CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director

Mayor Timothy M. Keller

February 11, 2020

Verlyn Miller
Miller Engineering Consultants, Inc.
3500 Comanche NE
Albuquerque, NM 87107

RE: **Dennis Chavez Community Center Ph 2 addition**
715 Kathryn SE
Grading and Drainage Plan Stamp Date: 2/4/20
Hydrology File: L14D013

Dear Mr. Miller,

Based on the submittal received on 2/6/20, the above-referenced Grading and Drainage Plan is approved for Building Permit.

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Prior to Certificate of Occupancy (For Information):

1. Engineer's Certification, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required.

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Dennis Chavez Community Center Building Permit #: _____ Hydrology File #: L14D013

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: Dennis Chavez Park, Tract A in Book: 2001C, Page 26. January 22, 2001

City Address: 715 Kathryn Ave. SE, Albuquerque, NM 87102

Applicant: Miller Engineering Consultants, Inc. Contact: Verlyn Miller

Address: 3500 Comanche NE, Bldg. F, Albuquerque, NM 87107

Phone#: 505-888-7500 Fax#: 505-888-3800 E-mail: vmiller@mecnm.com

Other Contact: Dyron Murphy Architects Contact: Oscar Tovar

Address: 4505 Montbel Place NE, Albuquerque, NM 87107

Phone#: 505-830-0203 Fax#: _____ E-mail: otovar@dm-architects.com

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) _____ RESIDENCE _____ DRB SITE X ADMIN SITE

IS THIS A RESUBMITTAL? X Yes _____ No

DEPARTMENT _____ TRANSPORTATION X HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

____ ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
____ CONCEPTUAL G & D PLAN
X GRADING PLAN
____ DRAINAGE REPORT
____ DRAINAGE MASTER PLAN
____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
____ ELEVATION CERTIFICATE
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)
____ STREET LIGHT LAYOUT
____ OTHER (SPECIFY) _____
____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

X BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY

____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
____ SITE PLAN FOR BLDG. PERMIT APPROVAL
____ FINAL PLAT APPROVAL

____ SIA/ RELEASE OF FINANCIAL GUARANTEE
____ FOUNDATION PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ SO-19 APPROVAL
____ PAVING PERMIT APPROVAL
____ GRADING/ PAD CERTIFICATION
____ WORK ORDER APPROVAL
____ CLOMR/LOMR
____ FLOODPLAIN DEVELOPMENT PERMIT
____ OTHER (SPECIFY) _____

DATE SUBMITTED: 2-6-2020 By: _____

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

MILLER ENGINEERING CONSULTANTS
Engineers • Planners

LETTER OF TRANSMITTAL

TO COA
Planning Department
Development & Building Services
Division – Design Review
600 2nd Street NW
Albuquerque, NM 87102

DATE 2/6/2020	Project No.
ATTENTION: Hydrology Dept.	
RE: Dennis Chavez Community Center	

Transmitted herein are the attached documents (noted below):

COPIES	DATE	NO.	DESCRIPTION
1			COA Application for Building Permit
2			Grading & Drainage Plans Set
1			Email of COA electronic copy
1			PDF electronic copy sent to COA
1			Transmittal Letter

THESE ARE TRANSMITTED as checked below:

☒ For Approval ☐ For Your Use ☐ As Requested ☐ For Review & Comment

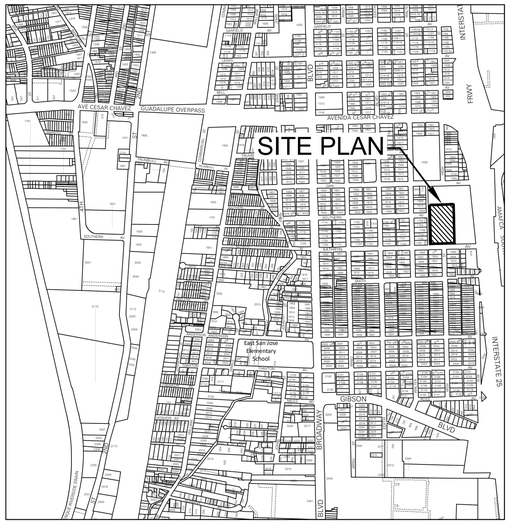
☐ Other:

