

# CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services



Richard J. Berry, Mayor

July 14, 2016

Eugenio E. Valdez, P.E.  
Wilson & Company, Inc.  
4900 Lang Ave. NE  
Albuquerque, NM 87109

**Re: Manzano High School Mobile Health Portable Building  
Drainage Report/Grading and Drainage Plan  
Engineer's Stamp Date 6-17-2016 – K22D020**

Dear Mr. Valdez,

Based upon the information provided in your submittal received 7-13-2016, the above referenced Grading and Drainage Plan to redevelop a portion of the portable building cluster is approved for Foundation Permit. Please include a copy of this approved plan when seeking the Foundation Permit.

Please provide an Engineer Certification once the project is completed.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Abiel Carrillo, P.E.  
Principal Engineer, Planning Dept.  
Development Review Services

Orig: Drainage file



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **City Drainage #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** \_\_\_\_\_

**City Address:** \_\_\_\_\_

**Engineering Firm:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Owner:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Architect:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Other Contact:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

Check all that Apply:

**DEPARTMENT:**

- ☐ HYDROLOGY/ DRAINAGE  
☐ TRAFFIC/ TRANSPORTATION  
☐ MS4/ EROSION & SEDIMENT CONTROL

**TYPE OF SUBMITTAL:**

- ☐ ENGINEER/ ARCHITECT CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN  
☐ GRADING PLAN  
☐ DRAINAGE MASTER PLAN  
☐ DRAINAGE REPORT  
☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)  
☐ TRAFFIC IMPACT STUDY (TIS)  
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☐ OTHER (SPECIFY) \_\_\_\_\_

**CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:**

- ☐ 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
- ☐ PRE-DESIGN MEETING  
☐ OTHER (SPECIFY) \_\_\_\_\_

