City of Albuquerque

Planning Department
Development & Building Services Division
DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV. 2/2013)

Project Title: Griegos Elementary School Portable Relocation City Drainage #: G-13

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

Legal Description: 2 LOTS 1 THRU 5 VAN CLEAVE ACRES, 3-ACRES

City Address: 4040 SAN ISIDRO NW, ALBUQUERQUE, NM 87107

+Engineering WILSON & COMPANY Contact: EUGENIO VALDEZ

Address: 4900 LANG AVENUE NE, ALBUQUERQUE NM 87109

Phone #: 505-948-5127 Fax #: 505-348-4055 Email: EEVALDEZ@WILSONCO.COM

Owner: ALBUQUERQUE PUBLIC SCHOOLS Contact: SAL WAR

Address: 915 OAK SE, ALBUQUERQUE, NM 87106

Phone #: 505-842-4537 Fax #: 505-246-9020 Email: WAR@APS.EDU

Architect: _____ Contact: _____

Address: _____

Phone #: _____ Fax #: _____ Email: _____

Surveyor: WILSON & COMPANY Contact: BENJAMIN ARAGON

Address: 4900 LANG AVENUE NE, ALBUQUERQUE NM 87109

Phone #: 505-348-4067 Fax #: 505-348-4055 Email: BENJAMIN.ARAGON@WILSONCO.COM

Contractor: RIO CONCHOS Contact: HECTOR CARILLO

Address: _____

Phone #: 877-2553 EXT-101 Fax #: _____ Email: CARILLOH@MSN.COM

TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- X DRAINAGE PLAN 1st SUBMITTAL
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL G & D PLAN
- X GRADING PLAN
- ____ EROSION & SEDIMENT CONTROL PLAN
- ____ ENGINEER'S CERT (HYDROLOGY)
- ____ CLOMR\LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEERS CERT (TCL)
- ____ ENGINEERS CERT (DRB SITE PLAN)
- ____ ENGINEERS CERT (ESC)
- ____ SO-19
- ____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ____ SIA/FINANCIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D. APPROVAL
- ____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ CERTIFICATION OF OCCUPANCY (PERM)
- ____ CERTIFICATION OF OCCUPANCY (TCL TEMP)
- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- X GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ GRADING CERTIFICATION

- ____ SO-19 APPROVAL
- ____ ESC PERMIT APPROVAL
- ____ ESC CERT. ACCEPTANCE
- ____ OTHER (SPECIFY)

WAS A PRE-DEISGN CONFERENCE ATTENDED: ____ Yes X No ____ Copy Provided

DATE SUMBITTED: 04/20/2015 By: Eugenio Valdez

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land distributing area, including project less than 1-acre than part of a larger common plan of development

LEGEND

FF	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE ELEVATION
ME	MATCH EXISTING ELEVATION
TA	TOP OF ASPHALT ELEVATION
TR	TOP OF RAMP ELEVATION
	2" ASPHALT PAVEMENT
	3" ASPHALT PAVEMENT
	6" REINFORCED CONCRETE PAVEMENT
X 4970.73	4" CONCRETE SIDEWALK
	FLOW ARROW
	XERISCAPE AREA
	SWALE