REMARKS: Project Engineer: Verlyn Miller

Copy Sent To: VA
MEC File

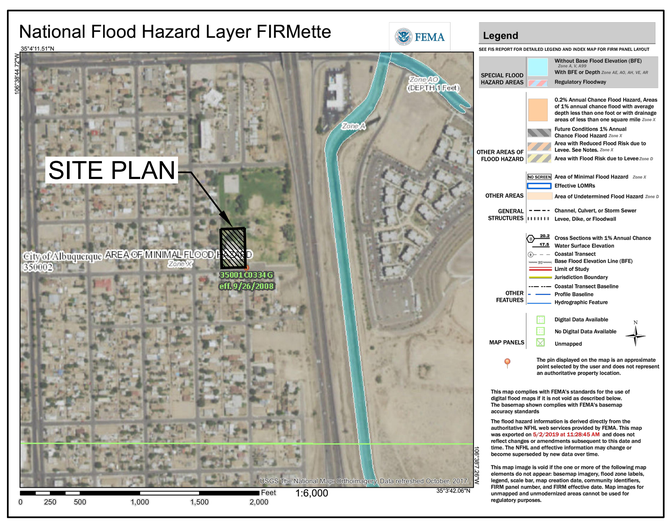
SIGNED: _____

3500 Comanche Road NE, Building F · Albuquerque, NM 87107-4546
Phone 505-888-7500 · Fax 505-888-3800 · www.mecnm.com



C1 VICINITY MAP

ZONE ATLAS MAP L-14-C



A1 FLOOD ZONE MAP

SITE LOCATION

THE PROPOSED SITE, THE CITY OF ALBUQUERQUE'S DENNIS CHAVEZ COMMUNITY CENTER (DCCC), IS LOCATED ON KATHRYN AVENUE BETWEEN I–25 AND BROADWAY BOULEVARD. THE SITE IS BOUNDED BY RESIDENTIAL DEVELOPMENT TO THE NORTH, WEST, AND SOUTH AND I–25 TO THE EAST.

EXISTING ON SITE CONDITIONS

THE SITE IS CURRENTLY FULLY DEVELOPED WITH THE EXISTING COMMUNITY CENTER, HARDSCAPE, AND LANDSCAPING. THE TERRAIN IS ESSENTIALLY FLAT DUE TO THE DEVELOPMENT OF NUMEROUS EXISTING RETAINING WALLS LOCATED BOTH EAST AND WEST OF THE EXISTING BUILDING. THE SITE DRAINS TO THREE EXISTING STORM WATER QUALITY PONDS LOCATED ON THE SITE. THE AREA OF INTEREST FOR THIS PROJECT IS THE NORTHERN PORTION OF THE SITE WHERE THE SMALL BUILDING ADDITION WILL OCCUR. THE AREA OF INTEREST AND DRAINAGE BASIN FOR THIS PROJECT IS ESTIMATED AT 0.29 ACRES AND IS FULLY DEVELOPED WITH A PORTION OF THE EXISTING BUILDING AND A SMALL WESTERN LANDSCAPED RETENTION POND.

THERE IS NO OFFSITE DRAINAGE BASINS THAT IMPACT THE SITE. THE SITE IS NOT CURRENTLY IN A FLOODPLAIN AS PER FEMA PANEL MAP ON THIS SHEET. ALL RUNOFF FROM THE SITE DISCHARGE WEST TOWARD AN EXISTING ALLEY AND SOUTH TO KATHRYN STREET.

