

VICINITY MAP

LEGAL DESCRIPTION

A PORTION OF TRACTS U, Q & 7 AND AN UNIDENTIFIED 8.7 ACRE TRACT COMPILED PLAT OF SCHWARTZMAN PACKING CO. AKA TRACT 22 & A PORTION OF TRACT 23 SCHWARTZMAN INDUSTRIAL PARK, CITY OF ALBUQUERQUE BERNALILLO COUNTY, NEW MEXICO

ACS BENCHMARK

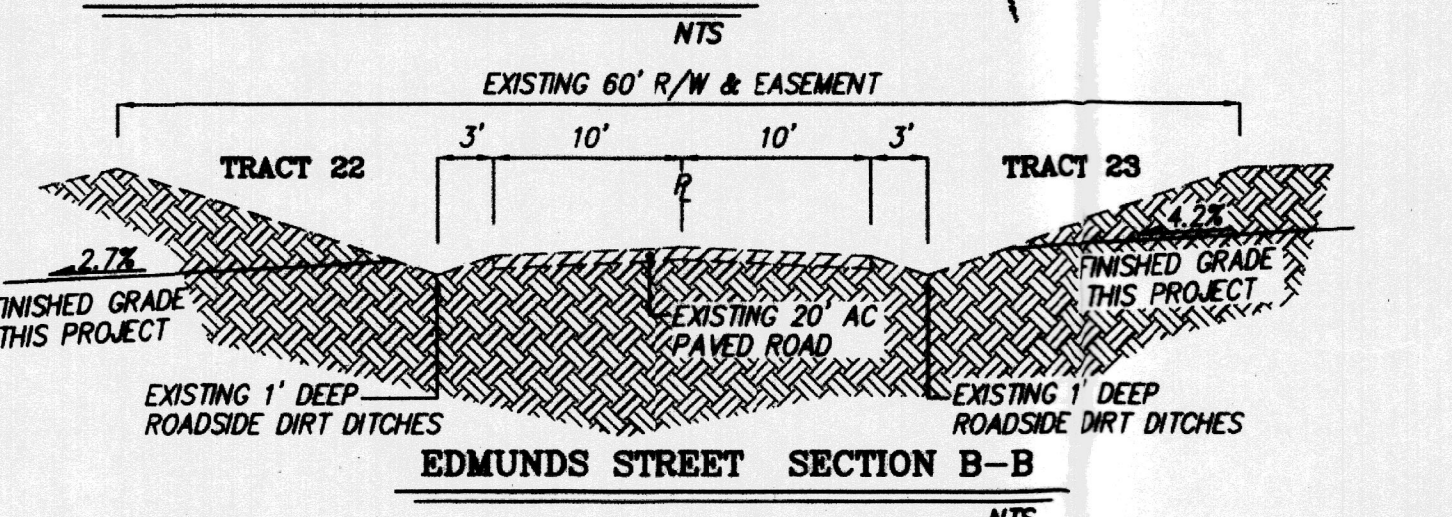
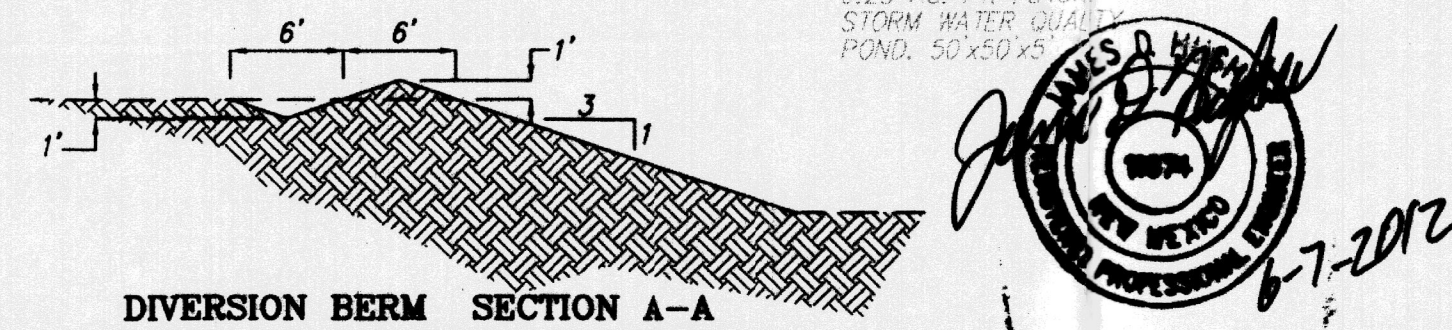
AMAFCA Brass Cap stamped "SDC-11-2" From the intersection of Gibson Boulevard and Broadway Boulevard SE travel south on Broadway Boulevard 0.8 miles to Woodward Street; turn left on Woodward Street; travel east 0.3 miles to the AMAFCA South Diversion Channel. The station is 120 feet southwest. Geographic Position and Orthometric Height, in feet N.M. State Plane Coordinates (Central Zone) N=1473121.414, E=1523234.378 (NAD83) Elevation=5001.664 (NAVD88)

