

LEGAL DESCRIPTION

A PORTION OF RIO GRANDE PARK

DRAINAGE NOTES

THE PROJECT IS LOCATED WITHIN RIO GRANDE PARK AT 1440 IRON AVE SW. THE PROPOSED IMPROVEMENTS INCLUDE CONSTRUCTION OF A CHILD CARE BUILDING, A PLAYGROUND AND A PAVED PARKING AREA.

AS SHOWN ON THE FLOOD INSURANCE RATE MAP (FIRM) FOR THE CITY OF ALBUQUERQUE, NEW MEXICO, PANEL 28 OF 50, COMMUNITY PANEL NO. 350002 0028 C PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) AND DATED OCTOBER 14, 1983, THE SITE LIES IN ZONE B AND IS NOT IN A 100-YEAR FLOOD HAZARD AREA.

THE EXISTING SITE IS APPROXIMATE LEVEL; RAINFALL PONDS ONSITE AND THERE ARE NO DEFINED OR DISCERNABLE FLOWLINES AND NO RAINFALL RUNOFF FLOWS ONSITE FROM OFFSITE AREAS.

THE EXISTING ELEVATIONS AND TOPOGRAPHY SHOWN ON THIS PLAN WERE PREPARED BY THE CITY OF ALBUQUERQUE.

AN INVESTIGATION OF THE SITE BY RED MOUNTAIN ENGINEERS, INC. INDICATES THAT THE TOPOGRAPHY IS ACCURATE AND THAT NO FILL OR EXCAVATION HAS TAKEN PLACE SINCE THE SURVEY WAS PERFORMED.

RUNOFF CALCULATIONS

THE FOLLOWING CALCULATIONS WERE PERFORMED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM) VOLUME 2, DESIGN CRITERIA, SECTION 22.2 HYDROLOGY, DATED JANUARY 1993.

ZONE ATLAS PAGE: K13
PRECIPITATION ZONE: 2.27
6-HOUR PRECIPITATION, P(360) 100-YEAR:

PRE-DEVELOPMENT CONDITION:

LAND TREATMENT	C	A (SF)	A (ACRE)	Cx(A)
A (UNDISTURBED)	0.31	23,200	0.53	0.17
B (LANDSCAPED)	0.62	0	0.00	0.00
C (COMPACTED SOIL)	0.62	0	0.00	0.00
D (IMPERVIOUS)	0.93	0	0.00	0.00
TOTAL:		23,200	0.53	0.17

WEIGHTED C= SUM(CxA)/SUM(A) 0.31
TIME OF CONCENTRATION (HR), TC= 0.17
RAINFALL INTENSITY (INCHES/HOUR), I= 6.06
PEAK DISCHARGE (CFS), Q(100)=CIA= 1.0
EXCESS PRECIPITATION, E= 0.28
BASE TIME, TB= 0.32
TIME TO PEAK, TP= 0.25
DURATION OF PEAK=0.25xAD/AT= 0.00
VOLUME OF DISCHARGE (CUBIC FEET)= 0.2

POST-DEVELOPMENT CONDITION:

LAND TREATMENT	C	A (SF)	A (ACRE)	Cx(A)
A (UNDISTURBED)	0.31	0	0.00	0.00
B (LANDSCAPED)	0.45	14,000	0.32	0.14
C (COMPACTED SOIL)	0.62	0	0.00	0.00
D (IMPERVIOUS)	0.93	9,200	0.21	0.20
TOTAL:		23,200	0.53	0.34

