# CITY OF ALBUQUERQUE



July 21, 2006

Mr. Hugh Floyd, PE **EASTERLING CONSULTANTS, LLC** 3613 NM 528 NW, Suite E-2 Albuquerque, NM 87114

Re: COLDWELL OFFICE BUILDING

10300 Cottonwood Park NW

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 11/15/2005 (A-14/D16)

Certification dated 07/19/2006

P.O. Box 1293

Dear Hugh,

Albuquerque

Based upon the information provided in your submittal received 07/21/2006, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

New Mexico 87103

If you have any questions, you can contact me at 924-3982.

www.cabq.gov

Sincerely, Owlene V. Portillo

Arlene V. Portillo

Plan Checker, Planning Dept. - Hydrology

**Development and Building Services** 

C: CO Clerk:

File

#### DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Coldwell Office Building DRB #Proj#1001831 App#05DRB01588EPC#:	ZONE MAP/DRG. FILE #: A-14/DIOD
DHB #Proj#1001831 App#05DRB01588EPC#:	WORK ORDER#:
LEGAL DESCRIPTION: Tract-G1A-1 Seven Bar Ranch, Tract-G1A-2	C SBR
CITY ADDRESS: 10300 Cottonwood Park No	<u></u>
ENGINEERING FIRM: Easterling Consultants LLC	CONTACT: Hugh Floyd
ADDRESS: 3613 NM 528 NW, Suite E-2	PHONE: (505) 821-6646
CITY, STATE: Albuquerque, NM	ZIP CODE: <u>87114</u>
OWNER: Momentum West LLC	CONTACT: Kerry West
ADDRESS: 3777 American Road, Suite 200	PHONE: (505) 890-2110
CITY, STATE: Albuquerque, NM	ZIP CODE: <u>87114</u>
ARCHITECT: Claudio Vigil Architects	CONTACT: Louisa Hollson
ADDRESS: 1801 Rio Grande	PHONE: (505) 842-1113
CITY, STATE: Albuquerque, NM	ZIP CODE:87104
SURVEYOR: Precision Survey	CONTACT: Larry Mondrano
ADDRESS 8414-D Jefferson St NW	PHONE: (505) 856-5700
CITY, STATE: Albuquerque, NM	ZIP CODE: 87117
CONTRACTOR: Gerald Martin Contractor	CONTACT: Fred Gorenz
ADDRESS: 8501 Jefferson NE	PHONE: (505) 823-6850
CITY, STATE: Albuquerque, NM	ZIP CODE: 87113
CHECK TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT DRAINAGE PLAN 1st SUBMITTAL, REQUIRES TCL or equal DRAINAGE PLAN RESUBMITTAL CONCEPTUAL GRADING & DRAINAGE PLAN GRADING PLAN EROSION CONTROL PLAN	SIA / FINANCIAL GUARANTEE RELEASE PRELIMINARY PLAT APPROVAL S. DEV. PLAN FOR SUB'D. APPROVAL S. DEV. PLAN FOR BLDG. PERMIT APPROVAL SECTOR PLAN APPROVAL FINAL PLAT APPROVAL
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TRAFFIC CIRCULATION LAYOUT (TCL)	X CERTIFICATE OF OCCUPANCY (PERM.)
ENGINEERS CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (TEMP.) GRADING PERMIT APPROVAL PAVING PERMIT APPROVAL
OTHER	PAVING PERMIT APPROVAL
	WORK ORDER APPROVAL
	OTHER (SPECIEV)
WAS A PRE-DESIGN CONFERENCE ATTENDED:  ✓ YES Phone Call NO COPY PROVIDED	JUL 2 1 2006  HYDROLOGY SECTION
DATE SUBMITTED: 07-19-06 BY: Hugh F	

