2 3 4 5 6 7 8 9 10 11 12 13 14 15 26-11404.122-091

> **CANNED BY** PLANNING

# DEVELOPMENT PLANS FOR CONSTRUCTION OF ALLEY BETWEEN

BELLROSE AVENUE N.W. AND FREEMAN AVENUE N.W.

4501 FOURTH STREET N.W. ALBUQUERQUE, NEW MEXICO

# UTILITY COMPANY CONTACTS

BUSINESS	PHONE/E-MAIL	PERSON	
ABCWUA P.O. Box 1293 Alb., NM 87102	Office phone: (505)768-2729 Office fax: (505)768-3629 nmusinski@cabq.gov	Nancy Musinski <b>Prin</b> . Engr., Utilities Dev.	
AT&T 111 3rd Street NW Alb., NM 87103	Office phone: (505)842—2911 Office fax: (505)842—2890 dcrowel@att.com	David Crowell Resource Supervisor	
Comcast 4611 Montbel NE Alb., NM 87107	Office phone: (505)761-6235 Office fax: (505)761-0599 rita_erickson@cable.comcast.com	Rita Erickson Planning and Design Supervisor	
Xspedius Management Co. 505 Marquette NW, Suite 1605 Alb., NM 87102	Office phone: (505)998-2220 Office fax: (505)345-6559 steve.merrill@xspedius/com	Steve Merrill	
BCG Assets 721 4th Street NW Alb., NM 871	Office phone: (505)243—2153 Office fax: (505)314—0900 john@bcgassets.com	John Brown Operations Manager	
MCI Worldcom 6001 Midway Park NE Alb., NM 87109	Office phone: (505)346-4470 Office fax: (505)346-4481 andy.darnell@mci.com	Andy Darnell Operations Manager	
McLeod USA 505 Marquette NW, Suite 1600 Alb., NM 87102	Office phone: (505)244-3161 Office fax: (505)244-0094 Cell Phone: (505)228-3329 rdmueller@mcleodusa.com	Rick Mueller Supervisor of Outside Techs.	
New Mexico Utilities 4700 Irving NW, Suite 201 Alb., NM 87114	Office phone: (505)898-2661 Office fax: (505)898-6379 sbates@ecoresources.com	Steve Bates	·
PNM-Electric 4201 Edith NE MS-ES61 Alb., NM 87107	Office phone: (505)241-3581 Office fax: (505)241-0559 jhill@pnm.com	Jim Hill	
PNM-Gas 4625 Edith NE Alb., NM 87107	Office phone: (505)241—7752 Office fax: (505)241—7740 kbouska@pnm.com	Kelly Bouska District Engineer	
Time—Warner Telecom 3830 Singer NE, Suite 1000 Alb., NM 87109	Office phone: (505)938-7339 Office fax: (505)938-7380 Royal.Harrison@twtelcom.com	Royal Harrison Plant Manager	
Qwest 400 Tijeras NW, Room 710 Alb., NM 87102	Office phone: (505)245—8352 Office fax: (505)245—6733 michael.velarde@qwest.com	Michael Velarde Manager Engineering	APPROVED AS RECORD DRAWINGS DEAGN REVIEW SECTION
Qwest Long Distance 400 Tijeras NW, Suite 570 Alb., NM 87102	Office phone: (505)246-0501 Office fax: (505)246-0479 larry.kelly@qwest.com	Larry Kelly Senior Operations Tech.	DATE: 03/24/09