LEGEND

- EXISTING RETAINING/WING WALL
- EXISTING SPOT ELEV.
- EXISTING BOLLARDS
- EXISTING ELECTRIC VAULT/PULL BOX
- EXISTING MANHOLE
- EXISTING SAS MANHOLE
- EXISTING SD MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING MONITOR WELL
- EXISTING UNDERGROUND TELEPHONE
- EXISTING ELECTRIC METER
- EXISTING CONCRETE CURB
- EXISTING CONCRETE/SIDEWALK
- EXISTING TOP CURB/FLOWLINE
- EXISTING GAS MARKER
- EXISTING GUY WIRE
- EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING STREET LIGHT POLE
- EXISTING UTILITY PULLBOX
- NEW SPOT ELEV.
- NEW CONTOURS
- NEW GRADE HINGE LINE
- NEW DRAINAGE BASIN
- FLOOD PLAIN - ZONE AH ELEV. = 5001 EFFECTIVE 9-26-2012

GRADING AND DRAINAGE NOTES

- THE OWNER, "WE THE PEOPLE, LLC," PLANS TO IMPROVE THE UTILITY OF THE TWO TRACTS, TRACT 22-20.3773 ACRES IN BERNALILLO COUNTY (CO) AND TRACT 23-5.2034 ACRES IN THE CITY OF ALBUQUERQUE (CO), BY GRADING THEM. THE OWNER HIRED MARK GOODWIN AND ASSOCIATES TO PREPARE THIS GRADING AND DRAINAGE PLAN TO OBTAIN GRADING PERMITS IN ACCORDANCE WITH THE GRADING PROVISIONS IN THE ORDINANCES OF BOTH THE COA AND BERN CO.
- DRAINAGE MANAGEMENT PLAN
  - ON-SITE STORM WATER RUNOFF WILL FREE DISCHARGE INTO THE SOUTH DIVISION CHANNEL AT THE EXISTING CONCRETE BAFFLED CHUTES ON THE WEST EDGE OF THIS PROPERTY.
  - OFF-SITE RUNOFF FROM A 4.2 ACRE PORTION OF 1-25, BASINS 106A AND 108B AS SHOWN ON THE LOCAL DRAINAGE BASIN MAP, ENTER THE EAST SIDE OF THE SITE AS SURFACE DRAINAGE, AND DRAINS WEST ACROSS THE SURFACE OF TRACT 22 THRU ON-SITE BASINS 106C AND 108D TO EDMONDS STREET WHERE IT IS DIVERTED SOUTH IN EDMONDS STREET TO A LOW WATER CROSSING OF EDMONDS STREET AT THE SOUTH EDGE OF THIS SITE, WHERE IT IS JOINED BY DRAINAGE FROM OFF-SITE BASINS 107A AND 107B. THE COMBINED DRAINAGE GOES WEST IN AN EXISTING 60' PUBLIC RIGHT-OF-WAY TO THE EAST EMBANKMENT OF THE SOUTH DIVISION CHANNEL WHICH DIVERTS THE DRAINAGE NORTH TO THE AIRPORT ARROYO POND WHICH DRAINS WEST INTO THE SOUTH DIVISION CHANNEL THROUGH AN EXISTING BAFFLED CHUTE.
  - OFF-SITE RUNOFF FROM BASINS 400 THRU 407 AND 501 THRU 518 AS SHOWN ON THE AIA BASIN MAP PASSES THROUGH THIS SITE UNDERGROUND IN THE AIRPORT ARROYO 8' X 6' CBC AT A PEAK 100 YEAR FLOW RATE OF 880 CFS AS SHOWN ON AMAFCA'S AS-BUILT RECORDS.