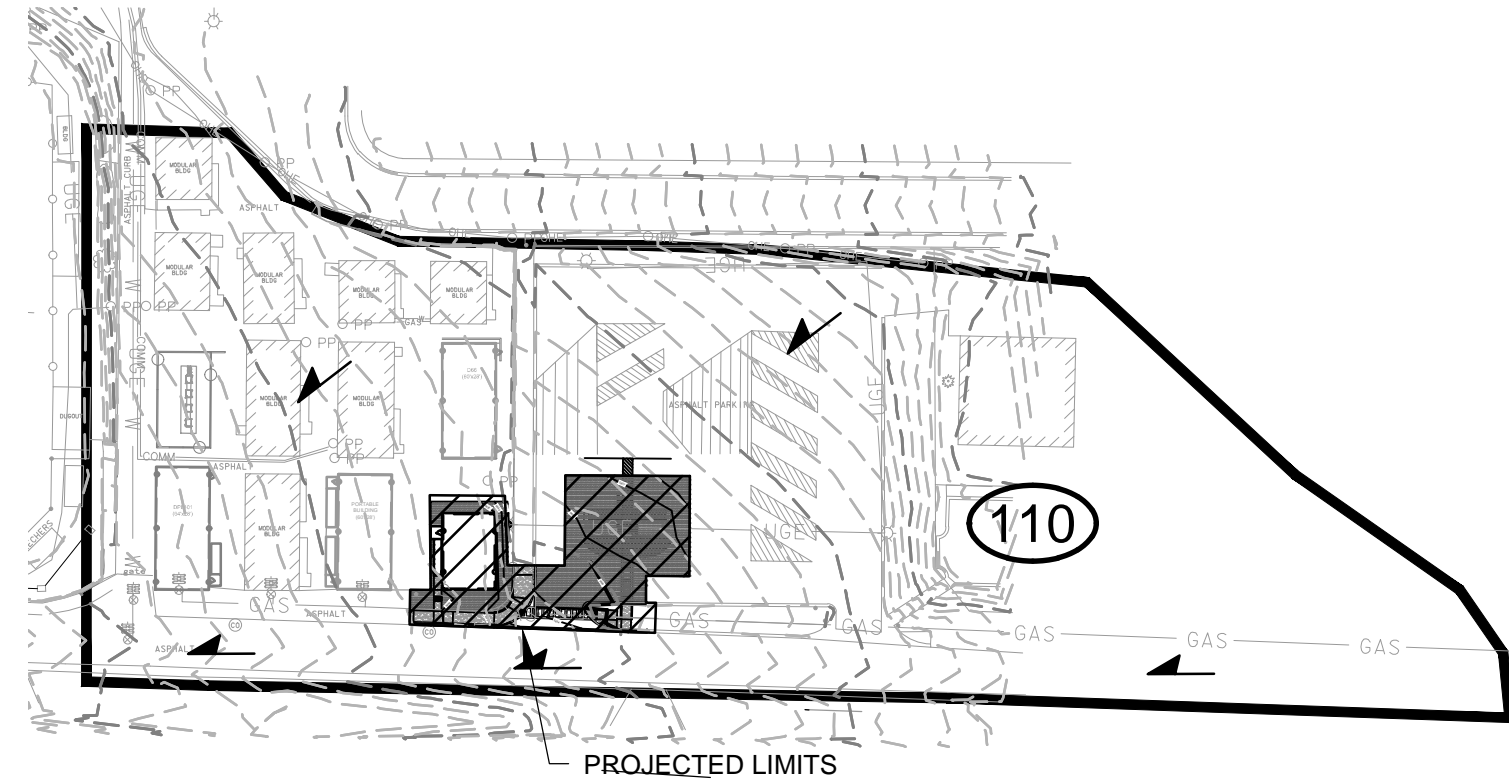
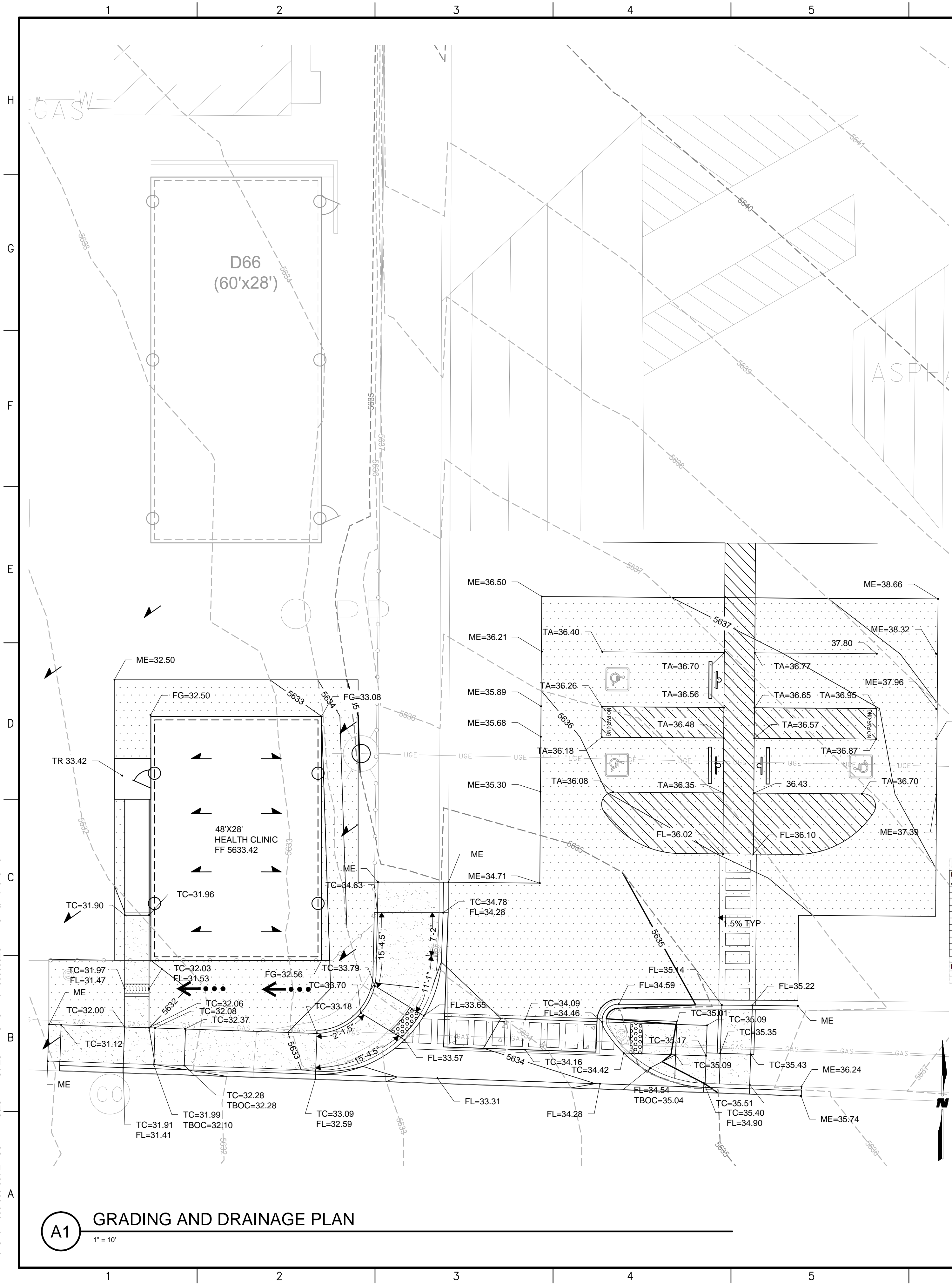
IS THIS A RESUBMITTAL?: ☐ Yes ☐ No

