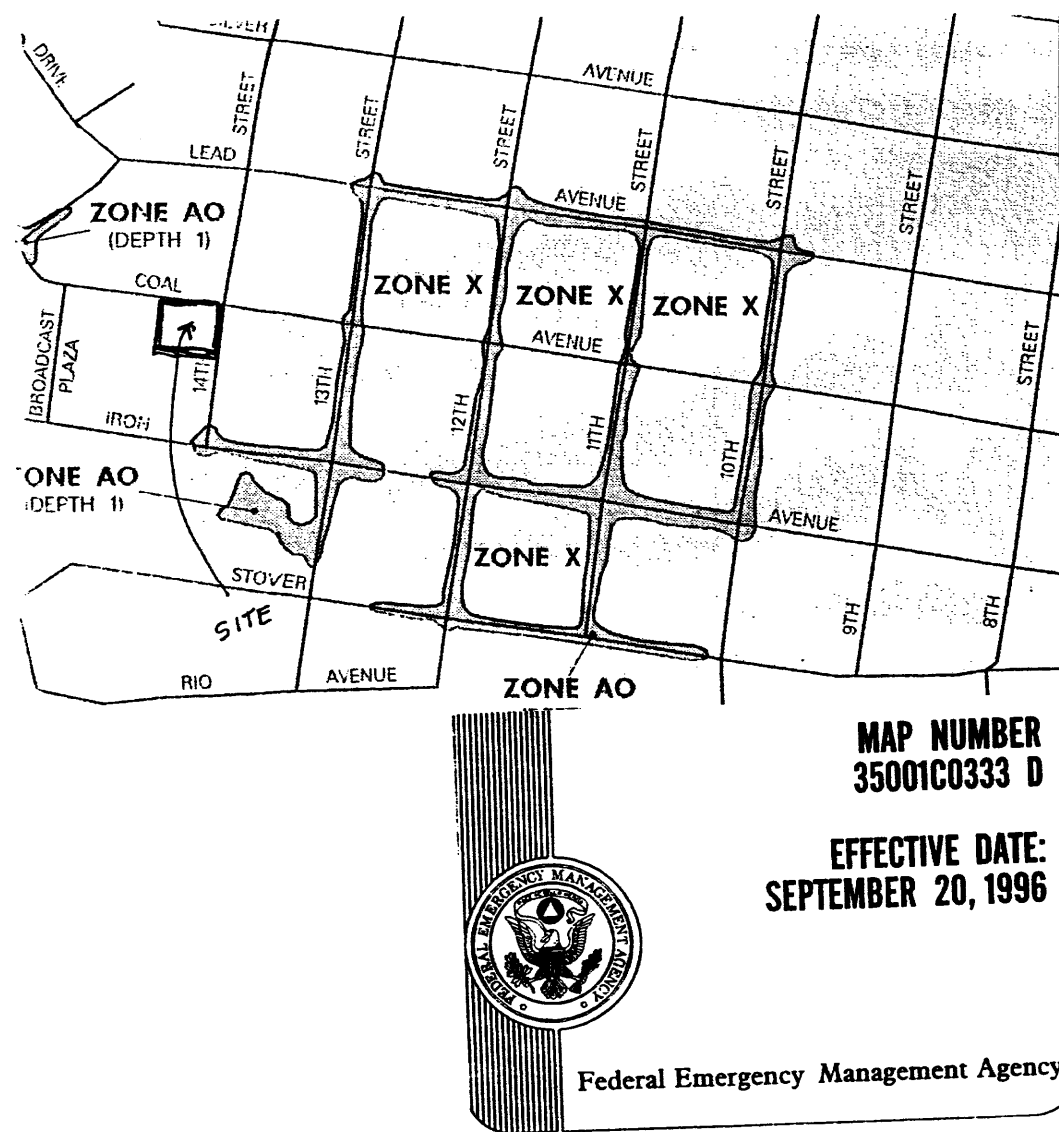




Zone Atlas Page  
**K-13-Z**  
Map Amended through  
February 28, 1998



CATHOLIC SOCIAL S AREA AC 0.56 ac.

ZONE 2 1410 COAL SW  
PRECIPITATION: 360 = 2.35 in.  
1440 = 2.75 in.  
10day = 3.95 in.

TREATMENT	EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in.	1.56 cfs/ac.
TREATMENT B	0.78 in.	2.28 cfs/ac.
TREATMENT C	1.13 in.	3.14 cfs/ac.
TREATMENT D	2.12 in.	4.70 cfs/ac.

EXISTING CONDITIONS:	PROPOSED CONDITIONS:
TREATMENT A	0 ac.
TREATMENT B	0 ac.
TREATMENT C	0.02 ac.
TREATMENT D	0.54 ac.

**EXISTING EXCESS PRECIPITATION:**

Weighted E = ( 0.53 )x( 0.00 )+( 0.78 )x( 0.00 )+( 1.13 )x( 0.02 )+( 2.12 )x( 0.54 )/ 0.56  
= 2.08 in.  
V100-360 = ( 2.08 )x( 0.56 )/ 12 = 0.097127 ac-ft = 4231 cf

**EXISTING PEAK DISCHARGE:**

Q100 = ( 1.56 )x( 0.00 )+( 2.28 )x( 0.00 )+( 3.14 )x( 0.02 )+( 4.70 )x( 0.54 )= 2.60

**PROPOSED EXCESS PRECIPITATION:**

Weighted E = ( 0.53 )x( 0.00 )+( 0.78 )x( 0.00 )+( 1.13 )x( 0.02 )+( 2.12 )x( 0.54 )/ 0.56  
= 2.08 in.  
V100-360 = ( 2.08 )x( 0.56 )/ 12.0 = 0.097283 ac-ft = 4238 cf

V100-1440 = ( 0.10 )+( 0.54 )x( 2.75 - 2.35 )/ 12 = 0.115283 ac-ft = 5022 cf

V100-10day = ( 0.10 )+( 0.54 )x( 3.95 - 2.35 )/ 12 = 0.169283 ac-ft = 7374 cf

**PROPOSED PEAK DISCHARGE:**

Q100 = ( 1.56 )x( 0.00 )+( 2.28 )x( 0.00 )+( 3.14 )x( 0.02 )+( 4.70 )x( 0.54 )= 2.60

**GRADING/PAVING PLAN**

The following items concerning 1410 Coal Ave. SW ( Lot 1-7 Block 45 Huning Castle Addition ) Catholic Social Services of Albuquerque are contained hereon:

1.) Grading/Paving Plan 2.) Vicinity Map 3.) Drainage Calculations

**EXISTING CONDITIONS**

As shown by the vicinity map, the site contains approximately .5607 acres of offices, associated landscaping and paved parking. The site is located on the Southwest Quadrant of the intersection of Coal Avenue SW and 14<sup>th</sup> St. SW. According to the Flood Insurance Rate Map, Panel 0333D, Dated September 20, 1996, this site is not located within a designated Flood Zone.

**PROPOSED CONDITIONS**

The existing asphalt areas are to be pulverized and repaved to or close to the existing grades. The plan indicates the grades which are to be followed. The new calculations reflect the new drainage criteria which is in effect at this time. The calculations hereon; analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The procedures for 40 acres 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 generated.

**DOWNSTREAM CONDITIONS**

There is an existing single "C" inlet just east of the eastern driveway, which accepts the flows from this site.

