# CITY OF ALBUQUERQUE

June 6, 2016

Richard J. Berry, Mayor

J. Graeme Means, P.E. High Mesa Consulting Group 4715 Moon St NE Albuquerque, NM, 87111

RE: APD SE Area Command Center

Modular Building Addition (Temp Structure)

**Grading and Drainage Plan** 

Engineer's Stamp Date 4-27-2016 (File:L19D043)

Dear Mr. Means:

Based upon the information provided in your submittal received 4-26-2016, the above referenced Grading and Drainage Plan is approved for Building Permit

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.

PO Box 1293

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

Albuquerque

New Mexico 87103

Abiel Carrillo, P.E.

Sincerely

Principal Engineer, Planning Department

**Development Review Services** 

www.cabq.gov

Orig: Drainage file



# City of Albuquerque

# Planning Department

### Development & Building Services Division

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

Project Title: APD SE Area Command Modular Building Addition Building Permit #:	City Drainage #: L19
DRB#: 1003450 EPC#:	Work Order#: 6213
Legal Description: Parcel 2-A, Van Buren Middle School, Lands of Board of Education	
City Address: 800 Louisiana Blvd SE 87108	
Engineering Firm: High Mesa Consulting Group	Contact: J. Graeme Means
Address: 6010-B Midway Park Blvd NE, Albuquerque, NM 87109	
Phone#: 505-345-4250 Fax#: 505-345-4254	E-mail: Gmeans@highmesacg.com
Owner: City of Albuquerque (C/O DMD)	Contact: Stacy Herrera
Address:	
Phone#: Fax#:	E-mail: stacyherrera@cabq.gov
Architect: Cherry See Reames	Contact: Steve Mora
Address: 220 Gold Ave SW, Albuquerque, NM 87102	Contact.
Phone#: 842-1278 Fax#:	E-mail: smora@cherryseereames.com
Other Contact:	Contact:
A ddwggo	Contact:
Phone#: Fax#:	E-mail:
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#### INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN THE SOUTHEAST HEIGHTS OF THE ALBUQUERQUE METROPOLITAN AREA, REPRESENTS A MODIFICATION TO AN EXISTING CITY SITE WITHIN AN INFILL AREA. THE PROPOSED CONSTRUCTION CONSISTS OF A STAND—ALONE TEMPORARY MODULAR BUILDING WITHIN AN EXISTING PAVED PARKING LOT. MINOR MODIFICATIONS TO THE PARKING LOT ARE PROPOSED TO ACCOMMODATE LANDSCAPING REQUIRED BY THE EPC APPROVED SITE PLAN. BECAUSE THE BUILDING IS TEMPORARY, FIRST FLUSH REQUIREMENTS HAVE BEEN WAIVED PER DRB COMMENTS. THE DRAINAGE CONCEPT FOR THE SITE IS THE CONTINUED FREE DISCHARGE OF DEVELOPED RUNOFF PER THE ORIGINAL APPROVED PLAN DATED 04–29–88.

THIS SUBMITTAL IS MADE IN SUPPORT OF BUILDING PERMIT TO BE ISSUED BY THE CITY OF ALBUQUERQUE.

#### II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE EXISTING SITE IS GENERALLY LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF LOUISIANA BLVD. SE AND SOUTHERN BLVD. SE, SOUTH OF THE EXISTING VAN BUREN MIDDLE SCHOOL SITE. AS SHOWN BY PANEL 352 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, SEPTEMBER 26, 2008, THIS SITE DOES NOT LIE WITHIN OR ADJACENT TO A DESIGNATED FLOOD HAZARD ZONE.