  - OFF-SITE RUNOFF FROM BASINS 101 THRU 103 AS SHOWN ON THE LOCAL DRAINAGE BASIN MAP IS DIVERTED NORTH IN EDMONDS STREET ALONG THE WEST EDGE OF THIS SITE AND DRAINS NEITHER INTO THIS SITE NOR INTO THE SOUTH DIVISION CHANNEL, BUT INSTEAD CROSSES OVER THE SOUTH DIVISION CHANNEL ON TOP OF THE WOODWARD ROAD BOX CULVERTS AND CONTINUES WEST OF THE SOUTH DIVISION CHANNEL IN WOODWARD ROAD.
- STORM WATER QUALITY PONDS ARE SIZED FOR THE FIRST FLUSH (0.44" PRECIPITATION) ASSUMING 80% IMPERVIOUS COVER IN ANTICIPATION OF FUTURE INDUSTRIAL DEVELOPMENT. THE PONDS ARE SHOWN ON THIS PLAN FOR INFORMATION ONLY, AND ARE NOT TO BE CONSTRUCTED UNTIL FURTHER DEVELOPMENT OCCURS.
- ALL DISTURBED AREAS WILL BE STABILIZED WITH NATIVE SEED AND MULCH OR WITH GRAVEL, SURFACING FOR PERMANENT EROSION CONTROL.
- A PORTION OF THIS PROPERTY IS AFFECTED BY A FLOODPLAIN AS SHOWN ON CURRENT EFFECTIVE FIRM MAP NUMBER 35001C0342G, REVISED 9-26-2008. THE SOURCE OF FLOODING, THE AIRPORT ARROYO, WAS CONTAINED BY THE 8' CBC AND ASSOCIATED SOIL CEMENT DETENTION POND CONSTRUCTED IN 1986. SO THE AH(5001) FLOOD HAZARD AREA AS MAPPED ON TRACT 22 IN BERNALILLO COUNTY, REMOVAL OF THE FLOODPLAIN BY LOMR IS NOT INCLUDED IN THE SCOPE OF THIS PROJECT. THE FLOODPLAIN MAY BE REMOVED BY A SEPARATE PROJECT AT A LATER DATE.
- THE TOPOGRAPHIC SURVEY, BY ALDRICH LAND SURVEY, WAS RECEIVED APRIL 2012, AND IS ON NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE), NAD 83, AND IS NOT A BOUNDARY SURVEY.
- EASEMENTS AND BOUNDARY SHOWN HEREON ARE BASED ON ALTA & BOUNDARY SURVEY BY CARTESIAN SURVEYS, INC., DATED 12/22/2010. ADDITIONAL EASEMENTS ARE BASED ON RECORDS PROVIDED BY ALDRICH LAND SURVEYING AND INCLUDE PORTIONS OF EASEMENTS TO GENERAL ELECTRIC, GE, FOR WATER AND ELECTRIC LINES, MONITORING WELLS, AND OTHER APURTENANCES BEING USED BY GE TO PERFORM REMEDIAL ACTIVITIES AS REQUIRED BY THE EPA.
- EARTHWORK IS EXPECTED TO BALANCE WITHOUT ANY IMPORT OR EXPORT. CONTRACTOR MAY ADJUST GRADES TO BALANCE. ALL FILL SHALL BE COMPACTED IN ACCORDANCE WITH THE EARTHWORK PROCEDURES SHOWN ON THIS PLAN OR SEPARATE EARTHWORK SPECIFICATIONS AS DIRECTED BY THE OWNER AND HIS GEOTECHNICAL ENGINEERING CONSULTANTS.
- I, JAMES D. HUGHES, P.E. # 11674, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE ON 4/20/2012 AND TO THE BEST OF MY KNOWLEDGE THE EXISTING TOPOGRAPHY SHOWN HEREON, ACCORDINGLY REFLECTS ACTUAL SITE CONDITIONS.