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

- 1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five

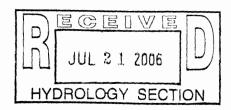
(5) acres

3. **Drainage Report**: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

## Easterling Consultants LLC

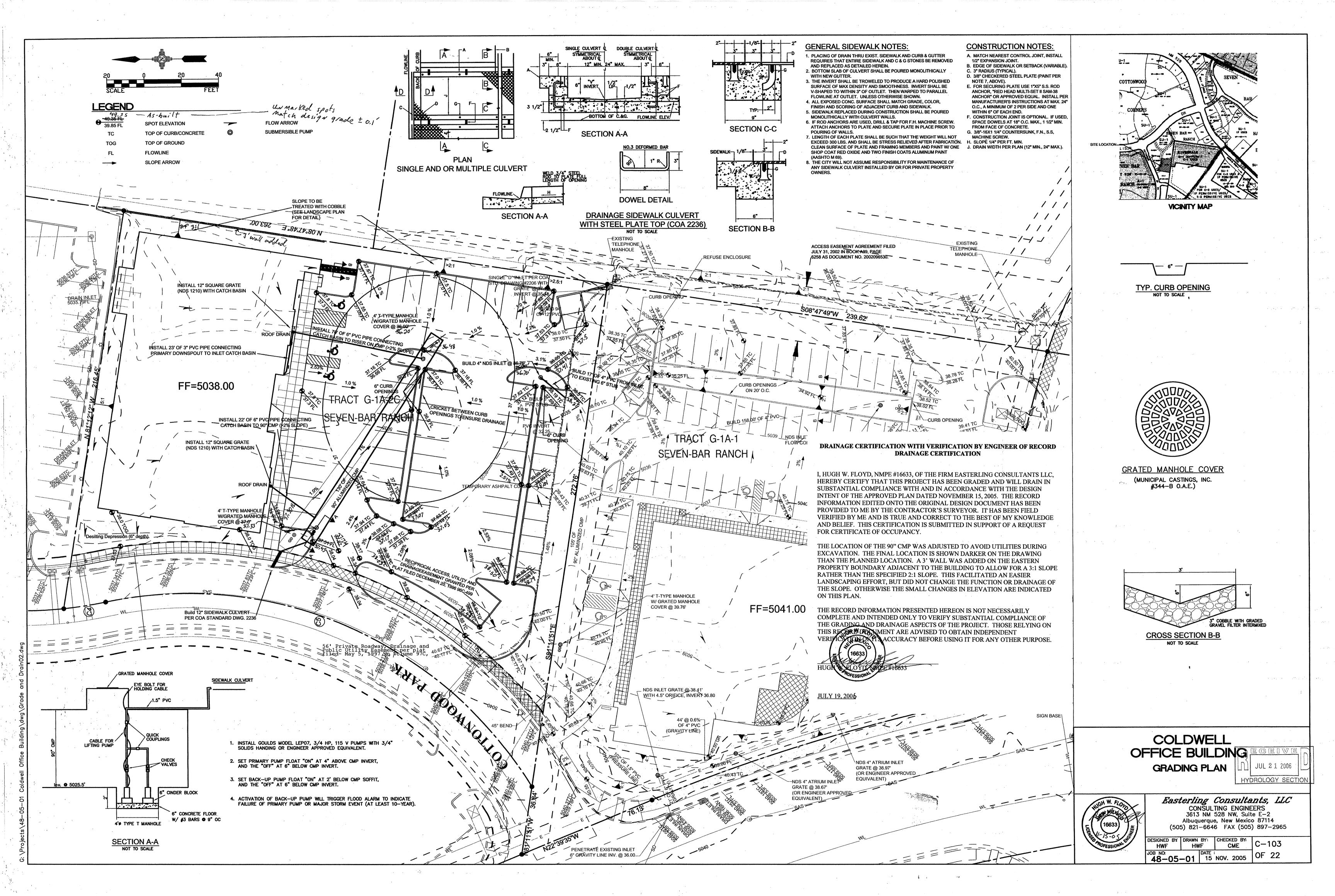
3613 NM 528 NW, Suite E-2 Albuquerque, NM 87114