#### III. BACKGROUND DOCUMENTS

#### THE PREPARATION OF THIS PLAN RELIED UPON THE FOLLOWING DOCUMENTS:

- GRADING AND DRAINAGE PLAN FOR SOUTHEAST AREA SUBSTATION PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY TOM MANN & ASSOCIATES, INC.) DATED 04-29-88, NMPE 8547. THE 1988 PLAN ESTABLISHED THE PRECEDENT FOR FREE DISCHARGE FROM THE SITE TO LOUISIANA BLVD. SE, A PUBLIC CITY STREET. THE 1988 PLAN ESTABLISHED SURFACE DRAINAGE ACROSS AND THROUGH THE PAVED PARKING LOT AS THE PRIMARY ROUTE BY WHICH DEVELOPED RUNOFF IS DISCHARGED FROM THE SITE.
- TOPOGRAPHIC SURVEY PREPARED BY WILSON AND COMPANY (UNDER CONTRACT WITH THE OWNER), NMPS 21081, DATED 6-12-15. THE SUBJECT SURVEY PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE SITE AS DEPICTED BY THIS SUBMITTAL.

#### IV. EXISTING CONDITIONS

THE PROJECT SITE PRESENTLY CONSISTS OF A CITY OF ALBUQUERQUE POLICE SUBSTATION CONTAINING THE MAIN BUILDING, PAVED PARKING AND LANDSCAPING. THE SITE IS BOUNDED ON THE NORTH BY A PRIVATE ROAD THAT SERVES THE SITE, THE NEIGHBORING VAN BUREN MIDDLE SCHOOL AND THE CITY'S PHIL CHACON COMMUNITY CENTER FARTHER TO THE EAST. AT PRESENT, THE SITE DRAINS FROM EAST TO WEST DISCHARGING DEVELOPED RUNOFF DIRECTLY INTO LOUISIANA BLVD. SE, A PAVED CITY STREET. FROM THIS POINT, RUNOFF FLOWS SOUTH TO GIBSON BLVD. SE WHERE PUBLIC STORM DRAINAGE IMPROVEMENTS COLLECT AND CONVEY STORM WATER WEST.

THERE ARE NO APPARENT OFFSITE FLOWS IMPACTING THE PROJECT SITE AS ESTABLISHED BY PRIOR SUBMITTAL REFERENCED ABOVE. VISUAL SITE INSPECTION BY THE ENGINEER HAS CONFIRMED THAT CONDITIONS HAVE NOT CHANGED SIGNIFICANTLY SINCE 1988 WITH RESPECT TO OFFSITE FLOWS.

# V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION CONSISTS OF THE INSTALLATION OF A TEMPORARY MODULAR BUILDING WITHIN THE EXISTING PARKING LOT AT THE SOUTHEAST CORNER OF THE SITE. THIS PROPOSED PROJECT WILL NOT INCREASE THE IMPERVIOUSNESS OF THE SITE AND THEREFORE WILL NOT INCREASE THE PEAK DISCHARGE AND/OR VOLUME OF RUNOFF GENERATED BY THE SITE. FURTHERMORE, THE MODULAR BUILDING WILL BE LOCATED ABOVE THE EXISTING ASPHALT PAVING THEREBY NOT CHANGING SURFACE DRAINAGE PATTERNS; RUNOFF WILL BE ALLOWED TO FLOW UNDER THE MODULAR BUILDING ON THE EXISTING PAVEMENT SURFACE.

AS IN THE EXISTING CONDITION, THERE ARE NO OFFSITE FLOWS IMPACTING THE PROJECT SITE.

#### VI. GRADING PLAN

THE GRADING PLANS SHOW 1.) EXISTING AND PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 2.) THE LIMIT AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS, 3.) INTERIM BMPs, AND 4.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE PROPOSED GRADING WILL MAINTAIN THE CURRENT DRAINAGE PATTERN OF DISCHARGE FROM EAST TO WEST TO THE EXISTING SIDE INLET TO THE NORTH GLENWOOD HILLS ARROYO.

### VII. SEDIMENT AND EROSION CONTROL PLAN

THIS PROJECT DISTURBS LESS THAN ONE—ACRE OF LAND. A SEPARATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS NOT BEEN PREPARED. THE SMALL SIZE OF THIS PROJECT DOES NOT WARRANT THE PREPARATION OF A SITE SPECIFIC SEDIMENT AND EROSION CONTROL PLAN, HOWEVER, THIS PLAN PROPOSES GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES (BMPs) TO MITIGATE THE EFFECTS OF CONSTRUCTION RELATED SEDIMENT DISCHARGING TO THE ADJACENT AND DOWNSTREAM CITY STREET.