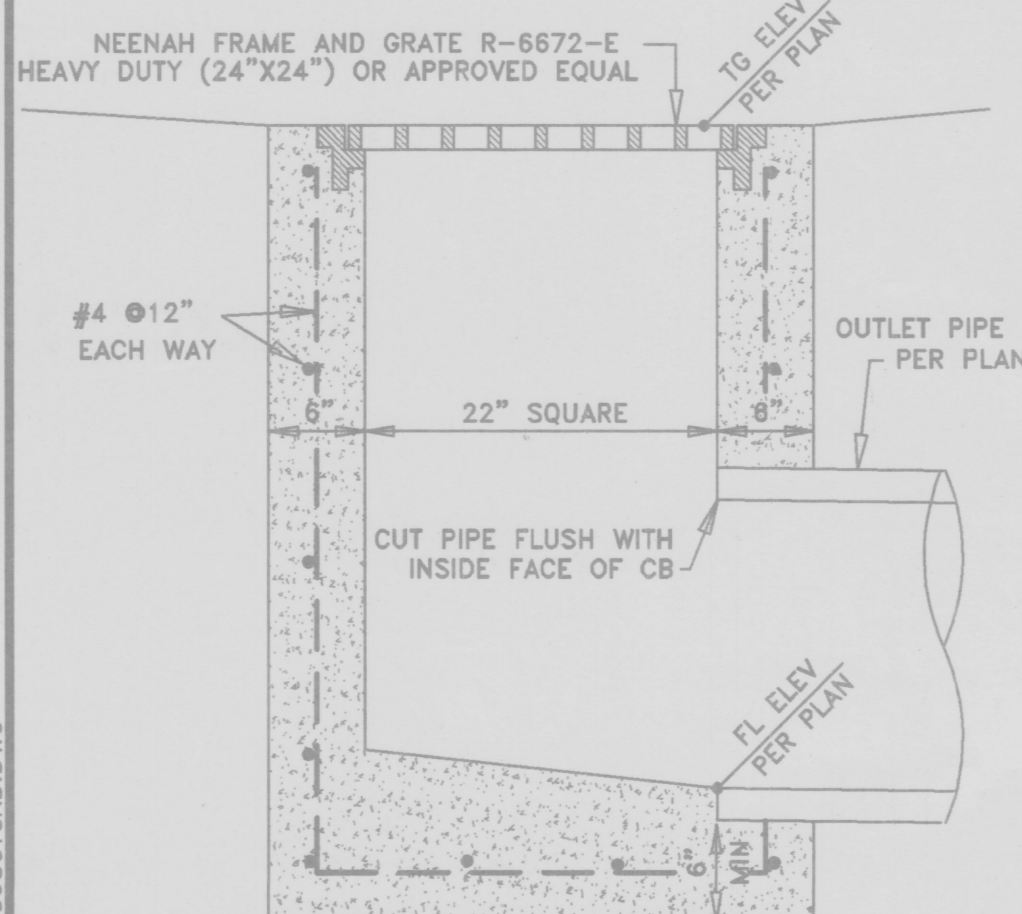
WEIGHTED C= SUM(CxA)/SUM(A) 0.64
TIME OF CONCENTRATION (HR), TC= 0.17
RAINFALL INTENSITY (INCHES/HOUR), I= 6.06
PEAK DISCHARGE (CFS), Q(100)=CIA= 2.1
EXCESS PRECIPITATION, E= 1.31
BASE TIME, TB= 0.61
TIME TO PEAK, TP= 0.22
DURATION OF PEAK=0.25xAD/AT= 0.10
VOLUME OF DISCHARGE (CUBIC FEET)= 1.2

REQUIRED PONDING VOLUME (CUBIC FEET) 1.0

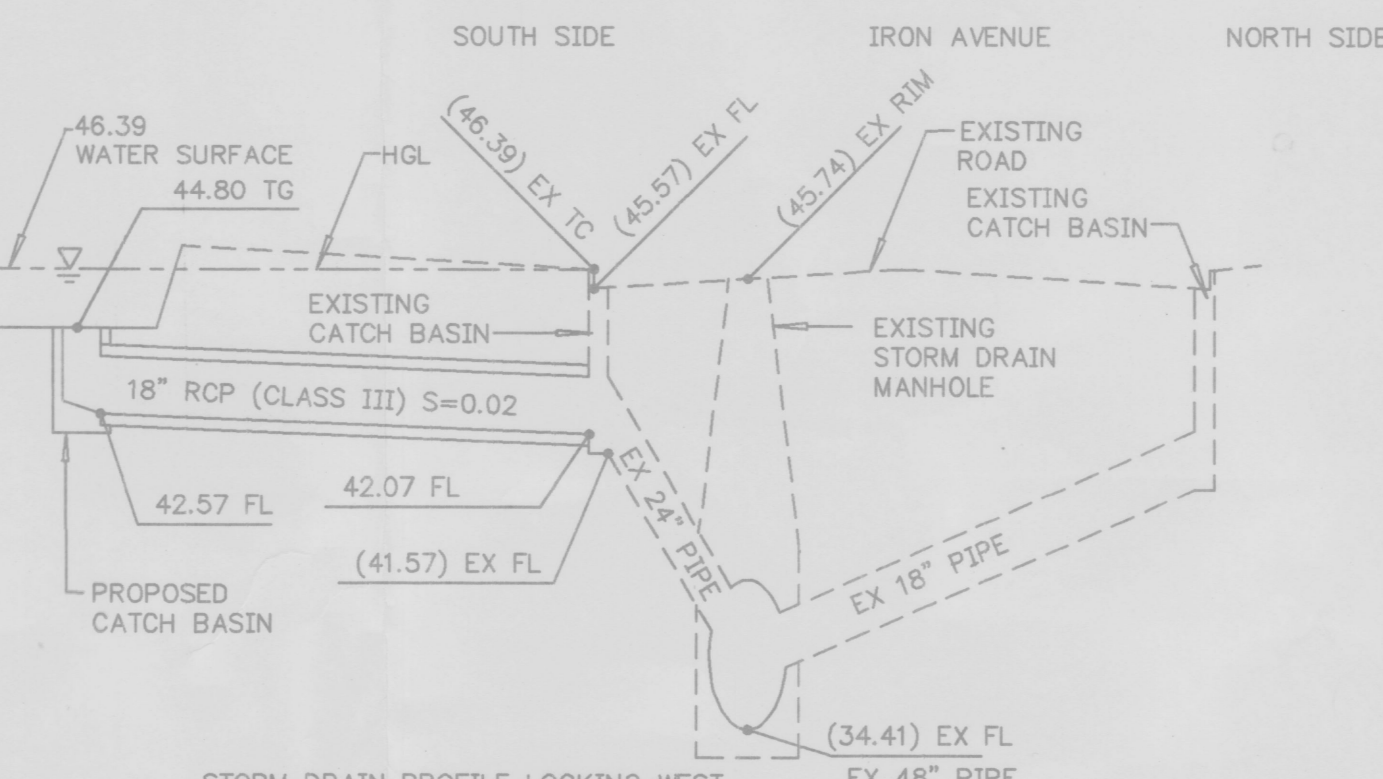
PONDING AND DISCHARGE

THE EXISTING STORM DRAIN IN IRON AVENUE FLOWS FULL DURING STORM CONDITIONS AND THE HYDRAULIC GRADE LINE AT THE EXISTING DRAINAGE INLET IN IRON AVENUE IS ASSUMED TO BE AT THE TOP OF CURB.

