

DRAINAGE PLAN

SCOPE:

Pursuant to the latest City of Albuquerque Ordinance, the Drainage Plan shown hereon outlines the drainage management criteria for controlling developed runoff on and exiting the project site. One building is proposed for the subject property, with associated access, parking and landscaping.

EXISTING CONDITIONS:

Presently the 0.78 acre site is developed. The site is bounded on the north by Constitution Ave, on the east by Second Street, on the south by Kinley Ave. and on the west by private property. The site is level. As shown by the FEMA Map Panel No. 332, dated 1998, the site is not located in a 100-year floodplain. Second Street is shown as being in a 100-year floodplain, but the City has installed storm drainage improvements (AMDS Systems 128-02B and 128-04B) which have eliminated the floodplain. No offsite runoff enters the property.

PROPOSED CONDITIONS:

As shown by the plan, the building site is located along the west side of the property. On site flows will drain around the structure and flow to the east. All roof drainage will discharge from the roof to the east parking lot and continue to flow to Second Street via concrete curb openings/channels and sidewalk culverts. Runoff will continue to be allowed to free discharge to the adjacent streets, since the increase in runoff due to development is less than 10%.

Supplemental calculations have been provided to the City of Albuquerque Hydrology Department.

CALCULATIONS:

The calculations shown hereon define the 100 year/6 hour design storm falling within the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, New Mexico in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority, latest edition.

Existing Treatment Types:

Treatment A = 0 acres
 Treatment B = 0 acres
 Treatment C = 0.33 acres
 Treatment D = 0.45 acres

Proposed Treatment Types:

Treatment A = 0.00 acres
 Treatment B = 0.11 acres
 Treatment C = 0.00 acres
 Treatment D = 0.67 acres

Using the values above produces the following storm water flows and volumes:

Existing 100-year Flow = 3.15 cfs
 Proposed 100-year Flow = 3.40 cfs

Existing 100-year Volume = 4817 cu. ft.
 Proposed 100-year Volume = 5468 cu. ft.

PROPERTY ADDRESS:

Second Street NW

TOPOGRAPHY:

Topographic information provided by Marquez Surveying Company, dated September 1998.

GENERAL GRADING NOTES:

- THE CONTRACTOR SHALL OBTAIN A TOP SOIL DISTURBANCE PERMIT FROM THE CITY OF ALBUQUERQUE, ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS TO REFER TO THE EARTHWORK SPECIFICATIONS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED FOR THIS LOT AND CAN BE OBTAINED BE THE OWNER.
- THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS, PERMITS AND APPROVALS.
- PVC DRAINAGE PIPES MAY REQUIRE FIELD ADJUSTMENT DUE TO SUBSURFACE ROCK. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE TO INLET/STREET.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY CONDITIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- TWO WORKING DAYS PRIOR TO EXCAVATION THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- CONTRACTOR SHALL PROVIDE DOUBLE CLEAN-OUTS AT ALL BENDS IN DRAINAGE PIPE.
- THE TOPSOIL COULD BE SAVED ASIDE FOR RE-USE IN FILLING DISTURBED AREAS AROUND THE STRUCTURE.
- ALL DISTURBED AREAS ON THE LOT SHALL BE RESEEDED WITH NATIVE SEEDING MATERIAL.
- THE MAXIMUM GRADED SIDE SLOPE SAHLL NOT EXCEED 3 FEET (HORIZONTALLY) TO 1 FOOT (VERTICALLY)
- AREAS DISTURBED DUE TO GRADING SHALL BE RESEEDED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STD. SPECIFICATION 1012 - NATIVE GRASS SEEDING, O.A.E.



VICINITY MAP

ZONE ATLAS: J-14

GRADING AND DRAINAGE PLAN CERTIFICATION:

The completed Grading and Drainage Plan substantially complies with the approved Grading and Drainage Plan.

Jackie S. McDowell, P.E.
 NMPE #10903



LEGEND

	EXISTING	PROPOSED
CONTOUR	5900	5850
WALL		
PROPERTY LINE		
EASEMENT		
METER		
CURB AND GUTTER		
SPOT ELEVATION		
AS-BUILT ELEV.		57.9

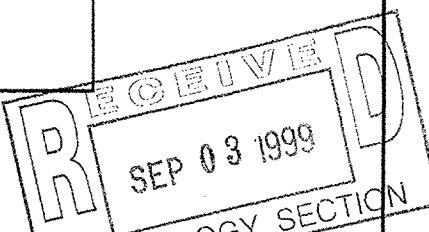
S.O. 19 NOTES

- NOTICE TO CONTRACTOR
- An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
 - All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Interim Standard Specifications for Public Works Construction, 1986 as amended through the latest edition.
 - Two working days prior to any excavation, contractor must contact New Mexico One Call System, 260-1990, for location of existing utilities.
 - Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all constructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
 - Backfill compaction shall be according to _____ street use.
 - Maintenance of these facilities shall be the responsibility of the Owner of he property served.

PRIVATE DRAINAGE FACILITIES WITHIN CITY RIGHT OF WAY

DESIGN APPROVAL	Hydrology Section	Date
INSPECTION APPROVAL	Trans./Street Maint.	Date
ACCEPTANCE	Construction Mgt. Div.	Date

ROUTE AS-BUILT DWG. TO MAPS AND RECORDS
 ROUTE 1-COPY OF AS-BUILT TO HYDROLOGY SECTION



CITY OF ALBUQUERQUE, BERNALILLO COUNTY

LOTS 1-6, 15-18, BLOCK 7
 PARIS ADDITION

STEWART BUILDING DEVELOPMENT

McDowell Engineering Inc.

Designed	JSM	Drawn	STAFF	Checked	JSM	Sheet	of
File	STE0198L	Date	NOVEMBER, 1998			1	1

