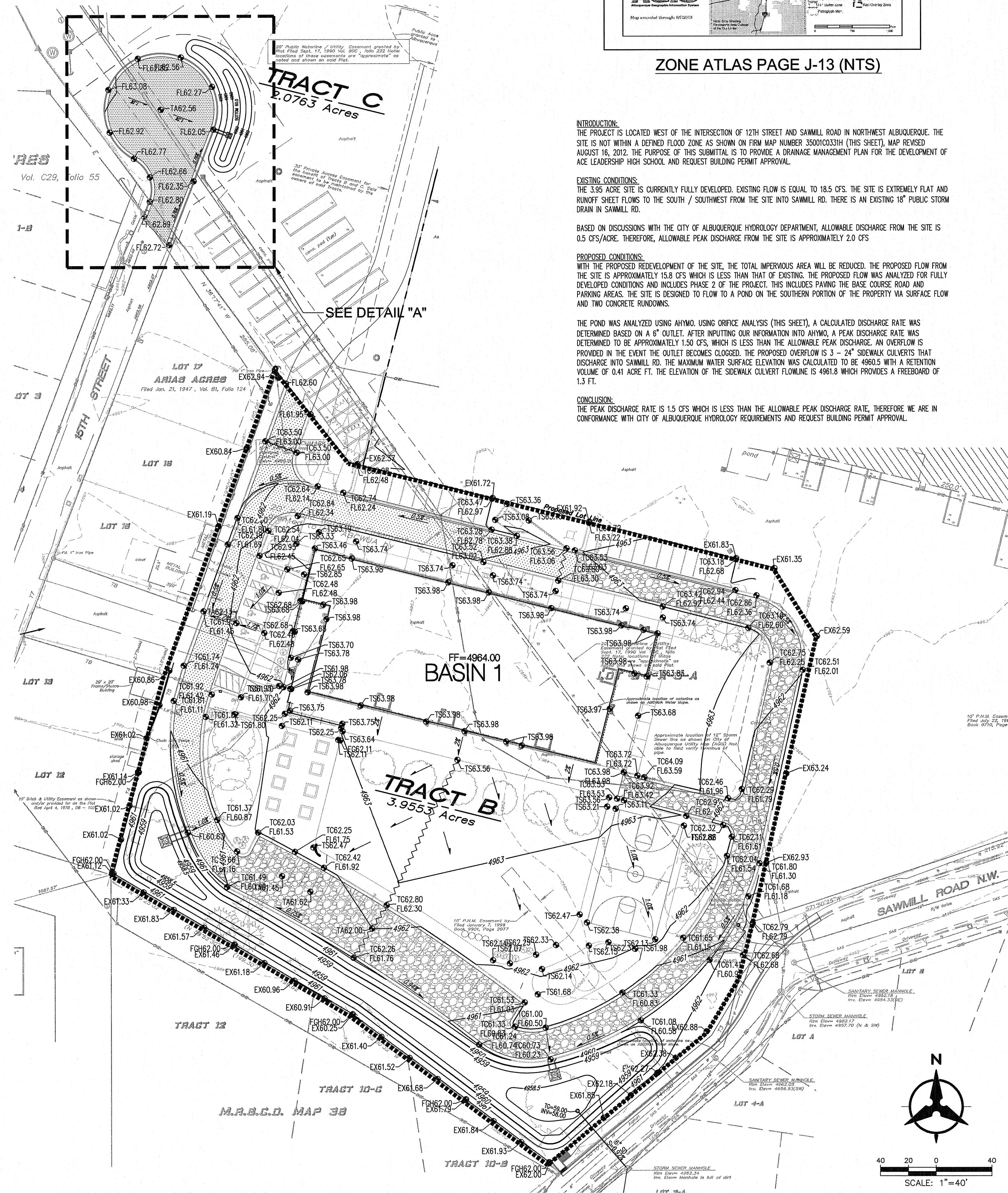


FIRM MAP #FM35001C0331H (NTS)