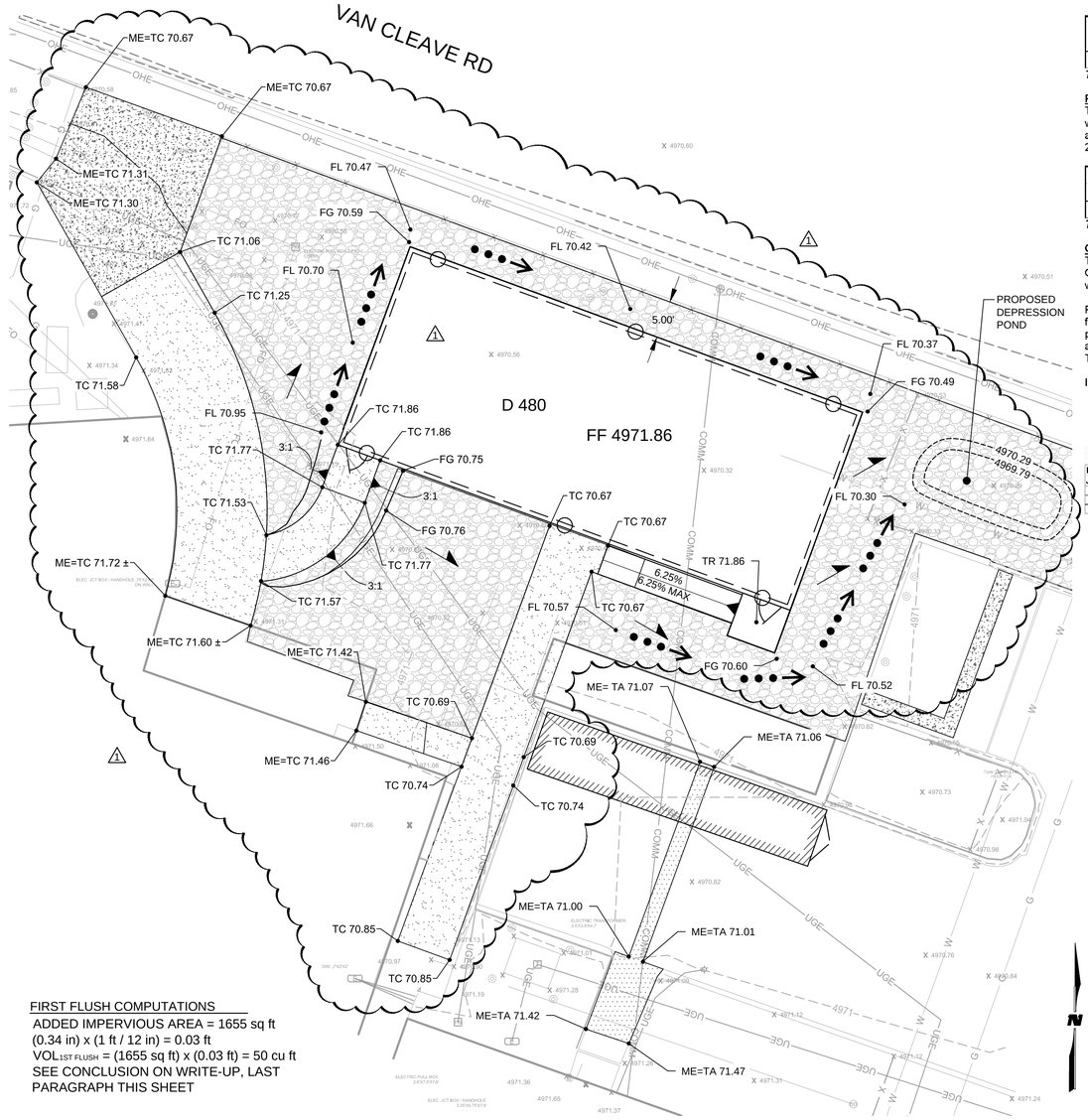
PROJECT BENCHMARK

1. B_438

N: 1499137.72
E: 1524579.96
Elev: 4975.61

NM State Plane Central Zone (scaled to the ground)
NAD 83
NAVD 88
Geoid 09
CGGF = 1.0003221805
Scaled to ground around (0,0)

The station is located 2.2 miles north of downtown Albuquerque.
To reach the station from the intersection of Second Street NW and I-40, travel north on Second Street 0.94 miles to the intersection with Candelaria Boulevard. Turn right onto Candelaria and travel east 0.14 miles to the station on the left along the eastern edge of the railroad right-of-way.
The monument is an NGS stainless rod set beneath a 5 1/2" access cover stamped "B-438, 1984", NE quadrant of Candelaria Blvd. NE and the BNSF Railroad tracks, 42.2 ft. east of centerline of the tracks, 77.7 ft. north of centerline of Candelaria Blvd., and 1 ft. west of a chain link fence.



