## **HYDROLOGY** REQUIRED FIRST FLUSH VOLUME PROPOSED CONDITIONS PROJECT SITE LOT DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED. THE PROPOSED SITE IMPROVEMENTS WILL INCLUDE THE CONSTRUCTION OF A SINGLE FAMILY RESIDENCE WITH LANDSCAPING AND ONSITE IMPROVEMENTS. A DETENTION POND WILL PROVIDE FOR THE ATTENUATION OF THE PEAK FLOW RATE TO AT OR BELOW THE LOT DEPICTED HEREON SHALL BE RESPONSIBLE FOR MAINTAINING FIRST EXISTING PEAK FLOW RATE IN THE 100 YEAR EVENT. PEAK DISCHARGE FROM FLUSH RUNOFF RETENTION ON THE LOT IMMEDIATELY PRIOR TO DISCHARGE. THE SITE WILL NOT EXCEED HISTORIC RATE OF DISCHARGE. SITE WILL CONTINUE THE VOLUME SHALL BE EQUAL TO: ROOF AREA \* (0.44-0.10)/12 IN TO DISCHARGE SIMILAR TO THE EXISTING CONDITIONS. DRAINAGE WILL BE CUBIC FEET. PROJECT SITE MITIGATED BY THE PROPOSED DETENTION PONDS. THE DISCHARGE FROM POND WILL BE RESTRICTED TO THE EXISTING ON SITE CONDITIONS OF 0.40 cfs. THE ROOF AREA = 2751 SQ.FT. ROOF, DRIVEWAY, AND AN ADDITIONAL 400 SQ.FT. FOR FUTURE IMPROVEMENTS ARE INCLUDED IN THE IMPERVIOUS AREA PERCENTAGE FOR THE LOT. REQUIRED VOLUME = 2751 \* (0.44-0.10)/12 = 78 CU.FT.VOLUME PROVIDED = 138 CU.FT.THE SITE IS COVERED BY THE SAD 228 DRAINAGE MANAGEMENT PLAN FOR UNIT 19. HOWEVER, THE LACK OF DOWNSTREAM DRAINAGE EASEMENTS HAVE DICTATED THE RESTRICTION OF FLOWS TO DETENTION POND VOLUME HISTORIC LEVELS. HYDROLOGIC DATA - EXISTING $\square$ MAX STORAGE (100-YR) = 0.012 AC-FT MAX DISCHARGE (100-YR) = 0.40 CFS (0.40 CFS ALLOWABLE) LAND TREATMENT Q100 (cfs) **BASINS** AREA YIELD MAXIMUM WATER SURFACE ELEVATION (100-YR)= 5342.18 PERCENTAGES BY TYPE (acres) SITE 0.33 100 0 0 0 1.19 0.40 0.011 HYDROLOGIC DATA - PROPOSED LAND TREATMENT YIELD Q100 (cfs/ac) (cfs) **BASINS** AREA V 100-24 PERCENTAGES BY TYPE (acft) PATO ROAD (50' R/W) FIRM MAP NO. 35001C0112G VICINITY MAP F-17-Z 0.33 0 32 33 35 2.88 0.96 0.035 **GENERAL NOTES:**1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE CURR STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, UPDATE NO 8. (N66°55'00"E (100.00') 2. THE EROSION PROTECTION SPECIFIED ON THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS N67°15'16"E ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR 100.00 SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF SIDEWALK TC 43.54 ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN. TC 44.17-/ ELEVATION=5343.39 3. THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBLITY OF THE PROPERTY OWNER. TBM ELEVATION=5345.88 4. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEEDED OR LANDSCAPED 5. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES. 6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE. OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE **N22°49** (N23°05'0 LTC 42.94<sup>-</sup> CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE FF=5346.00 UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE. ું B**₩=4**0. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFET 600"E **\** WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY FG 40 OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GND ENGINEERING, LLC IN 11 LF 6" PVC SL=1.0% B, BLOCK 7 THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND ' INV. IN = 42.80 LIABILITY WHICH RESULTS. - PROVIDE 8" x 16" WALL OPENING (\$.3327 ACRES **EROSION CONTROL NOTES** 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION. FG 39. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITES IS THE RESPONSIBILITY OF THE CONTRACTOR. **145:09** (145:00') FF=5344.00 5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT. 145. 1**4**5. SEP 3 0 2014 DETENTION POND 100 VOL = 539 cu.ft.**VOLCANO CLIFFS UNIT 18** LAND DEVELOPMENT SECT CITY OF ALBUQUERQUE BERNALILLO EARTHWORK (CY) COUNTY, NEW MEXICO COMPACTED FILL: 1,086 10224 Green River Place NW Albuquerque, NM 87114 Phone: (505)-264-0472 Fax: (505)-899-6184 NET FILL: 1,086 CU.YE CONSULTING ENGINEERS CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT LEGEND \_ 23 LF 6" PVC SL=25.0% <sup>-</sup> ENGINEERING DIVISION 6504 PATO RD Nw FLOW ARROW - FIRST FLUSH POND LOT 8, BLOCK 7, VOLCANO CLIFFS UNIT 18 EL=11.28 PROPOSED ELEVATION $\sqrt{VOL} = 138 \text{ cu.ft.}$ GRADING & DRAINAGE PLAN EXISTING ELEVATION MONTH/DAY/YEAR USER DEPARTMENT GRADE BREAK 4966——— PROPOSED CONTOUR 99.86 LOT 12 (100.00') PROPERTY LINE PROPOSED GRADE CITY PROJECT No. ZONE MAP No. SHEET LOT 11 LOT 10 1" = 10'D - 101 OF 1