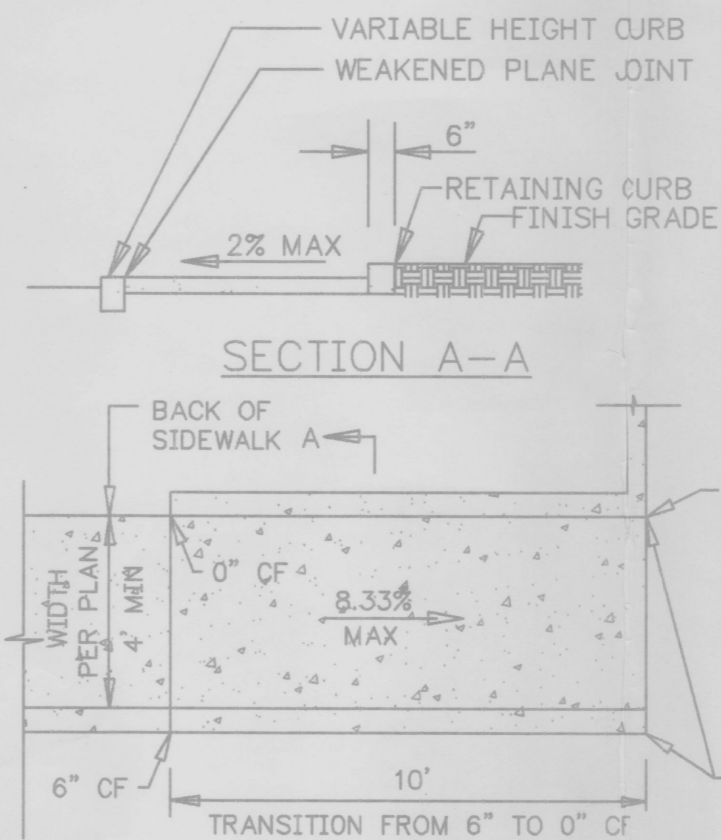
THE SITE WILL BE GRADED TO DRAIN TO AN ONSITE CATCH BASIN; RUNOFF WILL POND AT THE CATCH BASIN UNTIL THE HYDRAULIC GRADE LINE IN THE EXISTING STORM DRAIN FALLS AND ALLOWS THE POND TO DRAIN. THE PROPOSED POND HAS A VOLUME OF 7.6 CUBIC FEET, A MAXIMUM DEPTH OF 1.7 FEET.



8 24"x24" CATCH BASIN
SCALE: 1" = 1'



STORM DRAIN PROFILE LOOKING WEST
SCALE: HORIZ 1"=10'
VERT 1"=5'



A ACCESS RAMP
SCALE: 1"=4'

LEGEND

— OH OVERHEAD POWER LINE
— SAS SANITARY SEWER LINE
— SD STORM DRAIN LINE
— W WATER LINE
— GAS GAS LINE
— R/W RIGHT-OF-WAY LINE
— CH CHAIN LINK FENCE
— DC DESIGN CONTOUR
— RC ROCK CURB
— EB EDGE OF BUILDING
— FH FIRE HYDRANT
— EE EXISTING ELEVATION
— PE PROPOSED ELEVATION

AB AGGREGATE BASE
AC ASPHALT CONCRETE
CC CONCRETE
CSP CORRUGATED STEEL PIPE
EP EDGE OF PAVEMENT
EX EXISTING
FG FINISH GRADE
FL FLOWLINE
FS FINISH SURFACE
GB GRADE BREAK
NG NATURAL GRADE
R RADIUS
S SLOPE
TC TOP OF CURB

CONSTRUCTION NOTES:

1. CONSTRUCT CURB BREAK
2. SEE ARCHITECTURAL PLANS FOR FENCE DETAILS
3. CONSTRUCT 6"x14" HEADER CURB SIMILAR TO CITY DWG 2415
4. CONSTRUCT 4" THICK CONCRETE SIDEWALK
5. CONSTRUCT DRIVE PAD PER CITY DWG 2425
6. CONSTRUCT 3" AC PAVEMENT PER CITY DWG 2405
7. PROTECT EXISTING TREE
8. CONSTRUCT 12" CATCH BASIN; SEE DETAIL, THIS SHEET
9. CONSTRUCT 18" RCP (CLASS III); SEE PROFILE THIS SHEET
10. CONNECT TO JOIN EXISTING STORM DRAIN INLET SEE CITY STANDARD DETAIL NO. 2237

STAKING NOTE:

INFORMATION SHOWN IS FOR THE GRADING AND DRAINAGE PLAN ONLY, AND NOT TO BE USED FOR STAKING PURPOSES. SEE SITE PLAN FOR ACTUAL LOCATION OF IMPROVEMENTS.