### **GENERAL NOTES**

- 1. All work detailed on these plans to be performed under this contract shall, except as otherwise stated or provided for herein, be constructed in accordance with the details and specifications of "City of Albuquerque Standard Specifications for Public Works Construction, 1986 Edition" as amended through update No. 7, including Addendum No. 1.
- 2. Seven (7) working days prior to beginning utility construction, the Contractor shall submit to Construction Coordination Division a detailed construction schedule. Two (2) working days prior to the start of consturction, the Contractor shall obtain a barricading permit from Bernalillo County and Contractor shall notify the Construction Coordination Engineer (924-3400) prior to occupying any intersection. Refer to Section 19 of the General Conditions of the Standard Specifications.
- 3. An Excavation Permit and Grading and Paving Permit will be required before beginning any work within County right-of-way.
- 4. Two working days prior to any excavation, the Contractor shall contact the New Mexico One Call System, 260-1990, for location of existing lines.
- 5. All street striping altered or destroyed shall be replaced with preformed thermoplastic reflectorized pavement markings by the Contractor. Striping shall be placed in the pre-construction location or as indicated by this plan set.
- 6. Prior to construction, the Contractor shall excavate and verify the horizontal and vertical location of all obstructions including existing utilities. Should a conflict exist, the Contractor shall notify the Engineer or Surveyor so that the conflict can be resolved with a minimum
- 7. Contractor shall coordinate with Water Systems Division (857-8200) seven working days in advance of any work that may affect existing public water or sewer utilities. Existing valves to be operated by ABCWUA personnel only. Contractor shall contact Water Systems Division seven working days prior to needing valves turned on or off.
- 8. All water lines to be PVC C900 or DR-18.
- 9. The Contractor will not be allowed to use Class IV or V soils for embedment of flexible pipe. The Contractor will not be allowed to deflect joints in flexible pipe. Any deflections required to meet horizontal or vertical alignment will be achieved between joints.
- 10. Back fill compaction requirements shall be according to City of Albuquerque Standard
- 11. The Contractor shall assume responsibility for any damage to existing pavement, pavement markings, curb and gutter, drivepads, wheel chair ramps and sidewalk during construction, apart from those sections indicated for removal on the plans; and shall repair or replace damaged items per City of Albuquerque Standards at the Contractor's own expense.
- 13. Contractor shall record data on all utility lines and accessories as required by the City of Albuquerque Standards for the preparation of "As Constructed" drawings. Contractor shall not cover utility lines and accessories until all data has been recorded.
- 14. All existing signs, markers, delineators, etc., within the construction limits shall be removed, stored and reset by the Contractor.
- 15. The Contractor shall notify the Engineer not less than seven (7) days prior to starting work in order that the Engineer may take necessary measures to insure the preservation of survey monuments. Contractor shall not disturb permanent survey monuments without the consent of the Engineer and shall notify the Engineer and bear the expense of replacing any that may be disturbed without permission. Replacement shall be done only by the City
- 16. The Contractor will be responsible for disposing of all debris, including but not limited to hazardous waste at disposal sites approved by governmental agencies regulating the disposal
- 17. All excavation will be governed by Federal State and Local laws, rules and regulations concerning construction safety and health.
- 18. All signs and coding will be in accordance with the "Manual of Uniform Traffic Control Devices" 2003 Edition.
- 19. Contractor will make all water valves and manholes accessible to ABCWUA at all times.
- 20. Contractor will confine his work, equipment, supplies and employee parking within the designated construction limits and/or public right-of-way.
- 21. The Contractor agrees to take necessary safety precautions as required by Federal, State and Local Authorities to protect pedestrian and vehicular traffic in the construction area, which includes but is not limited to: maintaining adequate warning signs, barricades, lights, guard fences, walks and bridges.
- 22. All excavating, trenching and shoring activities must be carried out in accordance with OSHA 29CFR 1926.650, Subpart P.
- 23. The Contractor shall perform all work in accordance with the National Pollutant Discharge Elimination System (NPDES) and site specific Storm Water Pollution Prevention Plan (SWPPP) requirements.
- 24. The Contractor shall be responsible for providing & maintaining all construction signing until the project has been accepted by the City of Albuquerque.
- 25. If human remains are discovered on the site, all construction will cease and the office of the Medical Examiner must be contacted for further instructions.
- 26. The Contractor shall assume responsibility for any damage to existing private property including fencing, walls, landscape or other structures.

