CITY OF ALBUQUERQUE

March 24, 2016



Richard J. Berry, Mayor

Maryam D. Giahi Wilson & Company 4900 Lang Ave. NE Albuquerque, NM, 87109

RE:

APS Rankin Training Facility Grading and Drainage Plan Engineer's Stamp Date 2-16-2016 (File:G15D061)

Dear Ms. Giahi:

Based upon the information provided in your submittal received 2-17-2016, the above referenced Grading and Drainage Plan is approved for Grading Permit and Building/Demo Permit. We do, however, have the following recommendations:

- 1. The crusher fine parking areas should be graded away from the pavement edges, or the pavement section will be subject to subgrade failure and eventual edge cracking. This will be a requirement, if during the C.O. inspection it becomes apparent that sediment will wash onto the street during a storm.
- 2. A cut-off wall (or narrow edge curbing) should be considered to maintain the integrity of the new edges of asphalt.

Albuquerque

PO Box 1293

If you agree with one or both of the recommendations, please email me at <u>acarrillo@cabq.gov</u> to place a note in our file.

New Mexico 87103

Please attach a copy of this approved plan in the construction sets when submitting for the building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

www.cabq.gov

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

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Sincerely.

Abiel Carrillo, P.E.

Principal Engineer, Planning Dept. Development Review Services



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#:	
Legal Description:	
City Address:	
Engineering Firm:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Owner:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Architect:	
Address:	
	E-mail:
Other Contact:	Contact:
Address:	
Phone#: Fax#:	E-mail:
DEPARTMENT: HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:BUILDING PERMIT APPROVALCERTIFICATE OF OCCUPANCY
	CERTIFICATE OF OCCUPANCE
TYPE OF SUBMITTAL:	PRELIMINARY PLAT APPROVAL
ENGINEER/ ARCHITECT CERTIFICATION	SITE PLAN FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN	SITE PLAN FOR BLDG. PERMIT APPROVAL
GRADING PLAN	FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE
DRAINAGE MASTER PLAN	FOUNDATION PERMIT APPROVAL
DRAINAGE REPORT	GRADING PERMIT APPROVAL
CLOMR/LOMR	SO-19 APPROVAL
	PAVING PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	GRADING/ PAD CERTIFICATION
TRAFFIC IMPACT STUDY (TIS)	WORK ORDER APPROVAL
EROSION & SEDIMENT CONTROL PLAN (ESC)	CLOMR/LOMR
OTHER (SPECIFY)	PRE-DESIGN MEETING
	OTHER (SPECIFY)
IS THIS A RESUBMITTAL?: Yes No	
DATE SUBMITTED:By:	

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____

ME 36.55~

TA 35.90

-ME 36.85

ME 35.55

EXISTING 4" PVC SD

HP 36.01-

LOW POINT

ME 35.99~

ME 36.30~

FG 36.38-

RANKIN ROAD NE

dometop /

5037.32

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TC 38.87-TA 36.90-

FF=5038.92

TC 37 15 ¬

TA 37 03-

TA 36.65

∕-ME 36.90

- COMM-

• ∕-TC 37.92

5.19%

FF=5039.29

⁻TC 37.81

∕-FG 37.44

TA 37.20

∽ME 37.62 ౖ

−ME 37.69

TA 38.87-

FF=5039.23

ME 37.68

−ME 38.82

−TC 39.03 🔾

┌ME 39.12

∕-FG 39.07

-TA 38.76

0

0

FF=5039.12

FF=5037.06

SITE LOCATION & PROJECT BACKGROUND: RANKIN TRAINING FACILITY IS LOCATED AT 720 RANKIN ROAD, NE IN ALBUQUERQUE, NEW MEXICO. THE PROPERTY AREA IS 2.02 AC AND INCLUDES A MAIN AND MODULAR BUILDINGS WITH ASPHALT PAVED PARKING LOT. THE PROPOSED IMPROVEMENTS INCLUDES REMOVAL OF EXISTING MODULAR BUILDINGS IN THEIR ENTIRETY AND INSTALLING ASPHALT WHERE MODULAR BUILDINGS WERE LOCATED. EXISTING PAVED PARKING AREAS WILL REMAIN IN METHODOLOGY:
CITY OF ALBUQUERQUE (COA) DEVELOPMENT PROCESS MANUAL (DPM) SECTION 22.2

HYDROLOGY WAS UTILIZED TÓ CALCULATE EXISTING AND DEVELÒPED PEAK RUNOFF AND VOLUME. SEE HYDROLOGY SUMMARY TABLE THIS SHEET.