TOPOGRAPHY NOTE:

ALL EXISTING TOPOGRAPHIC SURVEY DATA SHOWN ON THESE PLANS HAS BEEN OBTAINED BY OTHERS. RED MOUNTAIN ENGINEERS, INC. HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION, AND MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR.

BENCH MARK:

LOCATION: BM NO. 6-K13
DESCRIPTION: 3" BWH BRASS CAP SET IN CONCRETE FLUSH WITH GROUND AND STAMPED "6-K13" (SDL 1929)
ELEVATION: 4956.95 FT. (1510.88 m)

UTILITY NOTES:

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THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING ABOVE AND UNDERGROUND UTILITIES, OR EXISTING PIPELINES. THE ENGINEER MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM HIMSELF OF THE LOCATION OF ANY EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES, IN AND 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 HIS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES. THE CONTRACTOR IS URGED TO COMPLY WITH STATE STATUTES, PERTAINING TO THE LOCATION OF THESE LINES, IN PLANNING AND CONDUCTING EXCAVATION WORK.

CITY OF ALBUQUERQUE

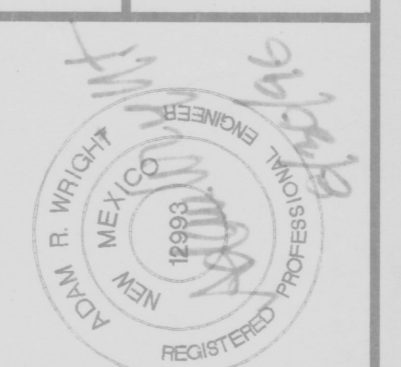
DRAINAGE FACILITIES WITHIN THE CITY RIGHT OF WAY

NOTICE TO CONTRACTOR:

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

APPROVAL:	DESIGN:	FILE NAME:	DATE:	SCALE:
DESIGN REVIEW COMMITTEE:	CITY ENGINEER APPROVAL:	96.301	19 JUL 96	1" = 20'
City Project No. 5183.91	Zone Map No. K-13	Sheet C1	Of 25	

PROJECT: BARELAS CHILD CARE CENTER
SHEET TITLE: GRADING AND DRAINAGE PLAN



REVISION	DATE	BY	APP'D
1	19 JUL 96	ARW	ARW
2	19 JUL 96	WLV	WLV

SHEET No. C-1
OF 25 1

Red Mountain Engineers, Inc.
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P.O. Box 10115
Albuquerque, NM 87110
Phone: (505) 473-7373
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Engineers • Surveyors • Planners
4600 C Montebello Blvd. NE
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Phone: (505) 889-8002

A PORTION OF RIO GRANDE PARK

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ZONE ATLAS PAGE: K13
PRECIPITATION ZONE:
6-HOUR PRECIPITATION P(360) 100-YEAR: 227

LAND TREATMENT	C	A (SF)	A (ACRE)	C/A
A (UNDISTURBED)	0.31	23,200	0.53	0.17
B (LANDSCAPED)	0.62	0	0.00	0.00
C (COMPACTED SOIL)	0.62	0	0.00	0.00
D (IMPERVIOUS)	0.93	0	0.00	0.00
TOTAL		23,200	0.53	0.17