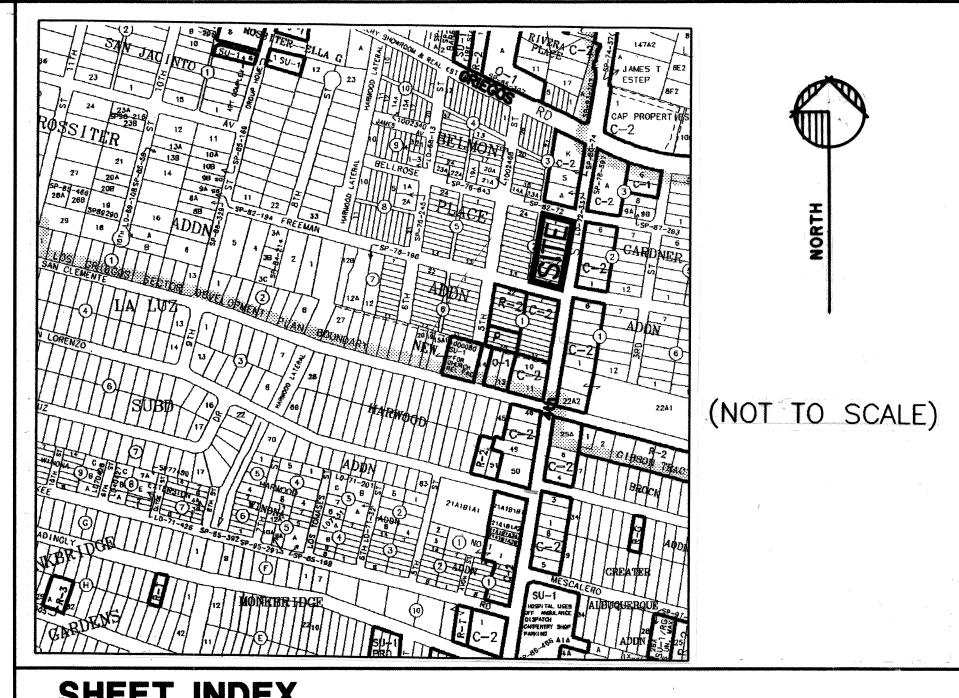
#### ENGINEER'S CERTIFICATION

1, THOMAS D. JOHNSTON, OF THE FIRM OF TGC ENGINEERING INC., DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT THE INFRASTRUCTURE INSTALLED AS PART OF THIS PROJECT HAS BEEN INSPECTED BY ME AND HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE CITY ENGINEER AND THAT THE ORIGINAL PEGIGN INTENT OF THE APPROVED PLANS HAS BEEN MET. THIS CERTIFICATION IS BASED ON SITE INSPECTIONS BY ME AND SURVEY INFORMATION PROVIDED BY THOMAS W. PATRICK, N.M.P.S. 12561 AND EDITED ONTO SHEET 3 OF THIS PLANSET.





## VICINITY MAP NO. G-14-Z

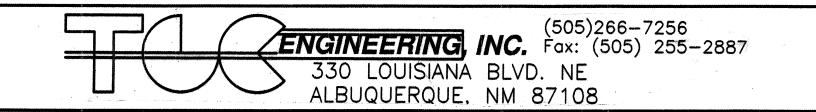


### SHEET INDEX

SHEET NO.

1	COVER SHEET	
2	PLAT	
3	ALLEY PLAN & PROFILE	
4	GRADING AND DRAINAGE PLAN	
	(INFORMATIONAL PURPOSES ONLY)	

SHEET DESCRIPTION



REV. SHEETS COUNTY DATE USER DEPT. DATE USER DEPT. DATE **APPROVAL ENGINEER** DATE APPROVED FOR ENGINEER'S SEAL & Woodall CONSTRUCTION 8/22/08 DRC CHAIRMAN TRANSPORTATION 8-11-08 7-29-08 HYDROLOGY 6-2-08 ABCWUA

5.12.08

CONSTR. MNGMT. CONSTR. COORD.