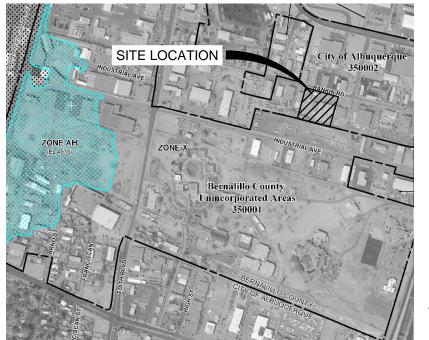
3" ASPHALT SP-B 1 LIFT PER SECTION 116,336

EXISTING CONDITIONS:
THE EXISTING SITE SLOPES IN A NORTHWESTERLY DIRECTION AND DRAINS INTO RANKIN ROAD. APPROXIMATELY 1.6 AC OF THE SITE IS COVERED WITH BLUEPOINT-KOKAN ASSOCIATION TYPE SOIL, CLASSIFIED AS HYDROLOGIC SOIL GROUP "A" AND EXCESSIVELY DRAINED. THE REMAINDER OF THE SITE IS COVERED WITH GILA COMPLEX, MODERATELY ALKALI TYPE SOIL CLASSIFIED AS HYDROLOGIC SOIL GROUP "C" AND WELL DRAINED. THE SITE IS LOCATED IN ZONE "X" PER FEMA FLOOD INSURANCE RATE MAP DEFINED AS AREAS WHICH ARE OUTSIDE THE 500-YEAR ANNUAL CHANCE FLOODPLAIN, MAJORITY OF GENERATED RUNOFF SHEET FLOWS TO THE WEST AND ACCUMULATES AT A LOW POINT AT THE EXISTING CURB ALONG THE WEST EDGE OF THE PROPERTY. THE CURB HEIGHT VARIES FROM 6 INCH TO 13 INCHES. A 4 INCH PIPE CONVEYS FLOWS FROM THIS POINT INTO RANKIN ROAD. RUNOFF FROM THE TOP NORTH OF THE PROPERTY ALONG RANKIN ROAD SHEET FLOWS DIRECTLY INTO RANKIN ROAD. THERE ARE NO OFFSITE FLOWS ENTERING THE SITE. THE SITE GENERATES 9.49 CFS IN ITS CURRENT CONDITIONS IN A 100-YR STORM EVENT. SEE HYDROLOGY SUMMARY TABLE.

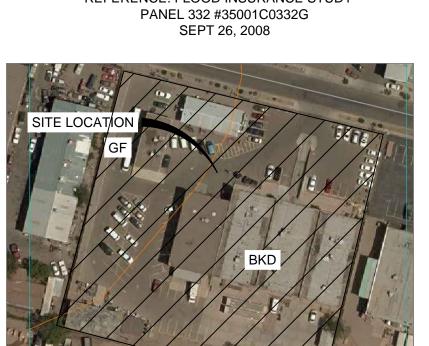
DEVELOPED CONDITIONS:
THE PROPOSED PARKING IMPROVEMENTS WILL INCLUDE ADA ACCESSIBLE PARKING SPACES AND RAMPS. THE CONCRETE SURFACE AREAS UNDER EXISTING MODULAR BUILDINGS WILL BE PAVED WITH ASPHALT. THE ASPHALT LAND TREATMENT WILL BE IMPERVIOUS WHICH WILL RESULT IN THE SAME AMOUNT OF RUNOFF AS IN THE EXISTING CONDITIONS. THE DEVELOPED DRAINAGE PATTERN WILL BE THE SAME AS THE EXISTING CONDITIONS. THE EXISTING PIPE ALONG THE WEST EDGE OF THE PROPERTY CONVEYS FLOWS TO RANKIN ROAD. THE SITE GENERATES 9.49 CFS IN A 100-YR STORM EVENT IN THE DEVELOPED CONDITIONS WHICH IS THE SAME AS THE EXISTING CONDITIONS. SEE THIS SHEET FOR HYDROLOGY SUMMARY TABLE AND GRADING DETAILS. EROSION AND SEDIMENT CONTROL PLAN IS NOT WARRANTED SINCE THE DISTURBED AREA IS LESS THAN



LOCATION ZONE ATLAS MAP G-15







GENERAL NOTES

REFER TO ARCHITECTURAL SHEETS FOR RETAINING WALL DETAIL

LEGEND

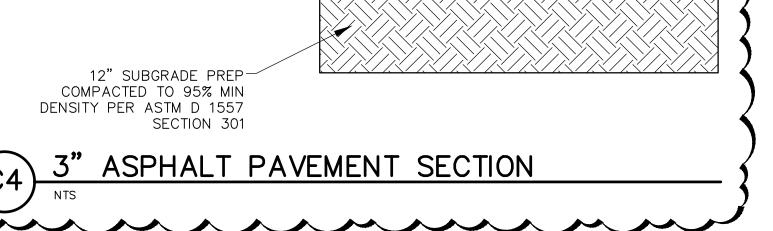
MATCH EXISTING ELEVATION FINISHED GRADE TOP OF CONCRETE TOP OF ASPHALT DRAINAGE FLOW PATH CONCRETE PAVING

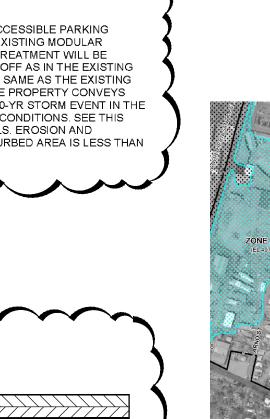


— -5040 — — EXISTING MAJOR CONTOUR **EXISTING MINOR CONTOUR**

-5037-PROPOSED CONTOUR

GRADING AND DRAINAGE PLAN







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

906 1/2 Park Avenue SW Albuquerque, NM 87102

info@integrateddesignarch.com www.integrateddesignarch.com

tel: 505.243.3499 fax: 505.243.3583

16-600-007-00

File Name: 166007_GD.DWG SITE GRADING &

DRAINAGE PLAN