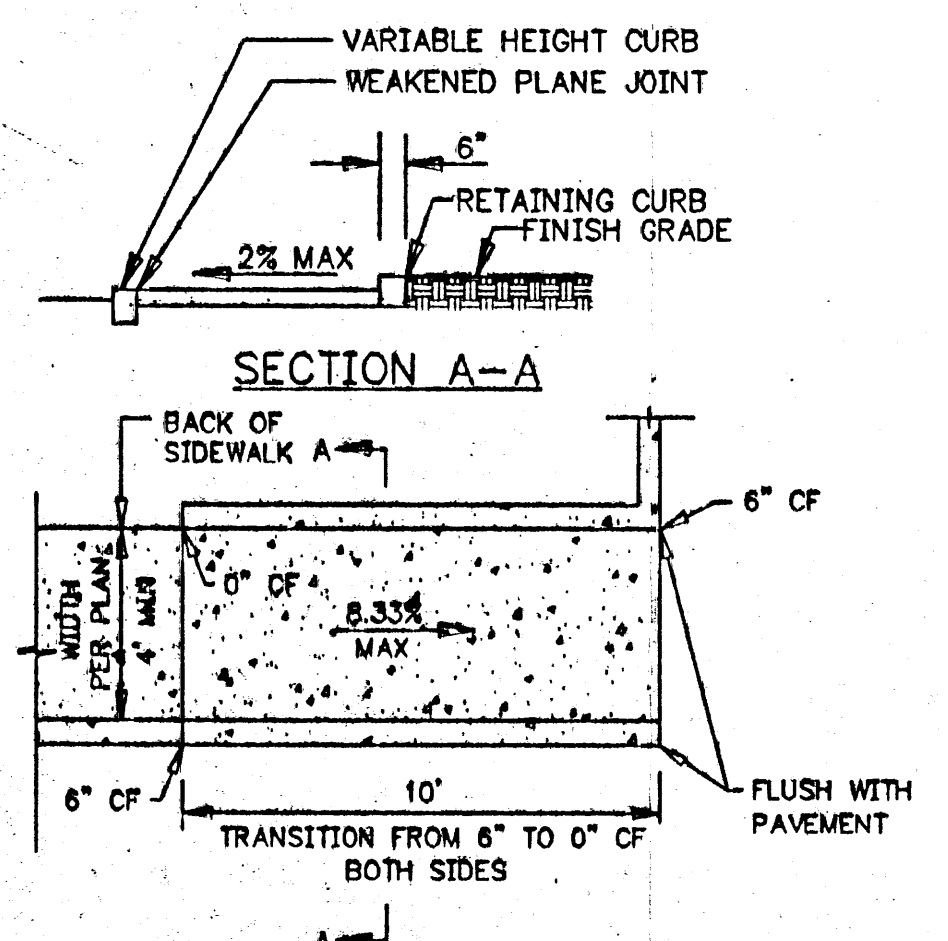
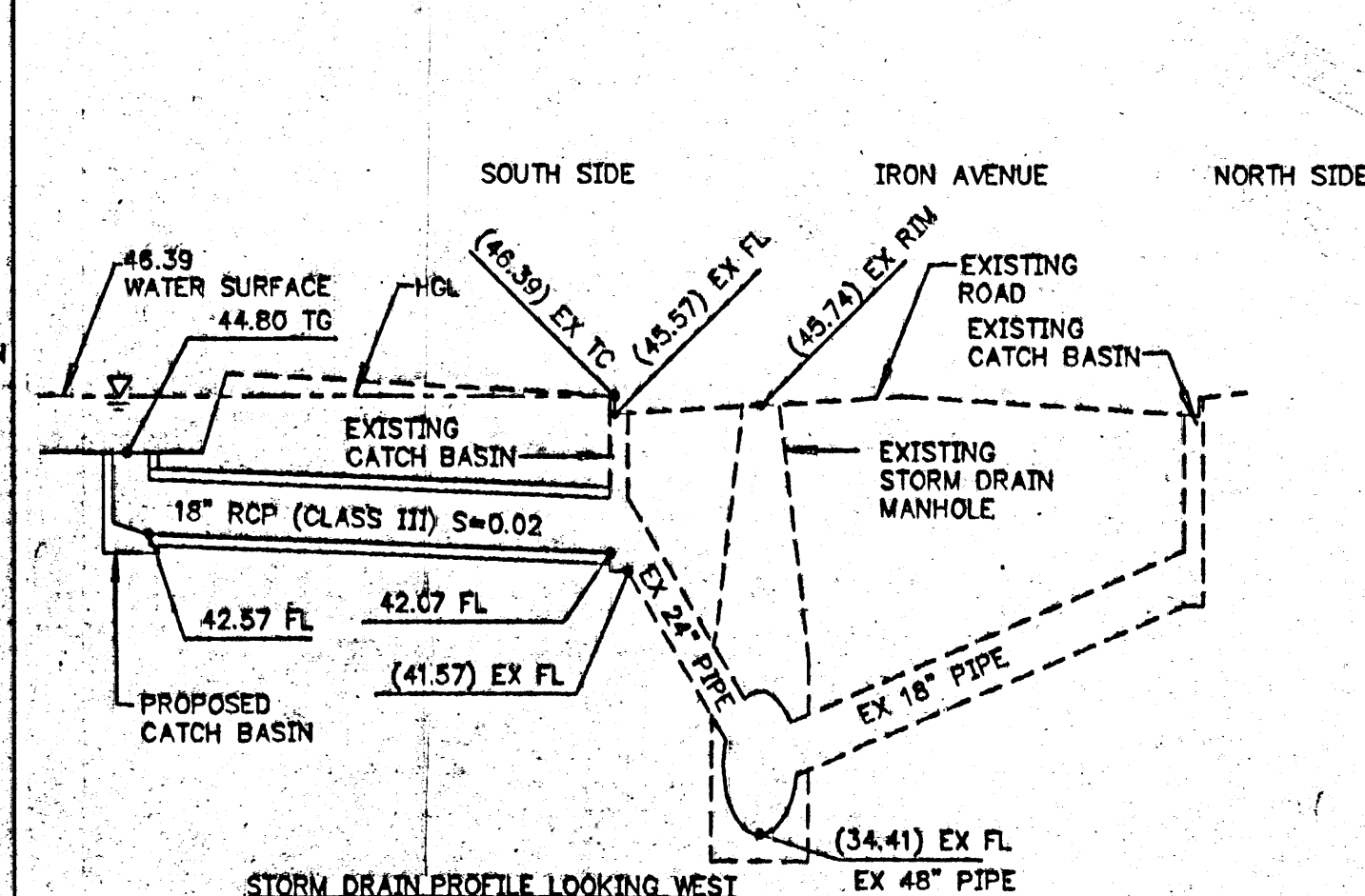
WEIGHTED C= SUM(C*IA)/SUM(A)	0.31
TIME OF CONCENTRATION (HR), TC=	6.17
RAINFALL INTENSITY (INCHES/HOUR), I=	0.08
PEAK DISCHARGE (CFS), Q(100)=CIA=	1.0
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BASE TIME, TB=	0.32
TIME TO PEAK, TP=	0.25
DURATION OF PEAK=0.25*AD/AT=	0.00
VOLUME OF DISCHARGE (CUBIC FEET)=	0.2