CITY PROJECT NO. 7404.82

SHEET

BELNAONT PLACE, SCANNED BY PLANNING AN ADDITION TO THE CITY OF

ALBUQUERQUE,

BERNALILLO COUNTY, NEW MEXICO

SCALE I NCH. 100 FEET SURVEYED & PLATTED COTOBER SES BY J. S. M. P. C. B. Martings, Owner Clerk of Bernoville Courses. there begins no herein custify that the trop on majori e description and maker the prevarious of Chapter M. New Mexico System Laces 1988, of a mappillad for Passelle Monyary 1824 BELLROSE N76º 14'W AVE. 23 HARWOOD FREEMAN The foregoing sub-division of that centain tract of landwaituate as School District M. 12 of Bernatilla County, New Mexica and particularly described as related bearinging at the Newtonian Section as the Westely 17.8 the North E. St. Street Public Highway and the Southerly Line of the Griegos Reference the Buarter court between 5 and 38, T. 10 and 11 N., R. 35, N. M. P.M. bears No. 25 N. 1970 and distant, and tunn thence along said Westerly line of N Fourth St, S. 6.55 N., 995 6 feet to the SE corner No. 3 thence N. 76'14 W. 1014.5 feet to the SW corner No.3, thence N. 76'14 W. 1014.5 feet to the SW corner No.3, thence N. 76'14 W. 1014.5 feet to the SW corner No.3, thence N. 76'14 W. 1014.5 feet to the SW corner No.3, thence N. 76'14 W. 1014.5 feet to the SW corner No.3, thence N. 76'14 W. 1014.5 feet to the SW corner No.3, thence N. 76'14 W. 1014.5 feet to the SW corner No.3, thence N. 76'14 W. 1014.5 feet to the SW corner No.3, thence N. 76'14 W. 1014.5 feet to the SW corner No.3, thence N. 76'14 W. 1014.5 feet to the SW corner No.3, thence N. 76'14 W. 1014.5 feet to the SW corner No.3, thence N. 76'14 W. 1014.5 feet to the SW corner No.3, thence N. 76'14 W. 1014.5 feet to the SW corner No.3, the nce N. 76'14 W. 1014.5 feet to the SW corner No.3, the nce N. 76'14 W. 1014.5 feet to the SW corner No.3, the nce N. 76'14 W. 1014.5 feet to the SW corner No.3, the nce N. 76'14 W. 1014.5 feet to the SW corner No.3, the nce N. 76'14 W. 1014.5 feet to the SW corner No.3, the nce N. 76'14 W. 1014.5 feet to the SW corner No.3, the nce N. 76'14 W. 1014.5 feet to the SW corner No.3, the nce N. 76'14 W. 1014.5 feet to the SW corner No.3, the nce N. 76'14 W. 1014.5 feet to the SW corner No.3, the nce N. 76'14 W. 1014.5 feet to the N. 76'14 W. 1014.5 feet to the SW corner No.3, the nce N. 76'14 W. 1014.5 feet to the N. 76'14 W. 1014.5 feet to corner Nº 4, a point on the Southerly line of said Griegos Rosa, Thence plang said Road S 66º 13 E, 826 feet to corner Nº 5 theore 5.64º 12' E, 909 8 feet to the place ginning, surveyed and sub-divided, as hereon shown inclosed by broken lines, thus comprising blocks I to 10 inclusive of the Belmont Place is with the free consent and in accordance with the desires of the undersigned owners and proprietofs County of Bernalillo . 27hd January #24