ZONE ATLAS PAGE J-13 (NTS)



DRAINAGE MANAGEMENT PLAN

P:\20140224\CDP\Hydro\Proposed DMP.dwg  
Thu, 3-Apr-2014 - 8:31 am, Plotted by: BORTEGA

ACE LEADERSHIP HIGH SCHOOL											
Existing Conditions Basin Data Table											
This table is based on the DPM Section 22.2, Zone: 2											
Basin ID	Area (Sq. Ft)	Area (Ac.)	Land Treatment Percentages				Q(100yr) (cfs/ac.)	Q(100yr-8hr) (CFS)	WT E (inches)	V(100yr-8hr) (CF)	V(100yr-10day) CF
			A	B	C	D					
Existing											
EXB1	172215	3.95	0.0%	0.0%	2.0%	98.0%	4.67	18.46	2.10	30140	52643
TOTAL	172215	3.95									52643

ACE LEADERSHIP HIGH SCHOOL											
Proposed Ultimate Development Conditions Basin Data Table											
This table is based on the DPM Section 22.2, Zone: 2											
Basin ID	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages				Q(100yr) (cfs/ac.)	Q(100yr-8hr) (CFS)	WT E (inches)	V(100yr-8hr) (CF)	V(100yr-10day) CF
Proposed											
B1	172215	3.95	0.0%	0.0%	45.0%	55.0%	4.00	15.81	1.67	24031	36660
TOTAL	172215	**3.95									**36660

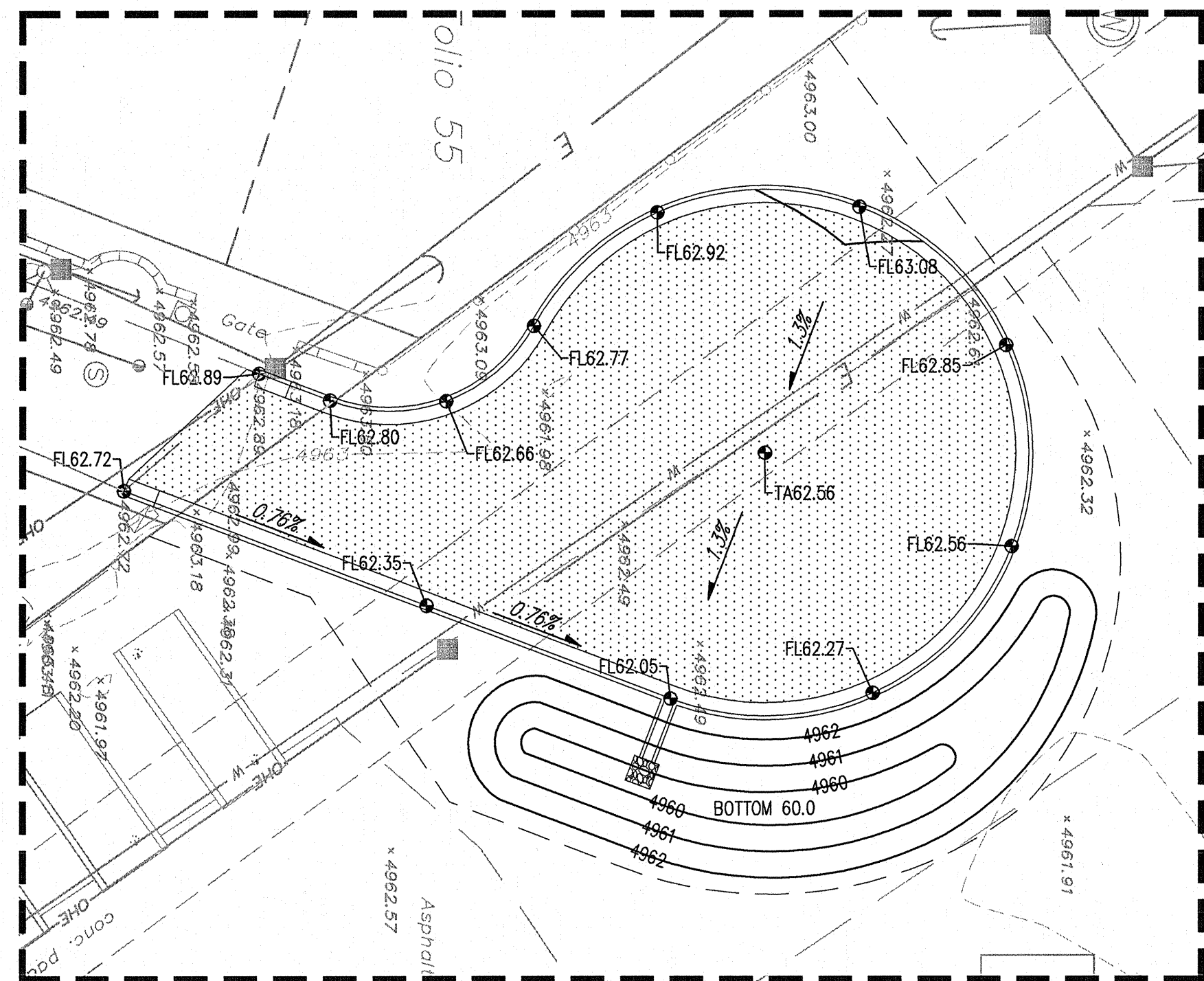
POND 1 - ORIFICE ANALYSIS		
100 YEAR - 6 HOUR STORM		
Orifice Coefficient		0.62
Orifice Diam (inches)		8
Outflow (cfs)	Head (ft)	Water Surface Elevation
0.0	0.00	4958.00
0.5	0.25	4958.50
0.8	0.75	4959.00
1.1	1.25	4959.50
1.3	1.75	4960.00
1.5	2.25	4960.50
1.8	2.75	4961.00