LAND TREATMENT	C	A (SF)	A (ACRE)	CxA
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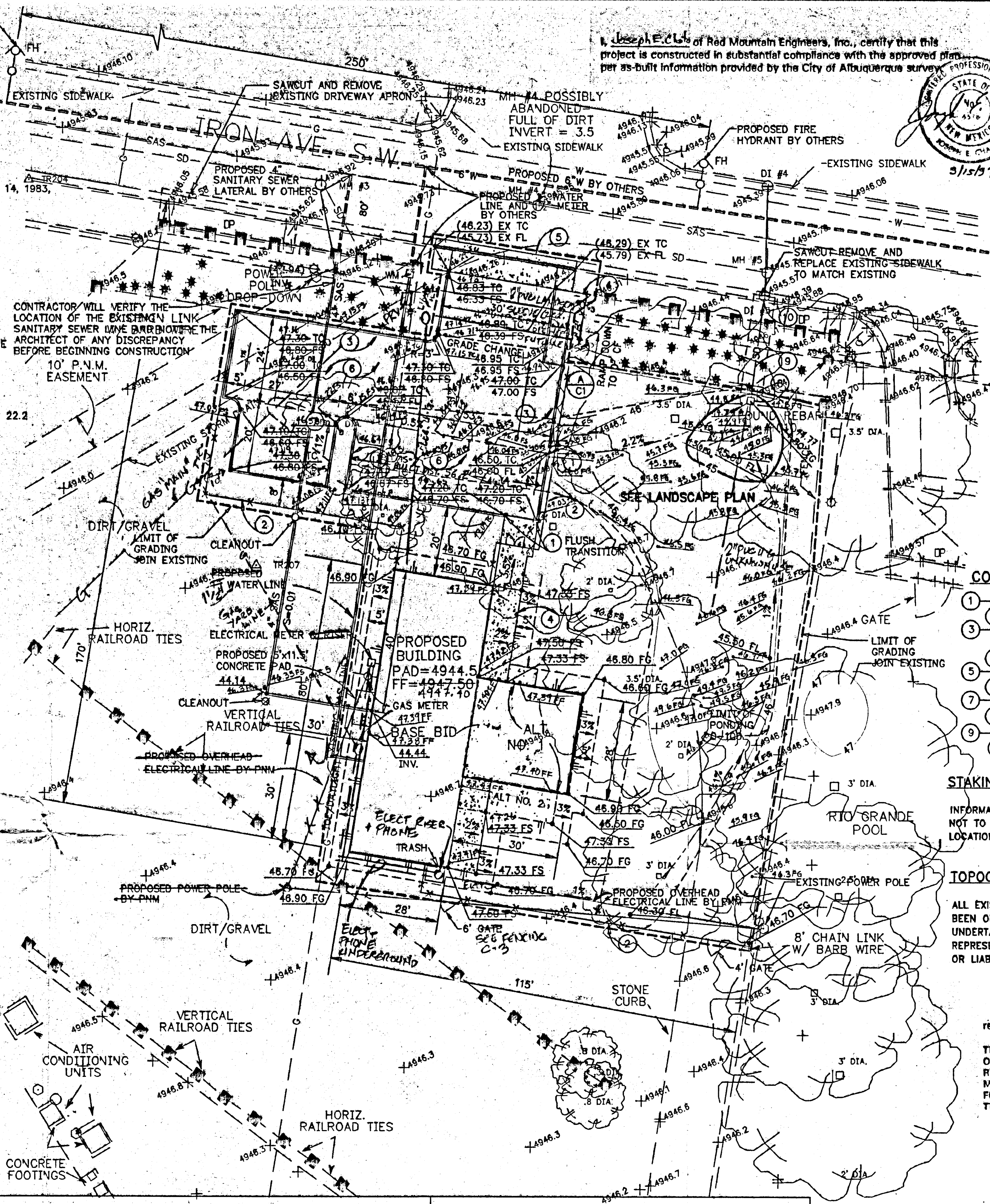
WEIGHTED C=SUM(CX)/SUM(A)	0.64
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I, Joseph E. Cio of Red Mountain Engineers, Inc., certify that this project is constructed in substantial compliance with the approved per as-built information provided by the City of Albuquerque survey