PROPOSED CONDITIONS

THE PROPOSED PROJECT WILL CONSIST OF A NEW ADDITION TO THE EXISTING BUILDING ON THE NORTH SIDE OF THE SITE. CONCRETE SIDEWALKS WILL BE ADDED AROUND THE BUILDING ADDITION AND THE EXISTING RETENTION POND WILL BE RECONFIGURED WITH TURF TO ALLOW FOR THE BUILDING ADDITION. THE FINISH FLOOR ELEVATION WILL MATCH THE EXISTING FINISH FLOOR ELEVATION. ALL RUNOFF FROM THE BUILDING ADDITION AND SIDEWALKS IN BASIN A WILL BE DIRECTED TOWARD THE NEW RETENTION POND ON THE NORTH SIDE OF THE SITE. THE RETENTION POND WILL BE SIZED LARGE ENOUGH TO RETAIN THE INCREASED FLOWS FROM THE PROJECT AS WELL AS THE FIRST FLUSH VOLUME FROM BASIN A. THE IMPERVIOUS AREA FOR BASIN B HAS BEEN REDUCED AS WELL AS THE RESULTING PEAK FLOW. THE MINIMAL FLOW FROM BASIN B (0.17cfs) WILL CONTINUE TO DISCHARGE INTO THE EXISTING CONCRETE–LINED CHANNEL NORTH OF THE SITE AS UNDER EXISTING CONDITIONS. THE HYDROLOGY TABLE ON THIS SHEET PROVIDES A SUMMARY OF THE EXISTING AND FULLY DEVELOPED FLOWS FROM BASIN A AND BASIN B.

CONCLUSIONS

WHEN DEVELOPED AS INDICATED ON THE GRADING AND DRAINAGE PLAN, THE INCREASED RUNOFF FROM THE SITE IS ESTIMATED AT 0.093 cfs, AND 303 cf DURING THE 100–YEAR EVENT. THE FIRST FLUSH POND VOLUME REQUIRED FOR THE PROJECT IS IS ESTIMATED AT 173 cfs. THE PROPOSED RETENTION POND IS DESIGNED TO ACCOMMODATE OVER 375 cf, WHICH IS WELL ABOVE THE RETENTION VOLUME REQUIRED FOR THE PROJECT. THE RUNOFF FROM BASIN B WILL BE SIGHTLY REDUCED FROM THAT OF EXISTING CONDITIONS.

GENERAL NOTES:

1. EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS WAS PROVIDED BY WILLIAM D. NEISH, NEW MEXICO LICENSED PROFESSIONAL SURVEYOR NO. 21081. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
2. A CITY OF ALBUQUERQUE 1–3/4" ALUMINUM DISK, SET FLUSH IN THE TOP OF THE CURB AND IS STAMPED "14–L14 1987". BENCHMARK IS LOCATED 1.4 MILES SOUTH FROM THE INTERSECTION OF CENTRAL AVENUE AND BROADWAY BOULEVARD.
   X=1,522,147.571' ELEV=4961.157' (NAVD 1988)
   Y=1,478,852.266' CGGF:1.0003202699
   TBM FOUND 1/2" REBAR WITH CAP "LS 6126" ELEV.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
4. CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
5. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260–1990 FOR LOCATION OF EXISTING UTILITIES.
6. ALL EMBANKMENTS SHALL BE PLACED AND COMPACTED IN LIFTS OF MAXIMUM OF 8". THE EMBANKMENTS SHALL BE WETTED AND COMPACTED TO 95% OPTIMUM DENSITY PER ASTM D1557 AND 95% UNDER ALL STRUCTURES INCLUDING DRIVEWAYS AND PARKING LOTS.
7. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
8. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE STORM DRAINAGE REGULATIONS. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE "GRADING AND DRAINAGE DESIGN REQUIREMENTS AND POLICIES FOR LAND DEVELOPMENT."
9. THE OWNER, CONTRACTOR AND/OR BUILDER SHALL COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
10. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE AND REASONABLE MEASURES TO PREVENT SEDIMENT OR POLLUTANT LADEN STORM WATER FROM EXITING THE SITE DURING CONSTRUCTION. STORMWATER MAY BE DISCHARGED IN A MANNER, WHICH COMPLIES WITH THE APPROVED GRADING AND DRAINAGE PLAN.
11. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO PREVENT THE MOVEMENT OF CONSTRUCTION RELATED SEDIMENT, DUST, MUD, POLLUTANTS, DEBRIS, WASTE, ETC FROM THE SITE BY WIND, STORM FLOW OR ANY OTHER METHOD EXCLUDING THE INTENTIONAL, LEGAL TRANSPORTATION OF SAME IN A MANNER ACCEPTABLE BY THE CITY.
12. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE AREAS SHOWN AS "SLOPE LIMITS" ON THE GRADING AND DRAINAGE PLAN.
13. SEE ARCHITECTURAL DRAWINGS FOR SIDEWALK AND HANDICAPPED RAMPS, DETAILS AROUND THE BUILDING.
14. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE PLAN.
15. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%, ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5.0%, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 15:1.
16. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.
17. THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
18. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS (UPDATE 8, AMENDMENT 1)
19. ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.