# VIII. CALCULATIONS

THE CALCULATIONS CONTAINED HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED PROJECT WILL NOT INCREASE THE DEVELOPED RUNOFF GENERATED BY THE SITE.

# IX. CONCLUSIONS

THE FOLLOWING CONCLUSIONS HAVE BEEN ESTABLISHED AS A RESULT OF THE EVALUATIONS CONTAINED HEREIN:

- 1. THE PROPOSED IMPROVEMENTS WILL MAINTAIN AND NOT ALTER THE EXISTING DRAINAGE PATTERNS OF THE SITE
- 2. THE PROPOSED IMPROVEMENTS WILL NOT RESULT IN AN INCREASE IN THE DEVELOPED RUNOFF VOLUME GENERATED BY THE SITE
- 3. EROSION AND SEDIMENT CONTROL MEASURES ARE PROPOSED DURING CONSTRUCTION; BMP SELECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE CONSTRUCTION RELATED SEDIMENT DOES TO DISCHARGE FROM THE SITE TO PUBLIC RIGHT-OF-WAY.
- 4. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWNSTREAM DRAINAGE CONDITIONS
- 5. THIS PROJECT IS NOT SUBJECT TO AN EPA NPDES PERMIT
- 6. THIS PROJECT REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA
- 7. A VARIANCE TO THE REQUIREMENT TO CAPTURE AND TREAT THE FIRST FLUSH OF RUNOFF FROM THE NEW IMPERVIOUS AREA CREATED BY THIS PLAN IS REQUESTED BASED UPON THE BUILDING BEING TEMPORARY.

### **CALCULATIONS:** SITE CHARACTERISTICS A. PRECIPITATION ZONE = 2.60 B. P<sub>100, 6 HR</sub> = P<sub>360</sub> = C. TOTAL PROJECT AREA $(A_T)$ = 75,000 SF 1.72 AC D. LAND TREATMENTS 1. EXISTING LAND TREATMENT **TREATMENT** AREA (SF/AC) 0/0 8,500 / 0.20 8,500 / 0.20 58,000 / 1.32 2. DEVELOPED LAND TREATMENT AREA (SF/AC) TREATMENT 0/0 8,500 / 0.20 8,300 / 0.19 58,200 / 1.33 II. HYDROLOGY A. EXISTING CONDITION 1. VOLUME $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$ (0.66\*0.00) + (0.92\*0.20) + (1.29\*0.20) + (2.36\*1.32)/1.72 = $V_{100,6 HR} = (E_W/12)A_T =$ (2.07/12)1.72 =0.2967 AC-FT = 12,920 CF 2. PEAK DISCHARGE $Q_{P} = Q_{PA}A_{A} + Q_{PB}A_{B} + Q_{PC}A_{C} + Q_{PD}A_{D}$ $Q_P = Q_{100} = (1.87 * 0.00) + (2.60 * 0.20) + (3.45 * 0.20) + (5.02 * 1.32) =$ B. <u>DEVELOPED CONDITION</u> 1. VOLUME $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$ (0.66\*0.00) + (0.92\*0.20) + (1.29\*0.19) + (2.36\*1.33)/1.72 =2.07 IN $V_{100, 6 HR} = (E_W/12)A_T =$ (2.07/12)1.72 =0.2967 AC-FT = 12,920 CF 2. PEAK DISCHARGE $Q_{P} = Q_{PA}A_{A} + Q_{PB}A_{B} + Q_{PC}A_{C} + Q_{PD}A_{D}$ $Q_P = Q_{100} = (1.87*0.00) + (2.60*0.20) + (3.45*0.19) + (5.02*1.33) =$ 7.8 CFS C. COMPARISON VOLUME $\Delta V_{100, 6 HR} = 12,920 - 12,920 =$ (NO CHANGE) 2. PEAK DISCHARGE

(NO CHANGE)