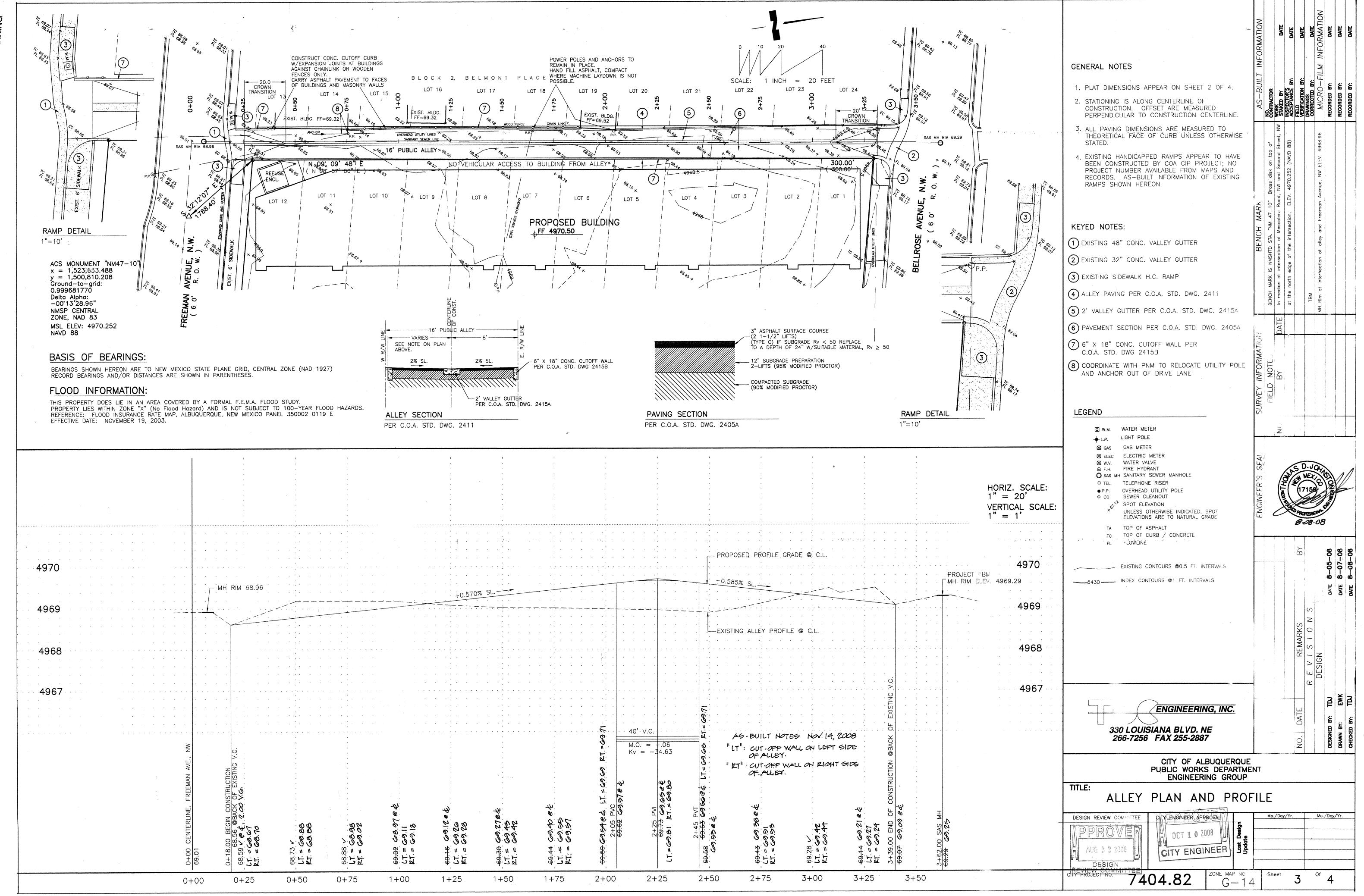
On this see day of fortess tass personally appeared before me J.L. Bell

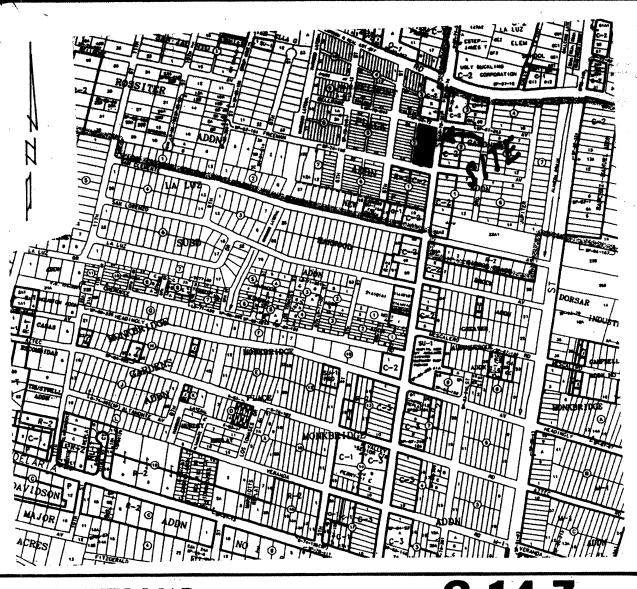
end t from a R Bell, his wife, to me know to be the persons described in and who executed the foregoing instrument, and weknowledged that they executed the

u just f

same as their free act and dead.