DRAINAGE DATA

DENNIS CHAVEZ COMMUNITY CENTER 2/5/20

HYDROLOGY CALCULATIONS

BASED ON "DEVELOPMENT PROCESS MANUAL, VOL. 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE", SECTION A.

Precipitation Zone 2 - 100-year Storm P(360) = 2.35 in P(1440) = 2.75 in

Basin	Basin Area (Ac)	Treatment Factors (Acres) A	B	C	D	Ew (in)	V(100-6) (af)	V(100-24) (af)	Q(100) (cfs)	90th Percentile Storm Event Volume (cubic feet)	Increased Volume from Existing Conditions (cubic feet)
Existing Conditions										.34" * LT D	
Basin A	0.240	0.000	0.000	0.170	0.070	1.419	0.028	0.031	0.863		
Basin B	0.050	0.000	0.000	0.038	0.012	1.368	0.006	0.006	0.176		
Total	**0.290**							**0.031**	**0.863**		
Proposed Conditions											
Basin A	0.240	0.000	0.000	0.110	0.130	1.67	0.033	0.038	0.956		
Basin B	0.050	0.000	0.000	0.040	0.010	1.33	0.006	0.006	0.173		
Total	**0.290**							**0.038**	**0.956**	**173**	**303**

DENNIS CHAVEZ COMMUNITY CENTER

02/4/20

Pond Rating Table

Water Harvest Area

Pond Rating Table		Spillway Crest = 4997.5	
Side Slope	4:1		
Depth (ft)	Area (sq ft)	Volume (cubic fet)	Cum Volume (cubic feet)
96.5	0	0	0
97	342	86	86
97.5	474	204	290
Total Volume (cu. Ft.)			375

CONTROL POINT DATA:

CONTROL POINT DC–1:
N: 1480693.819
E: 1524257.711
ELEV: 5020.72
DESCRIPTION: REBAR w/ALUM CAP

CONTROL POINT DC–2:
N: 1480671.956
E: 1523856.960
ELEV: 5006.10
DESCRIPTION: REBAR w/ALUM CAP

CONTROL POINT DC–3:
N: 1480266.249
E: 1523865.171
ELEV: 4997.03
DESCRIPTION: REBAR w/ALUM CAP

CONTROL POINT DC–4:
N: 1479911.834
E: 1523877.744
ELEV: 4989.11
DESCRIPTION: REBAR w/ALUM CAP

CONTROL POINT DC–5:
N: 1480059.553
E: 1524170.331
ELEV: 5019.46
DESCRIPTION: REBAR w/ALUM CAP

MILLER ENGINEERING CONSULTANTS
Engineers Planners
3500 COMANCHE, NE
BUILDING F
ALBUQUERQUE, NM 87107
(505)888.7500
(505)888.3800 (FAX)
WWW.MECNM.COM