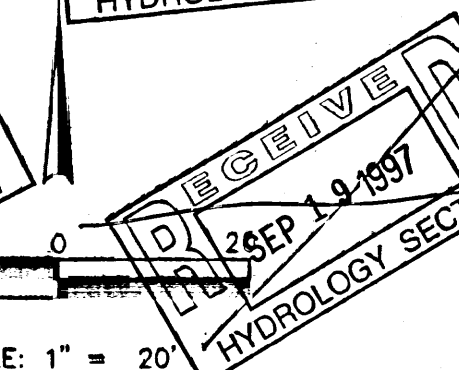
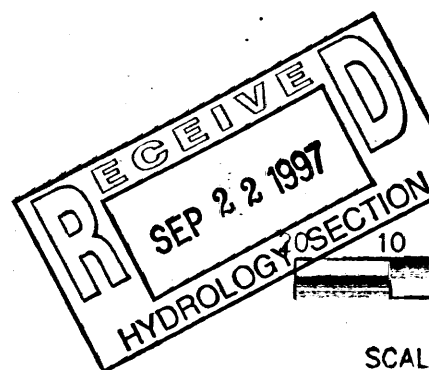
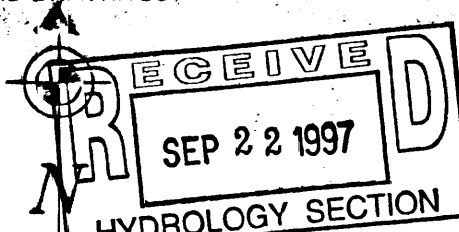
- 1 — CONSTRUCT CURB BREAK
- 2 — SEE ARCHITECTURAL PLANS FOR FENCE DETAILS
- 3 — CONSTRUCT 6"x14" HEADER CURB SIMILAR TO CITY DWG 2415
- 4 — CONSTRUCT 4" THICK CONCRETE SIDEWALK
- 5 — CONSTRUCT DRIVE PAD PER CITY DWG 2425
- 6 — CONSTRUCT 3" AC PAVEMENT, PER CITY DWG 2425
- 7 — PROTECT EXISTING TREE 604 18" COMPACTED SURFACE
- 8 — CONSTRUCT 12" CATCH BASIN; SEE DETAIL, THIS SHEET
- 9 — CONSTRUCT 18" RCP (CLASS III); SEE PROFILE THIS SHEET
- 10 — CONNECT TO JOIN EXISTING STORM DRAIN INLET SEE CITY STANDARD DETAIL NO. 2237.

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revisions drawn by: [Signature] date: July 1, 1971

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OR COMPONENT, NOR MANNER OF CONSTRUCTION. THE ARCHITECT WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THESE RECORD DRAWINGS.



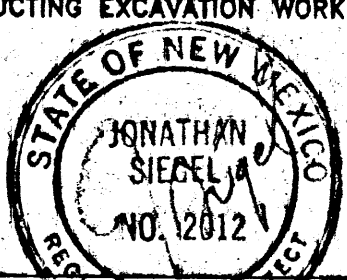
—OH— OVERHEAD POWER LINE
 —SAS— SANITARY SEWER LINE
 —SD— STORM DRAIN LINE
 —W— WATER LINE
 —G— GAS LINE
 —R/W— RIGHT-OF-WAY LINE
 —O— CHAIN LINK FENCE
 ——— DESIGN CONTOUR
 ——— ROCK CURB
 ——— EDGE OF BUILDING
 ○— FIRE HYDRANT
 (44.65) EXISTING ELEVATION
 44.65 PROPOSED ELEVATION

AGGREGATE BASE
ASPHALT CONCRETE
CONCRETE
CORRUGATED
EDGE OF PAV
EXISTING
FINISH GRADE
FLOWLINE
FINISH SURF
GRADE BREAK
NATURAL GRADE
RADIUS
SLOPE
TOP OF CURB

<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>ELEVATION</u>
NORTH OF THE INTERSECTION OF TINGLEY DRIVE AND ALCALDE PLACE; 34' NE FROM THE CENTERLINE OF TINGLEY DR. 30.8' NW FROM THE CENTERLINE OF ALCALDE PL. 55' SW FROM THE CENTERLINE OF RIVERSIDE DRAIN AND 5.7' NW FROM A POWER POLE.	3" BWH BRASS CAP SET IN CONCRETE FLUSH WITH GROUND AND STAMPED "6-K13"	4956.95 FT. (1510.88 m) (SDL 1929)

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APPROVALS	DESIGN	TITLE:	BARELAS AREA CHILD CARE CENTER 1400 IRON AVENUE SW ALBUQUERQUE, NEW MEXICO	MAP NO.	K-1
DESIGNED BY		CITY ENGINEER APPROVAL		DWG. / DAY / YR.	
CHECKED BY		LOAD DESIGN UPGRADE		DWG. / DAY / YR.	
DATE OF SET					
Design Review Committee					
DESIGN REVIEW COMMITTEE					
City Project No.		Zone Map No.	Sheet	Of	
518391		K-13	C1	25	

BARELAS CHILD CARE CENTER

GRADING AND DRAINAGE PLAN

PROJECT:

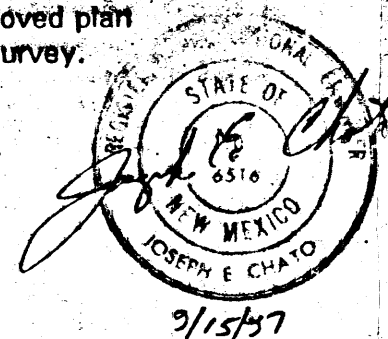
DAVID R. WRIGHT

[illegible]

PROJECT:	96301	DESIGN:	ARW
FILE NAME:	96301GRD.DWG	CHECKED:	ARW

SHEET N
C-1
OF 25

I, Joseph E. Ch... of Red Mountain Engineers, Inc., certify that this project is constructed in substantial compliance with the approved plan per as-built information provided by the City of Albuquerque survey.