POND 1 - STORAGE - DISCHARGE TABLE				
ELEVATION	AREA (SF)	VOLUME (CF)	VOLUME (AC-FT)	CALCULATED DISCHARGE (CFS)
4958.0	0	0	0.00	0.0
4958.5	0	0	0.00	0.5
4959.0	9000	0	0.00	0.8
4959.5	10800	4875	0.11	1.1
4960.0	12900	10900	0.28	1.3
4960.5	14850	17813	0.41	1.5
4961.0	20800	26750	0.61	1.6

\* HEAD MEASURED FROM CENTER OF PIPE  
\* OUTFLOW IS BASED ON 1-6" PIPE

\* HEAD MEASURED FROM CENTER OF PIPE  
\* OUTFLOW IS BASED ON 1-6" PIPE

AHYMO PROGRAM SUMMARY TABLE (AHYMO-S4)									
- Ver. 54.01a, Rel: 01a RUN DATE (MON/DAY/YR) = 04/02/2014									
INPUT FILE = P:\20140224\CDP\Hydro\AHYMO\2014-03-11\100YR.HYM USER NO. = AHYMO Temp User: 20122010									
COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ. MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE
									1
*S AHYMO FILE FOR ACE LEADERSHIP HIGH SCHOOL - ALBUQUERQUE, NM, BH PROJ # 20140224									
*S 100 YEAR - 24 HOUR STORM									
*S INPUT FILE -- P:\20140224\CDP\HYDRO\AHYMO\100YR.HYM									
*S OUTPUT FILE -- P:\20140224\CDP\HYDRO\AHYMO\100YR.OUT									
*S START TIME=0									
*S LOCATION ALBUQUERQUE									
*S RAINFALL TYPE=1 NOAA 14									
*S *****									
*S *S COMPUTE BASIN EXISTING CONDITIONS									
*S COMPUTE NM HYD									
	EXB1	-	1	0.00617	18.44	0.687	2.08758	1.5	4.671 PER IMP= 98.00
*S *****									
*S *S COMPUTE BASIN DEVELOPED CONDITIONS									
*S COMPUTE NM HYD									
	B1	-	2	0.00617	16.52	0.56	1.70287	1.5	4.184 PER IMP= 55.00
*S ROUTE BASIN B1 TO POND 1. OUTFLOW BASED ON 6" ORIFICE									
*S ROUTE RESERVOIR									
	POND1	2	10	0.00617	1.5	0.561	1.70383	2.05	MAX VOLUME= 0.410 AC-FT