DENNIS CHAVEZ COMMUNITY CENTER ADDITION-PHASE II

715 KATHRYN AVENUE, SE
ALBUQUERQUE, NM 87102

100% CONSTRUCTION DOCUMENTS

FEBRUARY 4, 2020

VERLYN A. MILLER II NEW MEXICO 14907 REGISTERED PROFESSIONAL ENGINEER 2/4/2020

DYRON MURPHY ARCHITECTS, P.C.
4505 Montbel Place NE, Albuquerque, New Mexico 87107

PHASE II
DESIGN
DEVELOPMENT
SUBMITTAL

ENGINEER

Revision Schedule		
#	Date	Description

PROJECT NUMBER	DRAWN BY	PROJ MGR
Project #	MEC	VAM

RVT FILE
C:\Revit Locals\Thoreau Veterans Center_vanessa.rvt

Sheet Title: Grading and Drainage HYDROLOGY

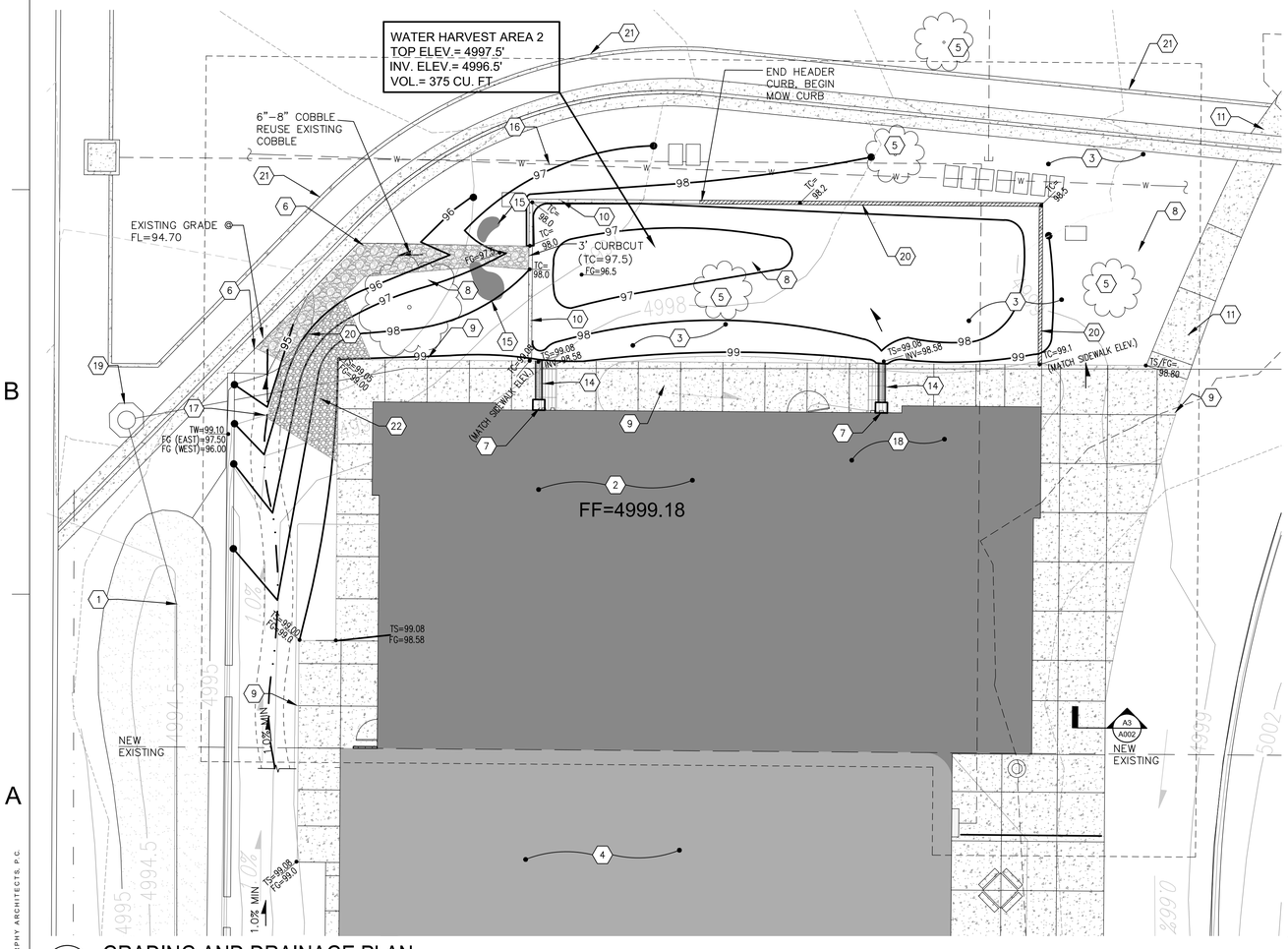
Sheet Number

C-100

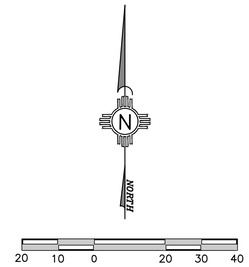
Sequence of

KEYED NOTES:

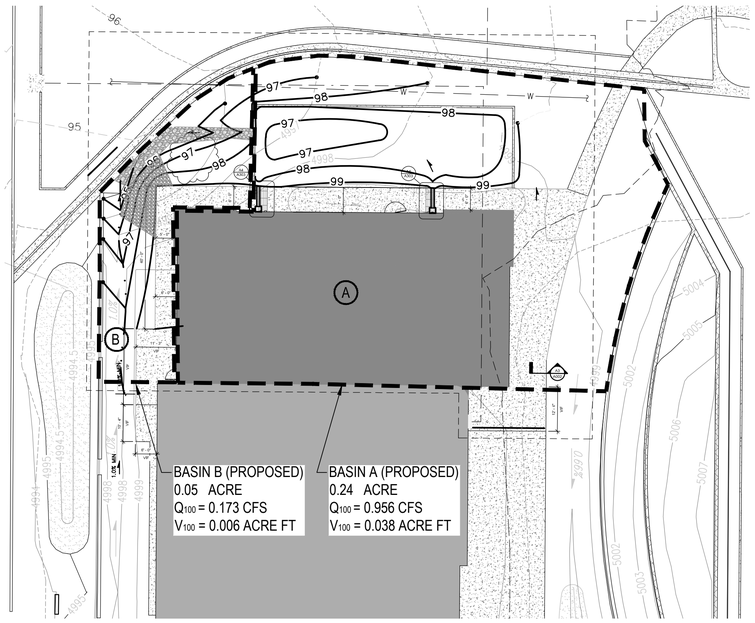
1. EXISTING 4" SANITARY SEWER LINE TO REMAIN.
2. NEW BUILDING. SEE ARCHITECTURAL PLANS FOR DETAILS.
3. LANDSCAPE AREA. MATERIAL GRADE AND COLOR TO MATCH EXISTING. SEE ARCHITECTURAL PLANS FOR DETAILS.
4. EXISTING BUILDING.
5. DO NOT DISTURB EXISTING TREES OR TREE ROOT SYSTEM.