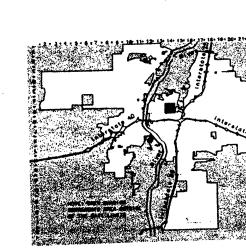
	AS BUILT INFORMATION	CONTRACTOR	WORK STAKED BY DATE			DRAWINGS CORRECTED BY DATE	MICRO-FILM INFORMATION	RECORDED BY DATE	NO.	
	BENCH MARKS		BENCH MARK IS NMSHTD STA, "NM_47_10" Brass disk on top of	In median at intersection of Mescalero Road, NW and Second Street, NW	at the north edge of the intersection, ELEV. 4970.252 (NAVD 88)		TBM STATES	MH Rim at intersection of alley and Freeman Avenue, NW ELEV. 4968.96		
	SURVEY INFORMATION	FIELD NOTES	NO. BY DATE		{ }					
	ENGINEER'S SEAL		A THOUSING THOS	No.	A CA	58		ONE		A.
				7	REMARKS	REVISIONS	DESIGN	DATE	DATE	DATE
230 LOUISIANA BLVD. NE 266-7256 FAX 255-2887  CITY OF ALBUQUEI PUBLIC WORKS DEPAI ENGINEERING GRO	RT	NEI	NT		NO. DATE			DESIGNED BY	DRAWN BY	CHECKED BY
DESIGN REVIEW COMMITTEE  CITY PROJECT NO. 7404.82  CITY PROJECT NO. 7404.82  ZONE MAP NO. G-14-7	7	SH	M		2	EAR OF		<b>4</b>	Y/YE	EAR





VICINITY MAP

G-14-Z



CURB BUTTLE PERCOA.

FREEMAN AVE. N.W.

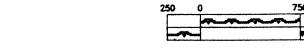
DESIGNATIVEWS . TON

THY CONTINUOTION WHINE

ME Super see C.O.A. BELLROSE AVE. N.W.

LOCATION MAP

TYP. HC. SIGN DETAIL



THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUNOFF DURING CONSTRUCTION; HE SHALL ENSURE THAT THE FOLLOWING MEASURES ARE

- 1) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SUBJECT SITE AND ENTERING ADJACENT PROPERTIES.
- 2) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SUBJECT SITE. NO SEDIMENT BEARING VATER SHALL BE PERMITTED TO ENTER PUBLIC STREET RIGHT-OF-WAYS.
- 3) THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT FROM PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SUBJECT SITE AND DEPOSITED THEREON.

- 1) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-1990 FOR THE ACTUAL FIELD LOCATION OF THE EXISTING SURFACE OF SUB-SURFACE UTILITIES.
- 2) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION(S) OF ALL POTENTIAL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF
- 3) ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4) ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE  ${\bf ALBUQUERQUE/BERNALILLO\ COUNTY\ STANDARDS\ AND\ PROCEDURES.}$

TOP OF CURB ELEVATION = 72 = 69.2/ CURB FLOWLINE ELEVATION = # = G8.G4

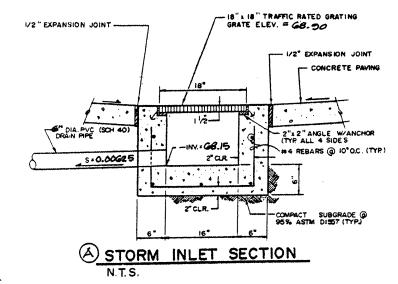
EXISTING SPOT ELEVATION = • -- 69\_ EXISTING CONTOUR ELEVATION = \_\_ - 69.0 \_ \_ \_ PROPOSED SPOT ELEVATION = ♦ 1000

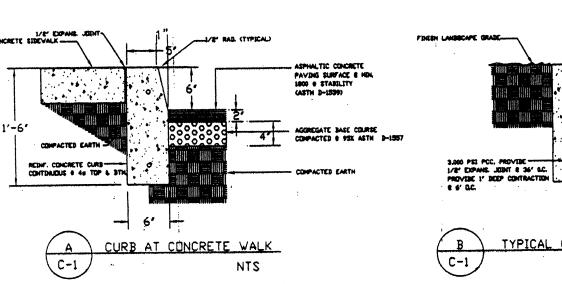
PROPOSED OR EXISTING CONCRETE SURFACE = 5:

EXISTING FENCE LINE = × × × A PROPOSED LANDSCAPE AREA

1) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.

2) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD OTHER THAN





#### LEGAL DESCRIPTION:

LOTS ONE (1) THROUGH TWELVE (12), INCLUSIVE, IN BLOCK TWO (2), OF BELMONT PLACE ADDITION, TO THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

### BENCHMARK REFERENCE:

ACS STATION "NM47-10"; PROJECT T.B.M. AS SHOWN ON THE PLAN HEREON.

HOTE: LAYOUT OF PROPOSED IMPROVEMENTS SHALL BE PER "LICHITECTS SITE PLAN".



Drainage Facilities within City Right-of-Way Notice to Contractor 1. An excavation permit will be required before beginning any work within City Right-

PROJECT T.B.M.E TOP OF M.H. RIM

ELEV. = 4968.96

2. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.

3. Two working days prior to any excavation, the contractor must contact the line locating service, New Mexico One Call 260-1990, for the location of existing utilities 4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay. 5. Backfill compaction shall be according to traffic/street use.

6. Maintenance of the facility shall be the responsibility of the owner of the property being served.7. Work on arterial streets shall be performed on a 24-hour basis.

> APPROVALS NAME HYDROLOGY INSPECTOR

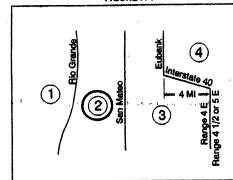
NOTE: ALL WORK WITHIN PUBLIC EASEMENT SHALL BE PERFORMED UNDER SEPARATE



ernalillo County's four precipitation zones are indicated in TABLE A-1 and on

	TABLE A-1, PRECIPITATION ZONES
Zone	Location
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
3	Between San Mateo and Eubank, North of Interstate 40; and between San Mateo and the East boundary of Range 4 East, South of Interstate 40
4	East of Eubank, North of Interstate 40; and East of the East boundary of Range 4 East, South of Interstate 40

FIGURE A-1



zone boundary use the zone which contains the largest portion of the **DPM SECTION 22.2 - HYDROLOGY** 

Treatment	Land Condition
·A	Soil uncompacted by human activity with 0 to 10 percent slopes.  Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundcover and infiltration capacity.  Croplands. Unlined arroyes.
8	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes.  Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent
C	Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.

treatments, measure respective subareas. In lieu of specific measurement for treatment D, the areal percentages in TABLE A-5 may be employed.

			TABLE A-0.	PEAK DISCHAR	GE (cfe/acre)	
	A-10. PEAK INTENSITY (MAIR at t <sub>c</sub> = 0.2 hour) 100-YR		×)	Treat	ment	100-YR [ 2-YR, 10-YR ]
Zone	Intensity [2-YR, 10-YR] 4.70	Zona	٨	В	С	Ď
	[1.84, 3.14]	1	1.29	2.03	2.87	4.37
2	5.05 { 2.04, 3.41 }	<del></del>	1.56	2.28	[ 0.47, 1.49 ] 3.14	[1.69, 2.89] 4.70
3	5.38	<b>②</b>	[ 0.00, 0.38 ]	[ 0.08, 0.95 ]	[0.60, 1.71]	[1.86, 3.14]
4	[ 2.21, 3.65 ] 5.61	3	1.87 [ 0.00, 0.58 ]	2.60 { 0.21, 1.19 }	3.45 [0.78, 2.00]	5.02 [2.04, 3.39]
	[2.34, 3.83]	4	2.20 [ 0.06, 0.87 ]	2.92 [ 0.38, 1.45 ]	3.73 { 1.00, 2.26 }	5.25 [ 2.17, 3.57 ]

#### DRAINAGE COMMENTS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED ON THE WEST SIDE OF FOURTH ST. N.W. BETWEEN BELLROSE AVE. N.W. AND FREEMAN AVE. N.W., IN THE CITY OF ALBUQUERQUE, NEW MEXICO.