**DATE SUBMITTED:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF: \_\_\_\_\_ ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_



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## BASIN MAP

1" = 100'

### Introduction and Project Description:

Manzano High School is located at 12200 Lomas Blvd NE in Albuquerque New Mexico, east of the intersection of Lomas and Juan Tabo. The proposed site is located southwest of Wilson Stadium and just east of the existing softball field. The goal of this project is to add a Health Clinic portable to the campus.

The drainage concept for this project follows the assumptions made in the Drainage Master Plan submitted by Wilson & Company, Inc., Engineers & Architects December 2008. The Approved report accounted for multiple portables within the basin. Some of the portables shown in the approved report have since been removed or relocated. No additional runoff is expected to result from the addition of the proposed portable.

As shown by panel 359 of the national flood insurance program flood insurance rate maps published by FEMA for Bernalillo County, New Mexico, the site does not lie within a hazard zone.

### 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 computed for the existing and proposed conditions. The site is located in Zone 4 as designated in Table A-1 of the DPM. Reference the approved 2008 Drainage Master Plan for basin delineations.

### Existing Conditions:

The current project area consists entirely of asphalt paving. The site is contained within Basin 110. See Table 1 for the existing hydrologic conditions. Per the approved Drainage Master Plan Basin 110 currently discharges to an existing 9-grate type "D" inlet on the southwest corner of the campus via an access road.

Basin	Area Acre	Land treatment (%)				Q <sub>p</sub> (100) (cfs)	V <sub>100-4h</sub> (ac-ft)	V <sub>100-6h</sub> (cf)
		A	B	C	D			
B-110	3.53	0	3	3	94	18.21	0.7570	42,105

Table 1-Existing Hydrology

### Proposed Conditions:

The project includes the addition of 1 Health Clinic portable, re-grading of areas around the site for ADA compliance, and parking lot restriping. See table 2 for the proposed hydrologic conditions. No additional impervious areas are added as a result of the proposed improvements.

Basin	Area Acre	Land treatment (%)				Q <sub>p</sub> (100) (cfs)	V <sub>100-4h</sub> (ac-ft)	V <sub>100-6h</sub> (cf)
		A	B	C	D			
B-110	3.53	0	3	3	94	18.21	0.7570	42,105

