa	**Salvia greggii** Autumn Sage	13	1 gallon	plant 30" o.c., typ.
SBr	**Spartium junceum** Spanish Broom	2	5 gallon	
PERENNIALS				
Gay	**Liatris punctata** Gayfeather	95	1 gallon	plant 20" o.c., typ.
RVe	**Verbena hybrida** Raspberry Verbena	45	4" pots	plant 24" o.c., typ.

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

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SURVEY INFORMATION
FIELD NOTES

NO.	DATE	BY
N/A	1992	JMH

NO.	DATE	REVISIONS/REMARKS	BY

DESIGNED BY: GRJ, PBM DATE: 10/95
DRAWN BY: PBM DATE: 1/96
CHECKED BY: PBM, GRJ

CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DESIGN & DEVELOPMENT DIVISION

TITLE: MADISON MIDDLE SCHOOL
Planting Plan

Design Review Committee: P.G.B. 2/6/96
City Engineer Approval
Last Design Update | MO./DAY/YR. | MO./DAY/YR.

City Project No. 4451.92 | Zone Map No. G-20-Z | Sheet 5 Of 7

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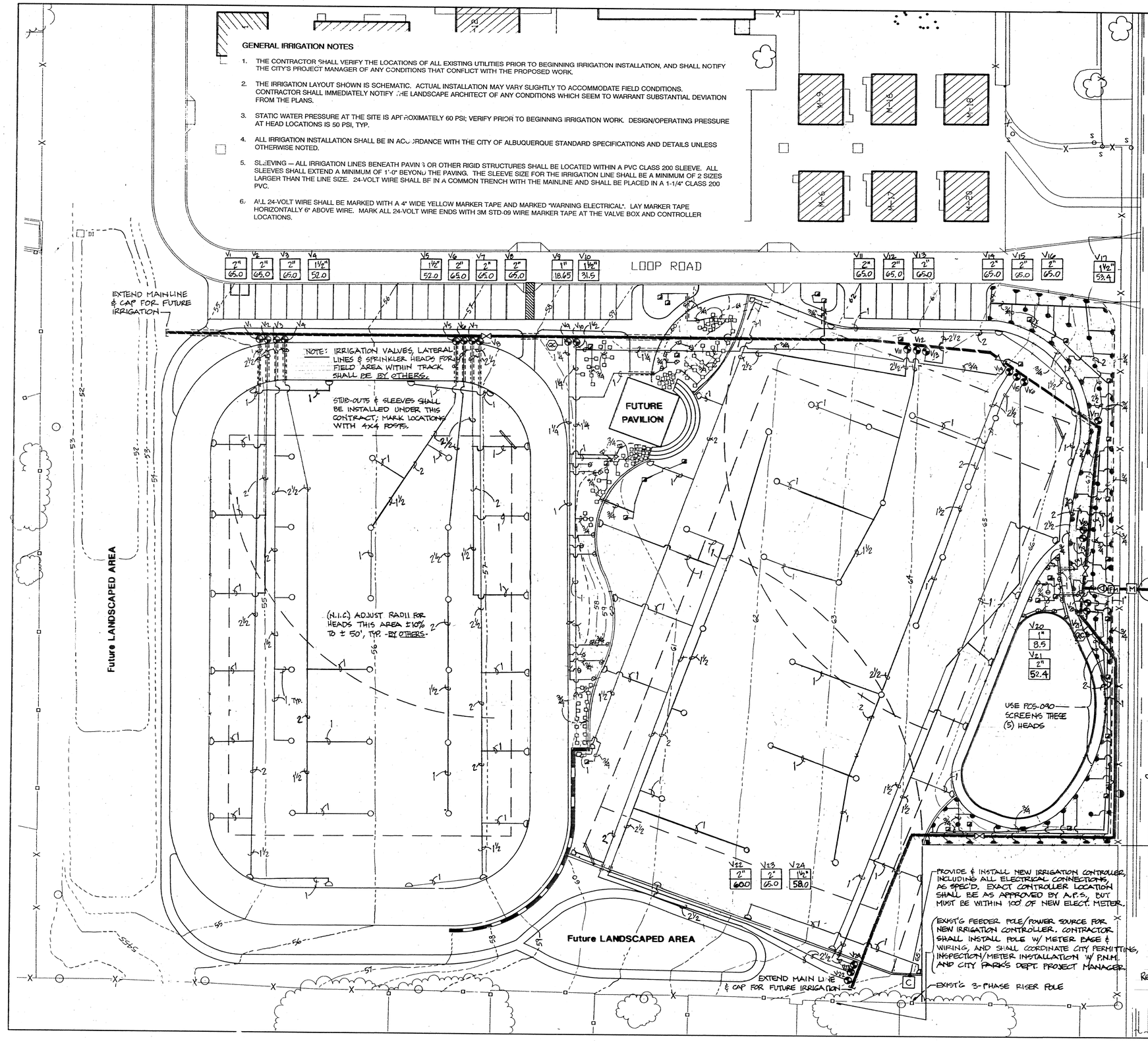
GENERAL IRRIGATION NOTES

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 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.