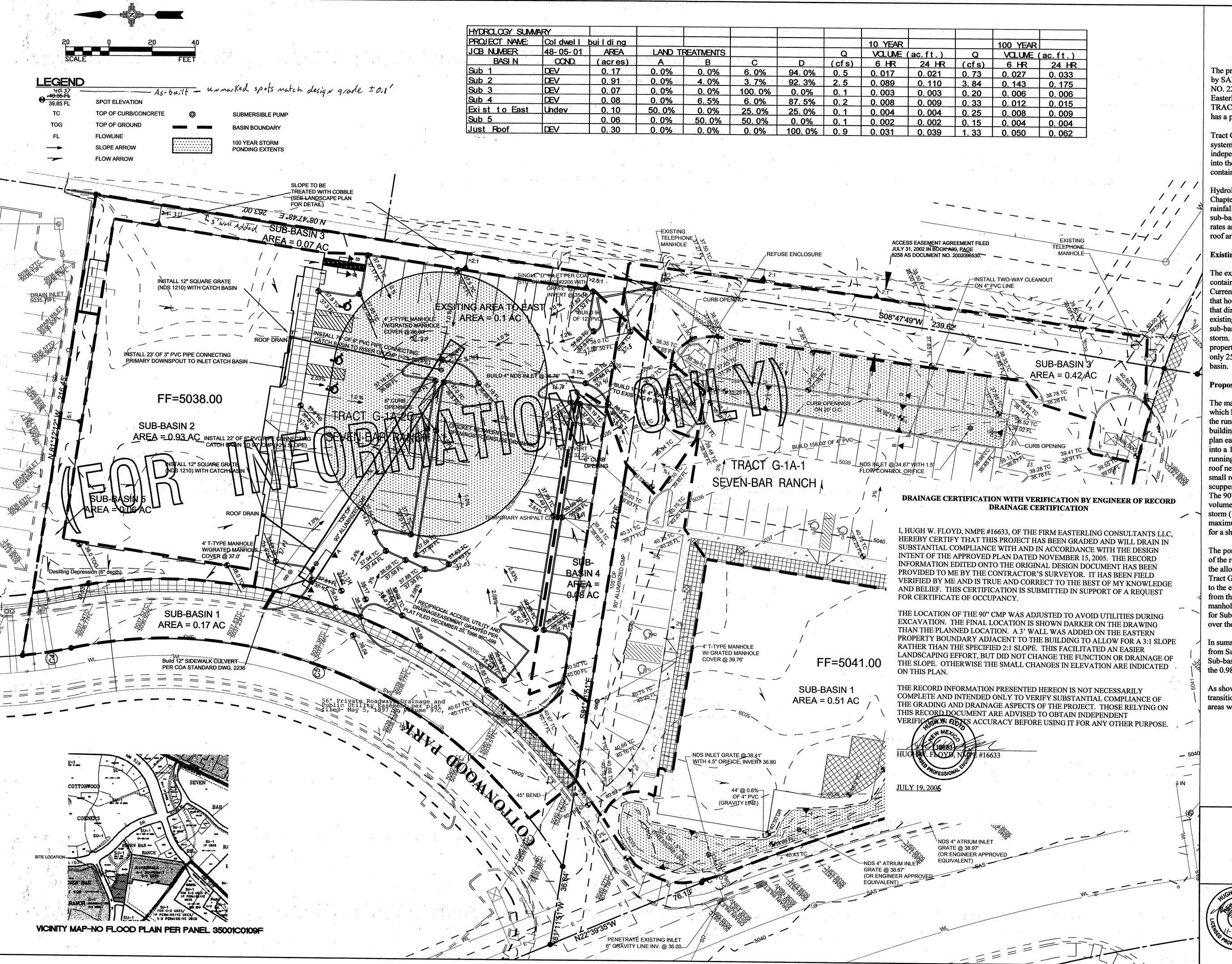
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		(505) 897-2965				
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To:	City of Albuque	rque			Drainage and Gradin	g Certification
	600 2 <sup>nd</sup> Street I					
	Albuquerque, N	New Mexico				
	87102	<del></del>				
Attn:	Kristal D. Metro					
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	☐ Shop Drawings				- ,	☐ Specifications
	☐ Copy of letter	☐ Change ord	er 🛛 G	rading ar	nd Drainage Sheets	
Copie	s Date	Pages/Sheets			Description	
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1	07/19/06	1	Drainage and Trans	sportatio	n Information Sheet	
THESE	ARE TRANSMITTED	AS CHECKED BEL	OW:			
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	☐ For your use	_	☐ Approved as noted			copies for distribution
	☐ As requested		Return copies			corrected prints
	☐ For review and					DUE,
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TRANSMITTAL

Job





## COLDWELL OFFICE BUILDING

The project area is designated as Tract G-1A-2C Seven Bar Ranch. It is covered by SAD223 and has a maximum permissible discharge rate as found in "SAD NO. 223 Cabezon Channel Capacity Analysis" (June 1993), prepared by Easterling & Associates, Inc., for COA PWD. The permissible flow rate from TRACT G-1A is 0.73 cfs per acre. Tract G-1A-2C is 1.2868 acres and therefore has a permissible discharge rate of 0.98 cfs.