THE SUBJECT SITE, 1.) IS PRESENTLY A VACANT SITE THAT OLD BUILDINGS AND ASSOCIATED IMPROVEMENTS HAVE BEEN REMOVED THEREFROM, 2.) IS NOT LOCATED WITHIN A DESIGNATED FLOODPLAIN (RE: F.E.M.A. PANEL 119 OF 825), 3.) DOES NOT CONTRIBUTE TO THE OFFSITE FLOWS OF ADJACENT PROPERTIES, 4.) DOES NOT ACCEPT OFFSITE FLOWS OF ADJACENT PROPERTIES.

#### **CALCULATIONS:**

PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, **VOLUME 2., DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE AND** BERNALILLO COUNTY, NEW MEXICO.

#### SITE AREA: 0.97 ACRE

PRECIPITATION ZONE: TWO (2), TABLE A-1 PEAK INTENSITY: IN./HR. AT Tc = TWELVE (12) MINUTES, 100-YR.=5.05 LAND TREATMENT METHOD FOR CALCULATION OF "Qp", TABLES A-8 & A-9 LAND TREATMENT FACTORS, TABLE A-4

PRECIPITATION: 360 = 2.35 in. 1440 = 2.75 in. 10 DAY = 3.95 in.

> **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:

	TRE	ATMENT A	0.00 ac.		0.00 ac.
	TRE	ATMENT B	0.00 ac.		0.00 ac.
and the transfer of the second section of the	TRE	ATMENT C	0.39 ac.	$(-\epsilon, +, +, -\epsilon, -\epsilon, -\epsilon, -\epsilon, -\epsilon)$	0.12 ac.
	TRE	ATMENT D	0.58 ac.		0.85 ac.

### **EXISTING EXCESS PRECIPITATION:**

Weighted E =  $(0.53) \times (0.00) + (0.78) \times (0.00) + (1.13) \times (0.39) + (2.12) \times (0.58) \times (0.97)$  $V100-360 = (1.72) \times (0.97) / 12 = 0.13903 \text{ ac-ft} = 6,056.3 \text{ cf}$ 

#### **EXISTING PEAK DISCHARGE:**

 $Q100 = (1.56) \times (0.00) + (2.28) \times (0.00) + (3.14) \times (0.39) + (4.70) \times (0.58) = 3.95$ 

#### PROPOSED EXCESS PRECIPITATION:

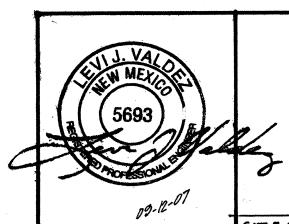
Weighted E =  $(0.53) \times (0.00) + (0.78) \times (0.00) + (1.13) \times (0.12) + (2.12) \times (0.85) / 0.97$ = 2.00 in.

 $V100-360 = (2.00) \times (0.97)/12 = 0.16167 \text{ ac-ft} = 7,042.3 \text{ cf}$ 

 $V100-1440 = (0.162) + (0.85) \times (2.75 - 2.35) / 12 = 0.1903 \text{ ac-ft} = 8,289.5 \text{ cf}$  $V100-10day = (0.162) + (0.85) \times (3.95 - 2.35)/12 = 0.2753 \text{ ac-ft} = 11,992.1 \text{ cf}$ 

#### PROPOSED PEAK DISCHARGE:

 $Q100 = (1.56) \times (0.00) + (2.28) \times (0.00) + (3.14) \times (0.12) + (4.70) \times (0.85) = 4.38$ INCREASE = 4.38 - 3.95 = 0.43 CFS



B STORM INLET SECTION

MOTE: CONNECT LEW

EXIST. H.C. RAMP

STORM DRAIN LINE TO

EXIST. C.O.A. STORM INLET 201.21 PER STO. DWG. \* 2237

> A PROPOSED GRADING AND DRAINAGE PLAN

**4501 NORTH FOURTH STREET** 

ALBUQUERQUE, NEW MEXICO AUGUST, 2007

CITY PROJECT NO ZONE MAP NO SHEET 7404.82 G-14-Z **ENGINEER'S SEAL** 

FOR INFORMATIONAL PURPOSES ONLY