SUNPORT PROPERTY UTILITIES GRADING & DRAINAGE PLAN

MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS  
P.O. BOX 90606  
ALBUQUERQUE, NEW MEXICO 87199  
(505)828-2200, FAX (505)797-9539

Designed: JGH	Drawn: ACH	Checked: DMG	Sheet 1 of 2
Scale: 1" = 1'	Date: 04/12	Job: A11052	

1. AMAFCA Approval?  
2. Future Long-term approval?  
3. Flows from 103 into 104, not toward changes  
4. How do Southern boundary flows turn 90° and travel flows north to Airport pond?  
5. It's hard to read  
6. Several AIA's shown  
7. B-B not visible  
8. Street capacity analysis  
9. Runoff calcs



## GENERAL

## EARTHWORK PROCEDURES

THE GEOTECHNICAL ENGINEER SHALL BE THE OWNER'S REPRESENTATIVE TO OBSERVE AND EVALUATE THE EARTHWORK OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH THE GEOTECHNICAL ENGINEER IN THE PERFORMANCE OF THE ENGINEER'S DUTIES.

## CLEARING AND GRUBBING

PRIOR TO PLACING STRUCTURAL FILL ALL BORROW AREAS AND AREAS TO RECEIVE STRUCTURAL FILL SHALL BE STRIPPED OF VEGETATION AND DELETERIOUS MATERIALS. STRIPPINGS SHALL BE HAULED OFFSITE OR STOCKPILED FOR SUBSEQUENT USE IN LANDSCAPED AREAS OR NONSTRUCTURAL FILL AREAS AS DESIGNATED BY THE OWNER OR HIS REPRESENTATIVE AND APPROVED BY THE GEOTECHNICAL ENGINEER.

## SITE PREPARATION - FILL AREAS

PRIOR TO PLACING STRUCTURAL FILL THE AREAS TO BE FILLED SHALL BE SCARIFIED TO A DEPTH OF EIGHT INCHES AND MOISTURE CONDITIONED AS DESCRIBED BELOW. THE AREA TO BE FILLED SHALL THEN BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. IF VIBRATORY COMPACTION TECHNIQUES POSE A THREAT TO THE STRUCTURAL INTEGRITY OF NEAR BY FACILITIES A STATIC COMPACTOR SHALL BE USED. ANY SOFT OR "SPONGY" AREAS SHALL BE REMOVED AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND REPLACED WITH STRUCTURAL FILL AS DESCRIBED HEREIN.

## SITE PREPARATION - CUT AREAS

FOLLOWING EXCAVATION TO ROUGH GRADE, ALL BUILDING AND PAVEMENT AREAS SHALL BE SCARIFIED TO A DEPTH OF EIGHT INCHES AND MOISTURE CONDITIONED AS DESCRIBED BELOW. ALL BUILDING AND PAVED AREAS SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. IF VIBRATORY COMPACTION TECHNIQUES POSE A THREAT TO THE STRUCTURAL INTEGRITY OF NEAR BY FACILITIES, A STATIC COMPACTOR SHALL BE USED. ANY SOFT OR "SPONGY" AREAS SHALL BE REMOVED AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND REPLACED WITH STRUCTURAL FILL AS DESCRIBED HEREIN.

## FILL MATERIAL

FILL MATERIAL SHALL BE NON EXPANSIVE SOIL WHICH MAY BE GRAVEL, SAND, SILT OR CLAY, OR A COMBINATION THERE OF.

SIEVE SIZE	PERCENT PASSING BY WEIGHT
4"	100
1"	90-100
NO. 4	70-100
NO. 200	10-40

FILL MATERIAL SHALL EXHIBIT A PLASTICITY INDEX OF TEN OR LESS. NO ORGANIC, FROZEN OR DECOMPOSABLE MATERIAL SHALL BE UTILIZED. ALL FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.