6. NEW 4' WIDE ROCK LINED SWALE. SEE DETAIL A1, THIS SHEET
7. NEW ROOF DRAIN DOWN SPOUTS, SEE ARCHITECTURAL PLANS FOR DETAILS.
8. REMOVE EXISTING CONCRETE HEADER CURB BETWEEN EXISTING SIDEWALK AND VALLEY GUTTER.
9. NEW CONCRETE SIDEWALK, SEE ARCHITECTURAL PLANS FOR DETAILS.
10. NEW HEADER CURB SEE DETAIL THIS SHEET.
11. EXISTING SIDEWALK TO REMAIN.
12. NOT USED
13. NOT USED
14. NEW SIDEWALK CULVERT DETAIL, SEE ARCHITECTURAL PLANS FOR DETAILS..
15. PLACE BOULDERS FROM EXISTING POND TO CREATE SPILLWAY EFFECT. SEE LANDSCAPE PLAN.
16. APPROXIMATELY LOCATION OF EXISTING 6" WATERLINE. APPROXIMATE DEPTH 8"–12" BELOW GRADE.
17. MATCH LANDSCAPING TO EXISTING. SEE ARCHITECTURAL PLANS FOR DETAILS.
18. REMOVE COBBLE IN EXISTING POND AND REUSE IN NEW LANDSCAPING. SEE ARCHITECTURAL PLANS FOR DETAILS.
19. EXISTING CISTERN TO REMAIN.
20. NEW MOW CURB SEE DETAIL THIS SHEET.
21. EXISTING MOW CURB TO REMAIN.
22. 4" OF 2" GRAVEL MULCH SLOPE PROTECTION.