 $\Delta Q_{100} = 7.8 - 7.8 =$ 

# **LEGEND:** UTILITY, SANITARY SEWER MANHOLE UTILITY, POWERPOLE UTILITY, LIGHT POLE UTILITY, YARD LIGHT UTILITY, ELECTRICAL BOX UTILITY, TRANSFORMER (SB) UTILITY, JUNCTION SIGNAL BOX UTILITY, GUYWIRE UTILITY, FIRE HYDRANT UTILITY, WATER VALVE UTILITY, WATER METER UTILITY, GAS METER UTILITY, SPRINKLER HEAD UTILITY, WATER VAULT UTILITY, FIBER OPTIC VAULT UTILITY, CABLE TELEVISION VAULT UTILITY, UNKNOWN VAULT UTILITY, ELECTRICAL PULLBOX UTILITY, CLEANOUT UTILITY, TRAFFIC LIGHT SCB UTILITY, SPRINKLER CONTROL BOX SITE, FLAG POLE SITE, BOLLARD SITE, GATE SITE, SIGN SITE, SIGN-BILLBOARD SITE, TRASH BIN SITE, ROOF DRAIN SITE, BUILDING COLUMN (CONCRETE) SITE, DECIDUOUS TREE SITE, BUSH SITE, HANDICAPPED PARKING SITE, CONTROL POINT SITE, SPOT ELEVATION PROPOSED SPOT ELEVATION EXISTING FLOWLINE ELEVATION +24.86 PROPOSED CONTOUR EXISTING CONTOUR PROPOSED FLOWLINE EXISTING FLOWLINE ROOF DRAINAGE EXISTING ROOF DRAINAGE PUBLIC EASEMENT LINE PROPOSED CONCRETE PROPOSED ASPHALT PAVEMENT ------

# **CONSTRUCTION NOTES:**

- 1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR
- DESIGNATION (LINE—SPOTTING) OF EXISTING UTILITIES.

  2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
- 3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH
- 4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- 5. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, TH LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLÉTE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CÓNCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR 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 ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE lines and facilities.
- 6. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.

## **EROSION CONTROL NOTES:**

- 1. THIS PLAN ADDRESSES GENERAL AND SPECIFIC MEASURES FOR CONSTRUCTION PHASE EROSION AND DUST CONTROL. REFER TO THE GRADING AND DRAINAGE PLAN PREPARED BY HIGH MESA CONSULTING GROUP., FOR GRADING NOTES AND INFORMATION.
- 2. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- 3. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET





 $\frac{\text{F.I.R.M.}}{\text{SCALE: 1"} = 500' \text{ (APPROX.)}}$ 

PANEL 352 OF 825

DATED 09/26/08

# LEGAL DESCRIPTION:

PARCEL 2-A, VAN BUREN MIDDLE SCHOOL LANDS OF BOARD OF EDUCATION

# TBM's

CONTROL POINT CP 102 ELEV: 5339.436

ELEV: 5339.436
DESCRIPTION: REBAR w/CAP
CONTROL POINT CP 104

ELEV: 5338.072
DESCRIPTION: PK NAIL
CONTROL POINT CP 106

DESCRIPTION: PK NAIL

ELEV: 5338.568

CONTROL POINT CP 103 ELEV: 5338.997 DESCRIPTION: PK NAIL

CONTROL POINT CP 105 ELEV: 5339.166 DESCRIPTION: PK NAIL

CONTROL POINT CP 107 ELEV: 5339.273 DESCRIPTION: PK NAIL

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REVISI					.G.M.	C./J.Y.R.	.W.
DATE					DESIGNED BY: J.G.M.	DRAWN BY: S.C.C./J.Y.R.	CHECKED BY: G.M.
NO.					<b>DESIG</b>	DRAW	CHEC

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CHERRY/SEE/REAMES

ARCHITECTS, PC

220 gold avenue sw albuquarque, ren 87102 505 - 842 - 1278 fax 505 - 766 - 9269

CITY OF ALBUQUERQUE ALBUQUERQUE POLICE DEPARTMENT SE AREA COMMAND MODULAR BUILDING RELOCATION									
DRAINAGE PLAN & CALCULATION	IS								
esign Review Committee	City Engineer Approval	Last Design Update	/DAY/YR. MO./DAY/YR.						
ity Project No. <b>6213</b>	Zone Map No. <b>L-19-Z</b>	Sheet CG-100	Of						

HIGH\\_\_\_\_\_\_ MESA\Consulting Group