## FILL PLACEMENT

FILL MATERIAL SHALL BE BLENDED AS NECESSARY TO PRODUCE A HOMOGENEOUS MATERIAL. FILL MATERIAL SHALL BE SPREAD IN HORIZONTAL LIFTS NO GREATER THAN EIGHT INCHES IN UNCOMPACTED THICKNESS, BUT IN NO CASE THICKER THAN CAN BE PROPERLY COMPACTED WITH THE EQUIPMENT TO BE UTILIZED. IF FILL IS TO BE PLACED ON SLOPES STEEPER THAN 5:1 (HORIZONTAL:VERTICAL) THE NATURAL GROUND SHALL BE BENCHMARKED WITH MINIMUM THREE FOOT WIDE BENCHMARKS AT MAXIMUM TWO FOOT VERTICAL INTERVALS.

## MOISTURE CONDITIONING

FILL MATERIAL SHALL BE DRIED OR MOISTENED AS NECESSARY, PRIOR TO COMPACTING, TO WITHIN + THREE PERCENT OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-1557. MOISTURE SHALL BE DISTRIBUTED UNIFORMLY THROUGHOUT EACH LIFT.

## COMPACTION

STRUCTURAL FILL SHALL BE MECHANICALLY COMPACTED TO THE FOLLOWING:

FOUNDATION SUPPORT	MINIMUM COMPACTION ASTM D-1557
SLAB SUPPORT	95%
BELOW SLAB UTILITY TRENCHES	95%
GENERAL SITE GRADING	90%
PAVEMENT SUPPORT	95%
UPPER 8" OF SUBGRADE	95%
ALL OTHER FILL BELOW PAVEMENT	90%

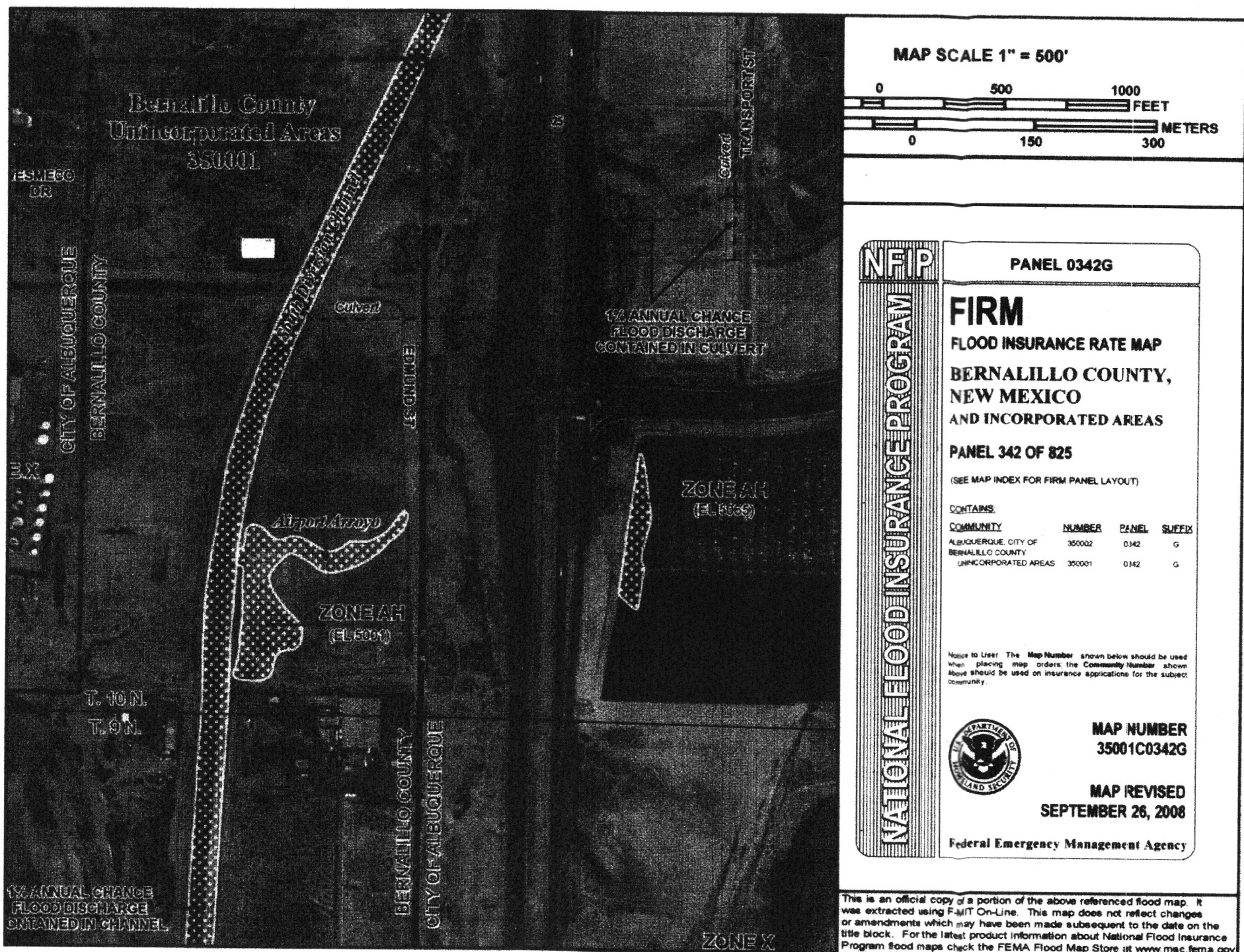
AGGREGATE BASE COURSE SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557.