A5 GRADING AND DRAINAGE PLAN
SCALE: 1" = 10'



20 10 0 20 30 40
SCALE: 1"=20'
CONTOUR INTERVAL = 1'



A2 DRAINAGE BASIN PLAN
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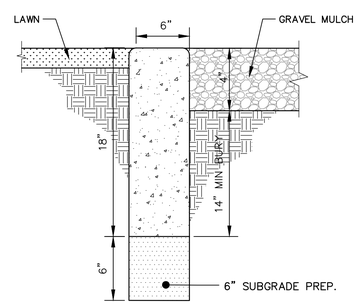
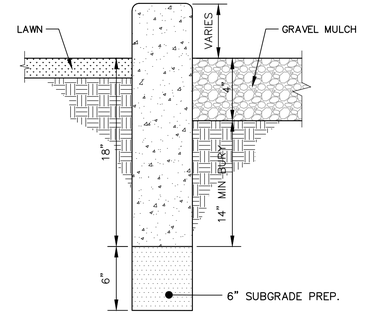


B1 MOW CURB DETAIL
SCALE: NOT TO SCALE



B2 HEADER CURB DETAIL
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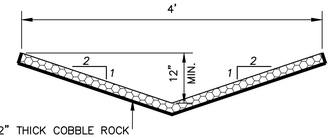

SECTION

A2 COBBLE SWALE DETAL
SCALE: NOT TO SCALE

10 5 0 10 15 20
SCALE: 1"=10'
CONTOUR INTERVAL = 1'

DENNIS CHAVEZ COMMUNITY CENTER ADDITION-PHASE II

715 KATHRYN AVENUE, SE
ALBUQUERQUE, NM 87102

100% CONSTRUCTION DOCUMENTS

FEBRUARY 4, 2020

LEGEND:

38.00 FG	PROPOSED SPOT ELEVATIONS (FINISHED GRADE)
MATCH (95.19)	MATCH EXISTING ELEVATIONS
TCON	TOP OF CONCRETE
FL	FLOW LINE, CURB
INV	INVERT
FG	FINISH GRADE
TBC	TOP OF BASE COURSE
TC	TOP OF CURB
TG	TOP OF GRATE
TA	TOP OF ASPHALT
	FLOW ARROW
	GRADE BREAK–HIGH POINT
	SWALE
SD	STORM DRAIN LINE
5895	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
5895	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	DRAINAGE BASIN BOUNDARY
A	DRAINAGE BASIN DESIGNATION
OS-1	OFFSITE DRAINAGE BASIN DESIGNATION

VERLYN A. MILLER II
NEW MEXICO
14507
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2/4/2020

DYRON MURPHY ARCHITECTS, P.C.
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Sheet Title: **Grading and Drainage Plan and Drainage Basins Plan**

MILLER ENGINEERING CONSULTANTS
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Sheet Number
C-101
Sequence of