IRRIGATION LEGEND

SYMBOL	DESCRIPTION	DETAIL
M	New 2" Water Meter; City installed; box and pipe by Contractor	City Std. Dwg. 2637
FEBCO FM	2" FEBCO 765 pressure vacuum breaker backflow preventer with 2" Bermad 910-P-2 flow meter and control valve with pulse transmission in Brooks Box 1730 with locking cover	City Std. Dwg. 2702A
C	Motorola Toro Model #M5I-2T-SOR, MIR 5000 Irrinet 32-station controller; in Strong Box enclosure, with V-308 keypad board	Install as per Manf. instructions
	Gate valve/Isolation valve	City Std. Dwg. 2706
	Rainbird PEB Series automatic valve assembly. (Valve as indicated on drawings, in valve box.)	City Std. Dwg. 2703
	Valve Key Notation: Valve Size / Approximate gallons per minute	
	Toro 640 Series with #42 nozzle gear-driven pop-up sprinkler - 360° full circle (@ 50 PSI, TYP.) Toro 640 Series with #42 nozzle gear-driven pop-up sprinkler - part circles (@ 50 PSI, TYP.)	Detail No. 6, Sheet 7
	Rainbird 1806-15 series, 6" pop-up sprinklers with plastic MPR nozzles; PCS screens as required (@20 PSI, TYP.)	City Std. Dwg. 2709
	Rainbird 1806-12 series, 6" pop-up with PA-8S plastic shrub adapter (@ 30 PSI, TYP.)	City Std. Dwg. 2709
	Rainbird 1401 full circle pressure compensating bubbler, 0.5 gpm (@ 20-90 PSI, TYP.) RAINBIRD 1401 FULL CIRCLE PRESSURE COMPENSATING BUBBLER, 0.25 gpm (@ 20-90 PSI, TYP.)	For tree locations in seed/sod turf areas: Detail No. 7, Sheet 7; All other bubbler locations: reference City Std. Dwg. 2710
	2½" SDR-21 Class 200 PVC 1120 or 1220 pipe mainline	
	Schedule 40 PVC pipe lateral (size as indicated on plans)	
	Class 200 PVC pipe sleeve (2 sizes larger than pipe being sleeved)	
QC	Rainbird 33 DRC Quick-Coupling Valve	City Std. Dwg. 2708

RECORD DRAWINGS
Revisions Drawn by B. Mueller
Date 5/19/97

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SURVEY INFORMATION
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NO.	BY	DATE
N/A	JMA	1992

NO.	DATE	REVISIONS/REMARKS	BY

DESIGNED BY: GRJ, BGM DATE: 12/95
DRAWN BY: BGM DATE: 12/95
CHECKED BY: BGM DATE: 1/96

CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DESIGN & DEVELOPMENT DIVISION

TITLE: MADISON MIDDLE SCHOOL
Irrigation Plan

Design Review Committee: B.G.J. 2/5/96
City Engineer Approval
Last Design Update: MO./DAY/YR. MO./DAY/YR.

City Project No. 4451.92
Zone Map No. G-20-Z
Sheet 6 OF 7

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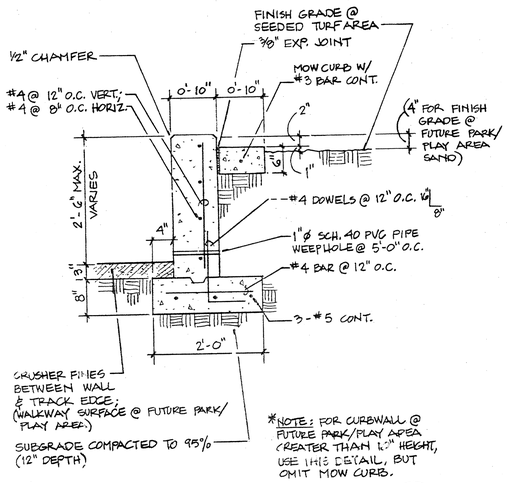
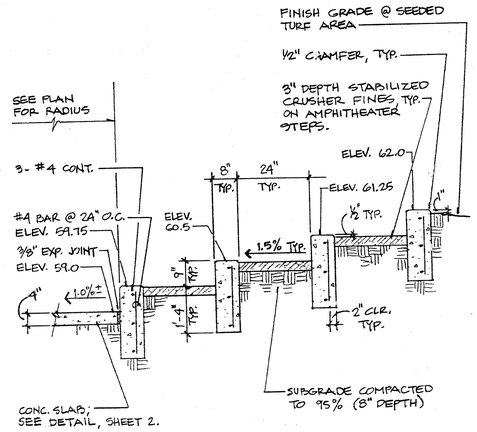
GENERAL NOTE:

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.)



RETAINING WALL W/ MOW CURB (1/7)

3/4" = 1'-0"



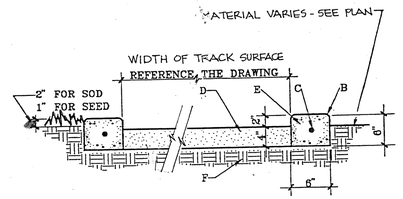
ADDITIVE ALTERNATE (2)

AMPHITHEATER SEATING @ PAVILION (2/7)

1/2" = 1'-0"

GENERAL NOTES:

1. CONTROL JOINTS SHALL BE PLACED AT 5' O.C..
2. EXPANSION JOINTS SHALL BE PLACED AT 20' O.C.. AND WHERE THE MOWSTRIP ABUTS ANOTHER HARD SURFACE.
3. THE CONCRETE MOWSTRIP MAY BE EXTRUDED, BUT SHALL MEET THE STANDARD OF THIS DETAIL.
4. A SAMPLE OF THE TRACK SURFACE SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.



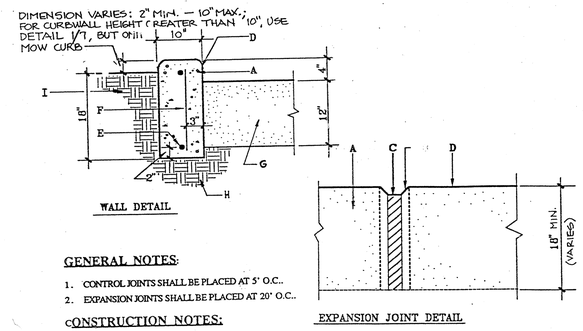
CONSTRUCTION NOTES:

A. SOD OR SEEDED TURF (REFERENCE THE DRAWING).
B. TOOLED EDGE. (TYP.)
C. #3 REBAR, HORIZONTAL AND CONTINUOUS.
D. CRUSHED SAND OR CINDERS, ROLLED FOR COMPACTION.
E. 4000 PSI CONCRETE MOWSTRIP WITH BRUSH FINISH. (SEE SECTION 101).
F. SUBGRADE COMPACTED TO 95%. (SEE SECTION 501).

NOTE: PROVIDE 1'-0" WIDE CURB OPENINGS @ 15' O.C. AS INDICATED ON SHEET 2 LAYOUT/DIMENSION PLAN.

CROSS SECTION @ RUNNING TRACK (3/7)

1" = 1'-0"



GENERAL NOTES:

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

CONSTRUCTION NOTES:

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

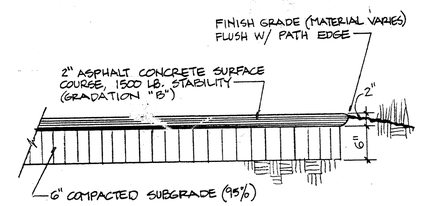
*NOTE: FOR CURBWALL HEIGHT GREATER THAN 10", USE DETAIL NO. 1/7 THIS SHEET, BUT OMIT MOW CURB.

FOR CURBWALL HEIGHT 10" OR LESS:

CONC. CURBWALL @ FUTURE PARK / PLAY AREA (4/7)

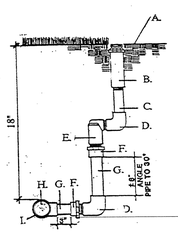
NTS

NOTE: SEE PLANS FOR PATH DIMENSIONS.