ASPHALTIC CONCRETE SHALL BE COMPACTED TO A MINIMUM OF 96% OF MAXIMUM MARSHALL DENSITY (75 BLOWS).

COMPACTION BY FLOODING AND JETTING IS SPECIFICALLY PROHIBITED UNLESS AUTHORIZED IN ADVANCE BY THE OWNER OR HIS REPRESENTATIVE AND THE GEOTECHNICAL ENGINEER.

## OBSERVATION AND TESTING

THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE SHALL PERFORM FIELD DENSITY TESTS WITH A FREQUENCY AND AT THE LOCATIONS HE FEELS APPROPRIATE. THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE WILL PERFORM PROCTOR TESTS ON REPRESENTATIVE SAMPLES OF ALL FILL MATERIAL. TO MINIMIZE DELAYS, THE EARTHWORK CONTRACTOR IS ENCOURAGED TO SUBMIT SOIL SAMPLES PRIOR TO USE FOR PROCTOR TESTING.



FIRM MAP

## GENERAL NOTES

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, AND/OR AMAFCA RIGHT OF WAYS AND EASEMENTS.

2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #8.

3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (280-1980) AND GENERAL ELECTRIC (300-XXXX) FOR LOCATION OF EXISTING UTILITIES.

4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SIGNIFICANT GENERAL ELECTRIC UTILITY RELOCATION MAY BE REQUIRED. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE UTILITY OPERATOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

5. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (824-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