Table 2-Proposed Hydrology

### CONCLUSION:

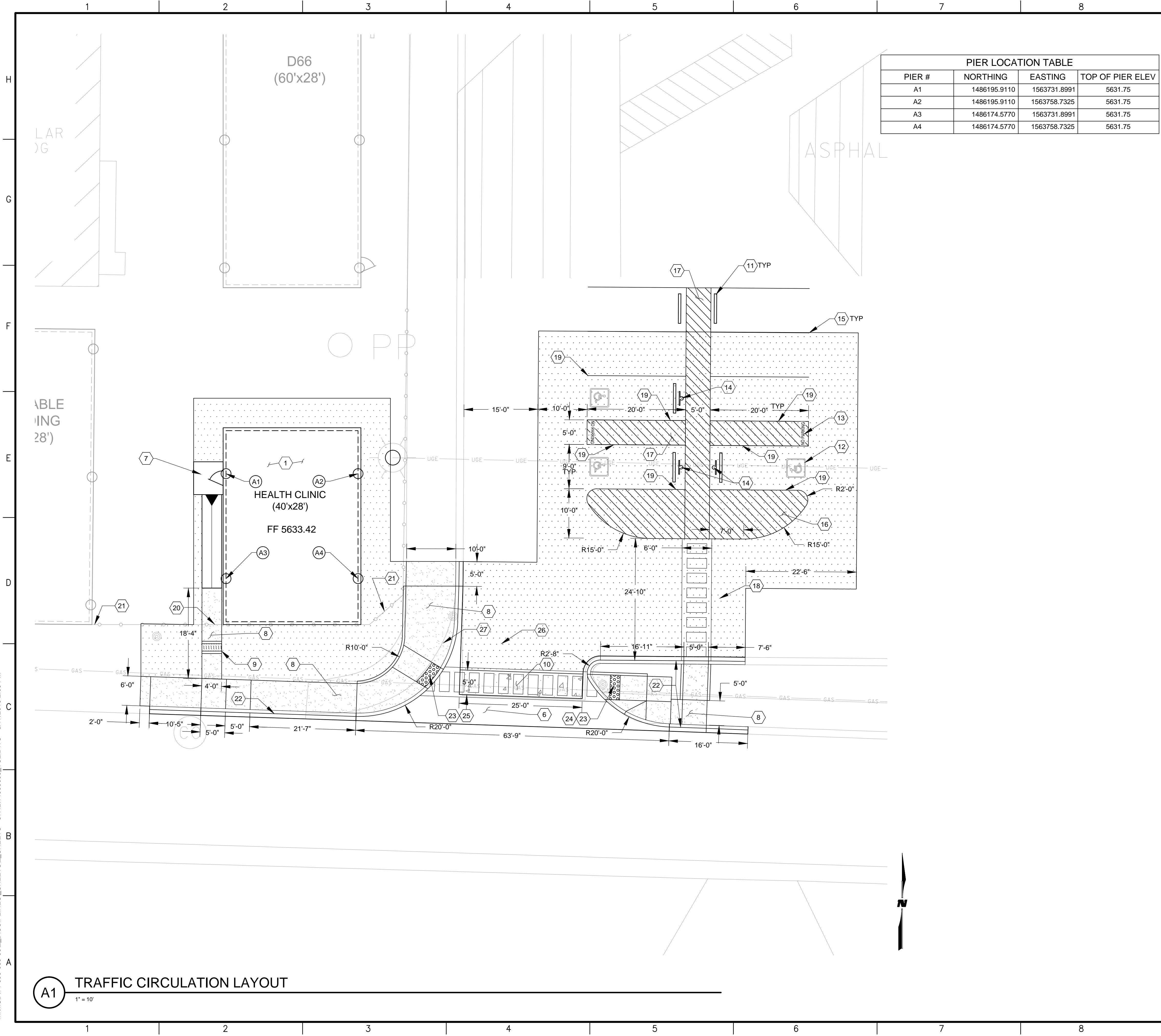
The Approved December 2008 Drainage Master Plan accounted for peak flows greater than those resulting from the proposed improvements. The drainage patterns have not been altered. No additional impervious areas have been added that had not previously been accounted for in the approved Drainage Master Plan therefore no 1st flush calculations are necessary.

## HYDROLOGY SUMMARY

PROJECT NAME:		Manzano HS Health Clinic Portable		JOB NUMBER:												
1460009003		HS DISCH														
BASIN	COND.	DESCRIPTION	AREA		2 YEAR		10YEAR		100 YEAR							
			A	B	Q	VOLUME (ac-ft)	Q	VOLUME (ac-ft)	Q	VOLUME (ac-ft)						
B-110	Existing	Portable Site	3.5300	0.0%	2.0%	3.0%	95.0%	7.41	0.2853	0.3762	12.31	0.4814	0.6212	18.21	0.7570	0.9665
B-110	Developed	Portable Site	3.5300	0.0%	2.0%	3.0%	95.0%	7.41	0.2853	0.3762	12.31	0.4814	0.6212	18.21	0.7570	0.9665
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KEYNOTES

1. INSTALL HEALTH CLINIC PORTABLE. RETRIEVED FROM ROOSEVELT MIDDLE SCHOOL. 40'x28' PORTABLE; SEE DETAIL A7/C-501 FOR PIER LAYOUT. CONSTRUCT CONCRETE PIERS. SEE DETAIL C8/C-501.