FIRST FLUSH COMPUTATIONS

ADDED IMPERVIOUS AREA = 1655 sq ft
(0.34 in) x (1 ft / 12 in) = 0.03 ft
$VOL_{1ST\ FLUSH}$ = (1655 sq ft) x (0.03 ft) = 50 cu ft
SEE CONCLUSION ON WRITE-UP, LAST PARAGRAPH THIS SHEET

A1 SITE / GRADING & DRAINAGE PLAN
1" = 40'

Introduction and Project Description:
Griegos Elementary School is located at 4040 San Isidro NW near the intersection of Van Cleave Road and San Isidro Street, just north of Valley High School. The proposed site is located just northeast of the main classroom building within a graveled area. The goal of this project is to add temporary portable to the campus.

The drainage concept for this project will follow the assumptions made in the approved Grading & Drainage Plan submitted by Wilson & Company, Inc., Engineers & Architects July 2000. The approved report showed Future Portables within the site plan.

As shown by panel 118 of the national flood insurance program flood insurance rate maps published by FEMA for Bernalillo County, New Mexico, the site lies within a zone x hazard zone, but is at a reduced flood risk due to the levee on the east side of the Rio Grande.

Methodology:
Section 22.2 of the City of Albuquerque DPM was utilized to calculate design flows. The procedure for 40 acre and smaller basins was used. The 100-year, 6 hour storm event was the design storm computed for the improvements. The site is located in precipitation zone 2 as designated in Table A-1 of the DPM. Reference the approved July 2000, Grading & Drainage Plan for Basin delineations.

Existing conditions:
The project area is located within a graveled area. The site is contained within Basin B-1. See table 1 for the existing hydrologic conditions.

Basin B was divided into two areas, B1 and B2 in the approved July 2000, Grading and & Drainage Plan. Per the approved plan Basin B1 will discharge to the north west onto Van Cleve Rd and Basin B2 will discharge onto Van Cleve Rd just south west of an existing catch basin. Drainage patters are following the referenced statement.

Basin	Area	Land treatment (%)				$Q_{P\ (100)}$	$V_{(100\text{-}6)}$	$V_{(100\text{-}6)}$
	Acre	A	B	C	D	(cfs)	(ac-ft)	(cf)
B-1	1.9	0	5	10	85	8.40	0.3094	13,477

Table 1: Existing Hydrology

Proposed conditions:
The project includes relocating one portable just north east of the existing main building. The site is within Basin B-1 and will include one 28'x64' double portable. See table 2 for the proposed hydrologic conditions. The proposed site will include approximately 2% increase in land treatment D. This increase had already been taken into account in the approved July 2000, Grading & Drainage Plan done by Wilson & Company, Inc., Engineers & Architects.

Basin	Area	Land treatment (%)				$Q_{P\ (100)}$	$V_{(100\text{-}6)}$	$V_{(100\text{-}6)}$
	Acre	A	B	C	D	(cfs)	(ac-ft)	(cf)
B-1	1.9	0	5	8	87	8.46	0.3125	13,613

Table 2: Proposed Hydrology

Conclusions:
There is an overall increase of 0.06 cfs and 136 cf. The drainage patterns have not been altered. The approved July 2000 Grading and Drainage Plan accounted for a proposed portable and increase in land treatment D. The results are consistent with the approved Grading & Drainage Plan.

Per the most recent COA drainage ordinance effective Many 12, 2014, the project shall, where practicable manage runoff from a 0.44 inch rainfall event. Based on a treatment "D" initial abstraction of 0.10 inches (COA DPM, Table A-6) an excess precipitation of 0.34 inches will be considered as the first flush volume. The first flush computations result in a volume of approximately 50 cu ft. This volume is conveyed to a proposed depression pond which lies just east of the proposed portable. The depression pond has a capacity of approximately 146 cu ft.