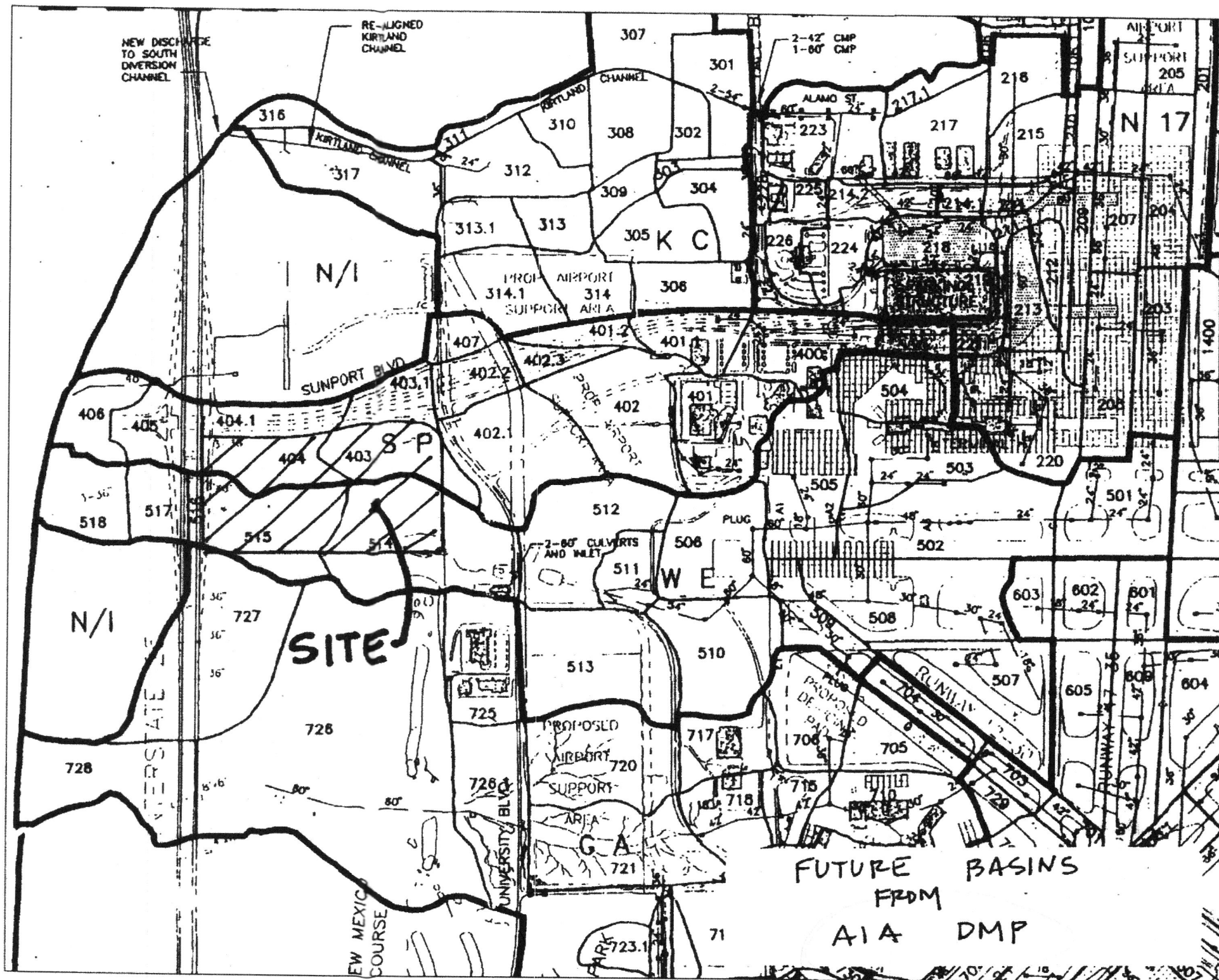
6. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURE TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENT WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED. CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

7. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACT SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

8. THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT [HTTP://ABCWU.ORG/CONTENT/VIEW/463729](http://abcwau.org/content/view/full/463729)

9. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT WITH THE OSHA 29 CFR 1926.850 SUBPART P.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE, AMAFCA, AND BERNALILLO COUNTY.