2. CONSTRUCT 2" ASPHALT PAVEMENT. SEE DETAIL G9/ C-501

3. INSTALL 4'-0" CHAIN LINK FENCE. SEE DETAIL A1/ C-502 & F2/C-502.

4. INSTALL 4'-0" SWING GATE. SEE DETAIL A1/C-502.

5. CONSTRUCT ADA RAMP

6. CONSTRUCT COA VALLEY GUTTER. SEE SHEET C-503

7. INSTALL PRE-FAB RAMP. SEE SHEET C-503

8. CONSTRUCT 4" PCC SIDEWALK. 1.5% TYP CROSS SLOPE. SEE DETAIL A1/C-502

9. CONSTRUCT 12" SIDEWALK CULVERT. SEE SHEET C-503

10. CONSTRUCT 6" PCC. SEE SHEET C-501

11. INSTALL CONCRETE WHEEL STOP. SEE SHEET C-503

12. PAINT (2 COATS) "INTERNATIONAL" SYMBOL OF ACCESSIBILITY PAVEMENT MARKING NEAR END OF PARKING STALL. SEE SHEET C-501

13. PAINT SOLID WHITE (2 COATS) "NO PARKING" STENCIL IN CAPITAL LETTERS. EACH OF WHICH SHALL BE AT LEAST ONE FOOT HIGH AND AT LEAST TWO INCHES WIDE PLACED AT THE REAR OF AISLE.

14. INSTALL ADA SIGN AND SQUARE POST W / BREAK AWAY. SEE DETAIL D1/C-501.

15. PAINT (2 COATS) 4" WIDE SOLID WHITE STRIPE.

16. PAINT (2 COATS) 4" WIDE SOLID WHITE DIAGONAL STRIPE.

17. PAINT (2 COATS) 4" WIDE ADA BLUE DIAGONAL STRIPE.

18. PAINT (2 COATS) SOLID WHITE CROSSWALK STRIPING. SEE DETAIL F1\ C-501.

19. PAINT (2 COATS) 4" WIDE SOLID ADA BLUE STRIPE.

20. INSTALL 4'-0" W PEDESTRIAN GATE. SEE DETAIL A1/ C-502.

21. INSTALL 5'-0" H CHAINLINK FENCE. SEE DETAIL A1/ C-502.

22. CONSTRUCT MEDIAN CURB AND GUTTER. SEE DETAIL F2/ C-504.

23. INSTALL 2' X 5' DETECTABLE WARNING SURFACE SEE DETAIL F5/ C-502.

24. CONSTRUCT PARALLEL ADA RAMP. SEE DETAIL A7/ C-504.

25. CONSTRUCT COMBINATION ADA RAMP. SEE DETAIL E7/ C-504.

26. PAINT (2 COATS) 12" WIDE SOLID WHITE RETROREFLECTIVE STOP BAR.

27. RELOCATED 'STOP' SIGN.

LEGEND

2" ASPHALT PAVEMENT

4" CONCRETE

6" REINFORCED CONCRETE

PROJECT NAME

MANZANO HIGH SCHOOL  
PORTABLE HEALTH CLINIC

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 1460009003

DESIGNED BY: EEV

DRAWN BY: DAA

CHECKED BY: EEV

DATE: JUN 2016

SHEET TITLE

TRAFFIC CIRCULATION  
LAYOUT

SHEET NO:

C-103

WILSON & COMPANY

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

APS

ALBUQUERQUE  
PUBLIC SCHOOLS

SEAL

EUGENIO E. VALDEZ  
NEW MEXICO  
18404  
6/17/16  
PROFESSIONAL ENGINEER

PROJECT NAME

MANZANO HIGH SCHOOL  
PORTABLE HEALTH CLINIC

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 1460009003

DESIGNED BY: EEV

DRAWN BY: DAA

CHECKED BY: EEV

DATE: JUN 2016

SHEET TITLE

TRAFFIC CIRCULATION  
LAYOUT

SHEET NO:

C-103