DETAIL "A" (15TH STREET)

ACE LEADERSHIP HIGH SCHOOL (15th St. Cul De Sac)											
Proposed Ultimate Development Conditions Basin Data Table											
This table is based on the DPM Section 22.2, Zone: 2											
Basin ID	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages				Q(100yr) (cfs/ac.)	Q(100yr-8hr) (CFS)	WT E (inches)	V(100yr-8hr) (CF)	V(100yr-10day) CF
Proposed											
B1	6559	0.15	0.0%	0.0%	0.0%	100.0%	4.70	0.71	2.12	1159	2033
TOTAL	6559	**0.15									***2033

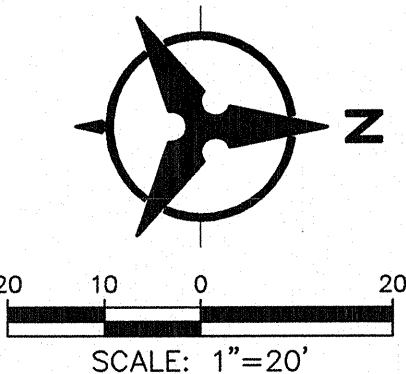
EXISTING CONDITIONS:  
THE 15TH STREET CUL DE SAC IS CURRENTLY FULLY DEVELOPED. THE SITE IS EXTREMELY FLAT AND RUNOFF SHEET FLOWS TO THE SOUTH / SOUTHWEST.

PROPOSED CONDITIONS:  
WITH THE PROPOSED REDEVELOPMENT OF THE SITE, THE TOTAL IMPERVIOUS AREA WILL BE REDUCED. THE PROPOSED FLOW FROM THE SITE IS APPROXIMATELY 0.7 CFS. THE CUL DE SAC IS DESIGNED TO FLOW TO A POND ON THE EASTERN PORTION OF THE PROPERTY VIA SURFACE FLOW AND A CONCRETE RUNDOWN.

IT WAS DETERMINED THAT THE 100YR - 10 DAY VOLUME TO BE 2033 CF (SEE ABOVE). THE POND PROVIDED IS DESIGNED TO BE APPROXIMATELY 2345 CF WHICH IS MORE THAN THE ANALYSIS REQUIRED.

CONCLUSION:  
THE PEAK VOLUME IS FULLY RETAINED WITHIN THE PUBLIC ROADWAY EASEMENT, THEREFORE WE ARE IN CONFORMANCE WITH CITY OF ALBUQUERQUE HYDROLOGY REQUIREMENTS AND REQUEST BUILDING PERMIT APPROVAL.

NOTE: CURB & GUTTER, PAVING, AND GRADING FOR THE 15TH STREET CUL-DE-SAC IS SHOWN FOR INFORMATION ONLY. GRADING & CUL-DE-SAC TO BE CONSTRUCTED UNDER CITY WORK ORDER. CPN 725182.



ACE LEADERSHIP HIGH SCHOOL  
1225 SAWMILL RD NW  
ALBUQUERQUE, NM 87104

NO	DATE	DESCRIPTION
1	04-03-2014	PROJECT #:
2		DRAWN BY:
3		CHD BY:

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PROPOSED DRAINAGE MANAGEMENT PLAN