AIA BASIN MAP



LOCAL DRAINAGE BASIN MAP

HYDROLOGY SUMMARY TABLE																		
BASIN		AREA	Ground Cover (%)				Peak 100-YR Flow Q <sub>100</sub> (cfs)				100-YR Volume (ac-ft)				2-YR Volume (ac-ft)		SWQ Volume (ac-ft)	
ID	(Ac)	(Sq mi)	A	B	C	D	Incremental	Cumulative	Incremental	Cumulative	Incremental	Cumulative	Incremental	Cumulative	Incremental	Cumulative		
Pre-Development Conditions																		
81701	101	1.8	0.00293	85	0	15	0	3.95	3.95	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	
38507	102A	0.9	0.00138	0	0	80	40	3.80	7.56	0.11	0.11	0.03	0.03	0.03	0.03	0.02	0.02	
294008	102B	6.7	0.01055	0	0	80	40	27.52	35.08	0.86	0.86	0.23	0.23	0.23	0.23	0.13	0.15	
272767	103	6.3	0.00878	20	0	85	15	21.10	56.18	0.60	0.60	0.11	0.11	0.07	0.08	0.21	0.21	
302086	104	6.9	0.01084	75	0	25	0	15.71	15.71	0.39	0.39	0.02	0.02	0.01	0.01	0.01	0.01	
186852	105	4.3	0.00670	90	0	5	5	9.04	9.04	0.23	0.23	0.02	0.02	0.01	0.01	0.01	0.01	
127356	106A	2.9	0.00457	10	0	40	50	11.92	11.92	0.38	0.38	0.11	0.12	0.01	0.01	0.06	0.06	
58481	106B	1.3	0.00210	20	0	80	0	4.21	16.13	0.11	0.11	0.01	0.01	0.01	0.01	0.01	0.01	
72988	106C	1.7	0.00262	80	0	10	10	8.17	20.55	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	
151897	106D	3.5	0.00545	80	0	10	10	9.93	26.22	0.22	0.22	0.03	0.03	0.16	0.16	0.02	0.06	
426863	107A	9.8	0.01530	80	0	10	10	22.95	61.17	0.61	0.61	0.08	0.08	0.24	0.04	0.14	0.24	
259228	107B	6.0	0.00930	50	0	25	25	18.17	57.34	0.53	0.53	0.12	0.36	0.04	0.04	0.14	0.24	
402483	108	9.2	0.01444	90	0	10	0	18.74	88.08	0.45	0.45	0.01	0.37	0.01	0.01	0.21	0.21	
Post-Development Conditions																		
81701	101	1.8	0.00293	85	0	15	0	3.95	3.95	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	
38507	102A	0.9	0.00138	0	0	80	40	3.80	7.56	0.11	0.11	0.03	0.03	0.02	0.02	0.02	0.02	
294008	102B	6.7	0.01055	0	0	80	40	27.52	35.08	0.86	0.86	0.23	0.23	0.26	0.13	0.15	0.15	
272767	103	6.3	0.00878	20	0	85	15	21.10	56.18	0.60	0.60	0.11	0.11	0.37	0.08	0.21	0.21	
302086	104	6.9	0.01084	0	0	20	80	32.64	32.64	1.11	1.11	0.38	0.38	0.21	0.21	0.21	0.21	
186852	105	4.3	0.00670	0	0	20	80	20.19	20.19	0.69	0.69	0.24	0.24	0.13	0.13	0.13	0.13	
127356	106A	2.9	0.00457	10	0	40	50	11.92	11.92	0.38	0.38	0.11	0.11	0.08	0.08	0.06	0.06	
58481	106B	1.3	0.00210	20	0	80	0	4.21	16.13	0.11	0.11	0.01	0.01	0.12	0.01	0.01	0.01	
72988	106C	1.7	0.00262	0	0	20	80	7.89	24.01	0.27	0.78	0.09	0.22	0.05	0.12	0.05	0.12	
151897	106D	3.5	0.00545	80	0	10	80	16.41	40.42	0.56	1.32	0.19	0.41	0.11	0.23	0.11	0.23	
426863	107A	9.8	0.01530	80	0	10	10	22.95	63.37	0.61	1.93	0.08	0.49	0.04	0.27	0.04	0.27	
259228	107B	6.0	0.00930	50	0	25	25	18.17	81.54	0.53	2.47	0.12	0.60	0.07	0.34	0.07	0.34	
402483	108	9.2	0.01444	0	0	20	80	43.48	125.02	1.48	3.95	0.51	1.11	0.28	0.62	0.28	0.62	
100-YR Tbl A-9 Zone 2 1.87(2.80)3.45(3.02) Peak Discharge (cfs/acre)																		
100-YR Tbl A-8 Zone 2 0.53(0.78)1.13(2.12) Excess Precipitation (in)																		
2-YR Tbl A-8 Zone 2 0.00(0.02)0.15(0.79) Excess Precipitation (in)																		
SWQV Tbl A-8 Zone 2 0.00(0.00)0.09(0.44) Excess Precipitation (in)																		



## SUNPORT PROPERTY UTILITIES GRADING & DRAINAGE PLAN

MARK GOODWIN & ASSOCIATES, P.A.  
CONSULTING ENGINEERS  
P.O. BOX 90606  
ALBUQUERQUE, NEW MEXICO 87199  
(505)828-2200, FAX (505)797-9539

Designed: JDH Drawn: ACH Checked: DMG Sheet 2 of 2  
Scale: 1" = 1' Date: 04/12 Job: A11052