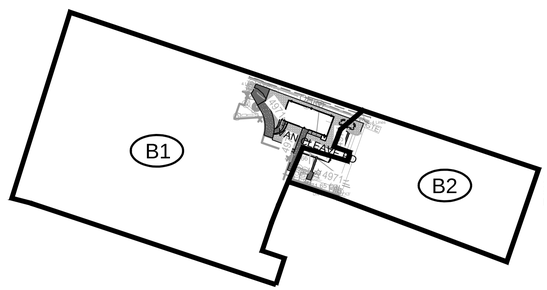
Input data:

Precip. Zone	Rainfall depths (inches) at 100-year storm				
	1 hour	6 hour	24 hour	4 day	10 day
2	2.01	2.35	2.75	3.30	3.95

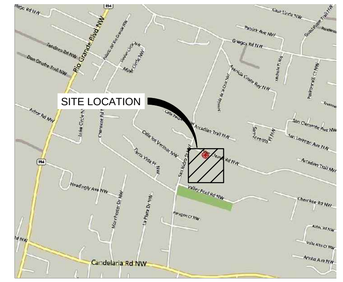
HYDROLOGY SUMMARY

PROJECT NAME:	Griegos ES Portable Relocation							2 YEAR		10YEAR		100 YEAR	
JOB NUMBER:	1560000300	AREA	LAND TREATMENTS				Q	VOLUME (ac.ft.)		Q	VOLUME (ac.ft.)	Q	VOLUME (ac.ft.)
BASIN	COND. DESCRIPTION	(acres)	A	B	C	D	(cfs)	6 HR	24 HR	(cfs)	6 HR	(cfs)	6 HR
B-1	Existing Portable Site	1.9000	0.0%	5.0%	10.0%	85.0%	3.13	0.1069	0.1322	5.49	0.1900	8.40	0.3094
B-1	Developed Portable Site	1.9000	0.0%	5.0%	0.0%	87.0%	3.17	0.1109	0.1340	5.54	0.1934	8.46	0.3125

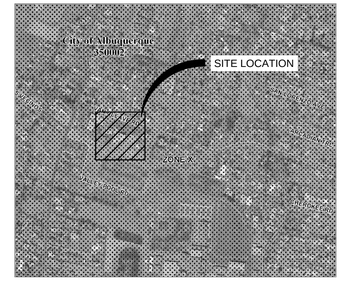
E6 DRAINAGE REPORT



A6 BASIN MAP
1" = 100'



LOCATION
ZONE ATLAS MAP NO G-13



FLOOD INSURANCE RATE MAP
REFERENCE: FLOOD INSURANCE STUDY
PANEL 118 #35001C0118G

SOILS MAP
REFERENCE: HTTP://WEBSOILSURVEY.NRCS.USDA.GOV

GENERAL SHEET NOTES

1. AREAS ADJACENT TO PORTABLE SHALL BE GRADED SO RUNOFF WILL DRAIN AWAY FROM BUILDING.

LEGAL DESCRIPTION

1. 2 LOTS 1 THRU 5 VAN CLEAVE ACRES, 3-ACRES

WILSON & COMPANY
4900 LANG AVE. NE
ALBUQUERQUE, NM 87109
PHONE: 505-348-4000
FAX: 505-348-4055 FIRST FLOOR
FAX: 505-348-4155 SECOND FLOOR
www.wilsonco.com

ALBUQUERQUE PUBLIC SCHOOLS

SEAL

PROJECT NAME: GRIEGOS ELEMENTARY SCHOOL PORTABLE RELOCATION

NO.	DESCRIPTION	DATE	BY
	SIDEWALK ADDITION	04/16/15	EEV

PROJECT NO:	1560000300
DESIGNED BY:	EEV
DRAWN BY:	JEM
CHECKED BY:	EEV
DATE:	FEB 2015

SHEET TITLE: SITE / GRADING & DRAINAGE PLAN

SHEET NO: C-102R

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