NOTE: THIS LANDSCAPE DRAWING INCLUDES:
ALTERNATE #3: NEW LANDSCAPING
AND PLAYGROUND AREA.

SEE ARCHITECTURAL SITE PLAN (SHEET C-3) FOR
BASE BID LANDSCAPING

(ALL ALTERNATES TAKEN & CONSTRUCTED)

LANDSCAPE MAINTENANCE WILL BE BY:
DEPARTMENT OF FAMILY AND COMMUNITY SERVICES
CITY OF ALBUQUERQUE

KEYED NOTES

- EXISTING COTTONWOOD TO REMAIN, SIZE AS NOTED ON PLAN.
- EXISTING 8' CHAIN LINK FENCE TO REMAIN.
- REMOVE EXISTING COTTONWOOD TREE.
- CRUSHER FINES PATH WITH CONCRETE EDGE AS PER C.O.A. STD. DWG. 2721. ARCHITECT TO FIELD-APPROVE LAYOUT PRIOR TO CONSTRUCTION. (2' WIDE, 1" DEEP, 1/2" SLOPE)
- CONCRETE WALK WITH TURN-DOWN EDGE ADJACENT TO SAND PLAY AREA. REF. SIM. C.O.A. STD. DWG. 2723. ARCHITECT TO FIELD-APPROVE LAYOUT PRIOR TO CONSTRUCTION.
- NOTE DELETED
- EXISTING SOIL TO REMAIN, GRADED FOR DRAINAGE.
- 2" 1" ROUGH DIAMETER ROCKS SET INTO GROUND (4" DEPTH BELOW GRADE).
- REMOVE EXISTING STONE CURB.
- DEPRESS CONCRETE WALK, CRUSHER FINES AND CONC. CURBS AT EXIST. FLOW LINE - SEE SHEET C-1.
- REFER TO C-1 FOR SLOPE DRAINAGE.

PLANTING SCHEDULE - BARELAS CHILDCARE CENTER

PLANT BOTANICAL NAME PLANT COMMON NAME	QUANTITY	INSTALLED SIZE	REMARKS
TREES/SHRUBS			
Forestiera neomexicana New Mexico Olive	12	5 gallon	Multi-stem
Rhus typhina Staghorn Sumac	7	5 gallon	
TURFGRASS SEED			
Festuca muelleri Mueller's Fescue	2,000 S.F.		Drill seed at 5 lbs. per 1,000 sq. ft. May substitute F. ovina: Sheep Fescue.

BARELAS CHILDCARE CENTER
IRRIGATION LEGEND

SYMBOL	DESCRIPTION	DETAIL
[M]	New Water Meter; reference Mechanical Plans	
[V]	Febco Atmospheric Vacuum Breaker Backflow Preventer, size as noted on drawings	Install as per Manf. Instructions
[C]	Rainbird RC-4C 4-Station controller; wall mounted as shown on drawings	Install as per Manf. Instructions
[X]	Gate valve/isolation valve	City Std. Dwg. 2706
[G]	Rainbird PEB Series automatic valve assembly. (Valve as indicated on drawings, in valve box.)	City Std. Dwg. 2703
[K]	Valve Key Notations Valve Size Approximate gallons per minute	
[R]	Rainbird 1806 series, 6" pop-up, [10' RADIUS] (1.5 m/hr. @ 20 PSI)	City Std. Dwg. 2709
[B]	Rainbird 1402 full circle pressure compensating bubbler, 0.5 gpm.	City Std. Dwg. 2710
[L]	Schedule 40 PVC pipe lateral (size as indicated on plans)	
[S]	Class 200 PVC pipe sleeve (2 sizes larger than pipe being sleeved)	
[Q]	Rainbird 33 DRC Quick-Coupling Valve	City Std. Dwg. 2708

LANDSCAPE AREA ANALYSIS

SITE AREA	20,472
BUILDING AREA ALL PHASES (including porches)	3,290
LANDSCAPING REQUIRED	2,577
LANDSCAPING PROVIDED	11,359

BENCHMARK 6.1-13 4756.75 ELEV.

Design Review Committee	City Engineer Approval	PLANNING	PLANNING
City Project No. 5183.91	Zone Map No. K-13.2	Sheet C-4	Of 25



SIEGEL DESIGN
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**BARELAS AREA
CHILD CARE CENTER**
for: City of Albuquerque
Department of Family and Community Services
Albuquerque, New Mexico

PROJECT NO.
ARCH: 9519

DATE REV
21 AUG 96

LANDSCAPE
PLAN - ALT #3

C-4
OF 25

LANDSCAPE PLAN - ALT. #3

1"=10'
0 5 10 15 20'