Tract G-1A-2C was originally planned to share an underground pipe/pump system with the adjacent Tract G-1A-1, however Tract G-1A-1 has developed independently. Therefore, Tract G-1A-2C will discharge the allowed 0.98 cfs into the existing curb and gutter provided in Cottonwood Park, which is contained within a 50' private utility, drainage, and access easement.

Hydrology calculations were performed based on the Albuquerque DPM Chapter 22.2. Tract G-1A-2C is in Zone 1 (Figure A-1 of DPM). Therefore, a rainfall of 2.66" is used for the 100-yr 24-hr storm. The site is broken into five sub-basins for analysis. The areas and calculated runoff volumes and peak flow rates are shown in the adjacent table along with an existing sub-basin and the roof area which is included for sizing inlets.

## **Existing condition**

The existing site slopes primarily to the east and north, except that portion contained in the existing Cottonwood Park Rd. which slopes northward. Currently there is a small ponding area in the northeast corner of the property that holds the runoff from most of the site. There is 0.1 acres of the existing site that directly runoffs to the adjacent site to the east. This portion includes an existing portion of an old asphalt roadway. The table below shows this existing sub-basin with the discharge and volume associated with the 100-yr, 24-hr storm. For the proposed plan, only a 10' strip along the eastern edge of the property (Sub-basin 3) is permitted to discharge to the east. This strip yields only 252 cu. ft at 0.2 cfs in the design storm which is less than the existing sub-basin.

### **Proposed Conditions**

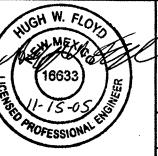
The majority of the site (Sub-basin 2) drains to a 130' long buried 90" CMP which houses a 40 GPM (0.09 cfs) duplex pumping system. This system pumps the runoff to a 12" sidewalk culvert which discharges to Cottonwood Park. All building runoff is to the front of the building. Two roof drains shown on the plan each receive approximately half of the roof area Each of these drains go into a 12" by 12" grate/catch basin which in turn directs flow to a 6" PVC pipe running to the 90" CMP. A smaller drain catches a very small portion of the roof near the main entrance and is directed to the eastern of the two grates. The small roof coming from the main building in the south east corner drains from a scupper to the cobble swale shown on the plan which drains to the parking lot. The 90" CMP holds 5733 cu. ft (0.13 ac-ft) which is more than the 10-year volume for Sub-basin 2 (4, 800 cu. ft.). The remainder of the 100-yr, 24-hr storm (1915 cu. ft.) is contained in the ponding area in the parking lot. The maximum depth of this ponding area is 0.5' and this area will only be flooded for a short duration during a storm larger than the 10-yr, 24-hr storm.

The portion of the site included in the roadway (Sub-basin 1) discharges as part of the roadway drainage system to the north. This sub-basin uses the majority of the allowable discharge. Sub-basin 4 is primarily made up of a basin from the Tract G-1A-1 site plan, therefore, an inlet in the adjacent median takes this area to the existing stub at the easement line. Sub-basin 2 is made up partly of area from the adjacent site and all discharge from Sub-basin 3 comes to the grated manhole cover at the eastern end of the buried 90" CMP, so this compensates for Sub-basin 4. Sub-basin 5, made up of only landscaped areas, sheet flows over the adjacent sidewalk into Cottonwood Park.

In summary, the total discharge of the site to Cottonwood Park is the discharge from Sub-basins 1 & 5 and the discharge of the pump system which catches Sub-basin 3. The total is 0.73 cfs + 0.15 cfs + 0.09 cfs = 0.97 cfs. This is below the 0.98 cfs allowable discharge.

As shown in the plan, the site has between 1 and 3% grades except at the short transition on the eastern side where slopes become as steep as 2:1. These steep areas will be protected by cobble treatment of the slope to prevent erosion.

# COLDWELL OFFICE BUILDING DRAINAGE PLAN (FOR INFORMATION ONLY)



Easterling Consultants, LLC

CONSULTING ENGINEERS

3613 NM 528 NW, Suite E-2

Albuquerque, New Mexico 87114

(505) 821-6646 FAX (505) 897-2965

DESIGNED BY HWF	НМ	/F	l c	ME	C-102
JOB NO: 48-05-	_01	DATE 15	NOV	2005	OF 22