~~ASPHALT WALK~~/JOG PATH (5/7)

1" = 1'-0"



GENERAL NOTES

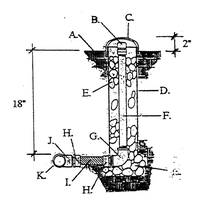
1. Swing joint assembly shall be Lasco-manuf. by Philips Industries Inc., Denver, Co., Dallas, Tx. et al.
2. All glue fittings shall be assembled & dry prior to assembly of threaded fittings.
3. No teflon tape or pipe dope shall be used.
4. All threaded fittings shall be hand tightened only & then loosened one full turn prior to installation in trench.
5. Lateral line pressure testing shall be completed prior to installation of swing joint assembly. Lateral line testing shall be accomplished by installing caps at the first male adapters downstream of the tees and ells.
6. Top of sprinkler head shall be set flush with finish grade.

CONSTRUCTION NOTES

A. Finish grade.
B. Sprinkler head (reference the drawing).
C. Sch 80 PVC toe nipple. Size length as required.
D. 90° elbow with Acme threads.
E. 90° street ell with Acme M&F threads.
F. Male adapter with Acme threads.
G. Sch 40 PVC pipe.
H. Sch 40 PVC SxSxT tee or SxT ell.
I. Lateral Pipe.

GEAR-DRIVEN SPRINKLER HEAD W/ SWING JOINT ASSEMBLY (6/7)

NTS



GENERAL NOTES

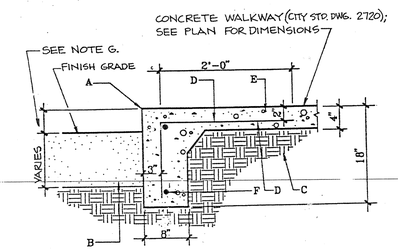
1. Lateral line pressure testing shall be completed prior to installation of flex pipe assembly. Lateral line testing shall be accomplished by installing a plug in the outlet of lateral line tees and ells.
2. FOR BUBBLER LOCATIONS IN NATIVE SEED AREAS OR PLANTING AREAS, REFERENCE CITY STD. DETAIL 2710.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

CONSTRUCTION NOTES

A. Finish grade.
B. Bubbler head (reference the Drawings).
C. 4" PVC slip cap. Do not weld.
D. 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.
E. 1/2" - 3/4" washed rock.
F. Sch. 80 PVC nipple.
G. Sch. 40 PVC threaded ell.
H. Sch. 40 PVC MIP adapter.
I. PVC flexible vinyl pipe, std., IPS from Agricultural Products, Inc., (818/768-3303).
J. Sch. 40 PVC SxSxT tee or SxT ell.
K. Lateral pipe.

BUBBLER HEAD @ TREE IN SEED/SOD TURF AREA (7/7)

NTS



GENERAL NOTES:

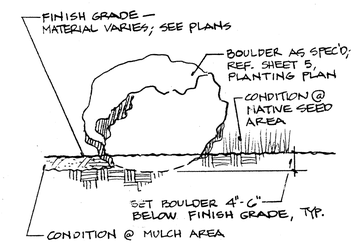
1. CONTROL JOINTS SHALL BE PLACED AT 5' O.C..
2. EXPANSION JOINTS SHALL BE PLACED AT 20' O.C..

CONSTRUCTION NOTES:

A. TOOLED EDGE, 1/2" CHAMFER.
B. MATERIAL VARIES - SEE PLAN.
C. SUBGRADE COMPACTED TO 95%. (SEE SECTION 501).
D. #4 REBAR AT 12" O.C..
E. 4000 PSI CONCRETE WITH BRUSH FINISH. (SEE SECTION 101).
F. #4 REBAR, HORIZONTAL AND CONTINUOUS, TOP & BOTTOM.
G. DIMENSION VARIES:
- 4" FOR WALK EDGE ADJACENT TO PLAY AREA;
- 6" MAX. FOR WALK EDGE ADJACENT TO SIDES OF PARKING SPACES;
- 1" MAX. FOR WALK EDGE ADJACENT TO ENDS OF PARKING SPACES.

TYP. CONCRETE WALKWAY W/ TURN-DOWN EDGE (8/7)

1" = 1'-0"



ADDITIVE ALTERNATE (6)

ACCENT BOULDER INSTALLATION (9/7)

NTS

RECORD DRAWINGS

Revisions Drawn by N/A Date 3/19/97

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

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BENCH MARK

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FIELD NOTES

NO.	BY	DATE

STATE OF NEW MEXICO — REGISTERED LANDSCAPE ARCHITECT

CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DESIGN & DEVELOPMENT DIVISION

TITLE: MADISON MIDDLE SCHOOL
Site / Landscape Details

Design Review Committee: P.G.J. 2/5/96
City Engineer Approval
Last Design Update: MO./DAY/YR. MO./DAY/YR.

City Project No. 4451.92
Zone Map No. G-20-Z
Sheet 7 Of 7