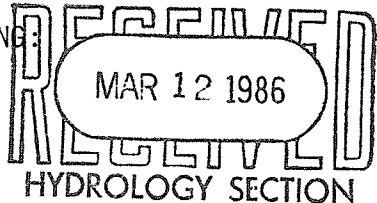


RAINAGE INFORMATION SHEET

PROJECT TITLE: Office/Storage for George Bosiljevac ZONE ATLAS/DRNG. FILE #: J-17/D-8
 LEGAL DESCRIPTION: Lot 11 Hill+Hendrix Subdivision of Block 2 New Year Addition
 CITY ADDRESS: 608 Adams NE
 ENGINEERING FIRM: Dmjm CONTACT: Charles Burm
 ADDRESS: 5700 Harper Dr. NE PHONE: 822-7955
 OWNER: George Bosiljevac CONTACT: _____
 ADDRESS: 7812 Harwood Ave NE PHONE: 294-2143
 ARCHITECT: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 SURVEYOR: Dmjm CONTACT: Charles Burm
 ADDRESS: 5700 Harper Dr. NE PHONE: 822-7955
 CONTRACTOR: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING: YES DRB NO. _____
NO EPC NO. _____
COPY OF CONFERENCE RECAP PROJ. NO. _____
SHEET PROVIDED



TYPE OF SUBMITTAL:
☐ DRAINAGE REPORT
☐ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN Resubm: Hol
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:
☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ SITE DEVELOPMENT PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY APPROVAL
☐ ROUGH GRADING PERMIT APPROVAL
☐ GRADING/PAVING PERMIT APPROVAL
☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: 3-6-86
 BY: Charles Burm



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

March 18, 1986

Jake Bordenave
DMJM
5700 Harper Drive, NE Suite 280
Albuquerque, New Mexico 87109

RE: DRAINAGE PLAN FOR OFFICE/STORAGE FOR GEORGE BOSILJEVAC
RECEIVED MARCH 12, 1986 (J-17/D8)

Dear Mr. Bordenave:

The referenced plan, dated March 5, 1986, is approved for Building Permit sign-off.

Please attach a copy of this approved drainage plan to the construction sets before Hydrology will sign-off.

If you have any questions regarding this project, call me at 766-7644.

Cordially,

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

BJM:CAM/bsj

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER

DMJM

PROJECT

PROJECT NO.

PAGE

4670-02-02

ALBUQUERQUE

BY:

DATE:

CB

3-4-86

2

SUBJECT

Grading Plan for George Basiljevac

$$Q = C I A$$

$$Q_{100} = 0.52 (4.86) \left(\frac{6750}{43560} \right)$$

$$= 0.39 \text{ cfs}$$

Developed Condition (100 year)

$$\text{LANDSCAPE AREA + LAWN} = 6750 - (1898 + 892 + 1054 + 745)$$

$$= 2161 \text{ sf}$$

$$\% \text{ Impervious} = \frac{(1898 + 892 + 1054 + 745)}{6750}$$

$$= 68\%$$

$$\text{Curve No} = 88$$

$$\text{Direct Runoff}_{100} = 1.2 \text{ inches}$$

22.2 c.f.

$$Vol = 6750 \times 1.2 \times \frac{1}{12}$$

$$= 675 \text{ ft}^3$$

$$\text{Composite } C' = \frac{1898(.90) + 892(.90) + 1054(.90) + 745(.95)}{6750}$$

$$+ 2161(.25)$$

$$= 0.70$$

$$Q = C.I.A.$$

$$t_c = 10 \text{ min}$$

$$I = 4.86$$

$$Q = 0.70(4.86) \left(\frac{6750}{43560} \right) \\ = 0.53 \text{ cfs.}$$

Approximate existing street slope

$$S = \frac{12.53 - 12.43}{50} \\ = 0.002 \text{ ft/ft}$$

from 22.3 D-1

$$\frac{1}{2} \text{ street capacity} = 27 \text{ cfs}$$

$$\text{full street capacity} = 54 \text{ cfs.}$$

outfall is a catch basin at the corner of Alamos + Lomas ≈ 100 to $125'$ to the south of the site.

The site is not in a flood hazard area
See FEMA map 350002-29C

the increase of 0.14 cfs for the 100 year event does not have a significant effect on downstream capacity

DMJM ALBUQUERQUE	PROJECT	PROJECT NO. 4670-02-02	PAGE 4
		BY: C.B.	
SUBJECT Grading Plan for George Basiljelic			

UNDEVELOPED CONDITION (10 year)

$$\text{Curve No} = 76$$

$$C = 0.52$$

$$\text{Direct Runoff} = 0.19''$$

22.2 C-4

$$\begin{aligned} Vol &= 0.19'' \times 6750 \times \frac{1}{12} \\ &= 107 \text{ ft}^3 \end{aligned}$$

$$\begin{aligned} I &= 6.84 (1.5) (10)^{-0.51} \\ &= 3.17 \end{aligned}$$

$$\begin{aligned} Q_{10} &= (0.52) (3.17) (6750 / 43560) \\ &= 0.26 \text{ cfs} \end{aligned}$$

DEVELOPED CONDITION (10 year)

$$\text{Curve No} = 88$$

$$C = 0.70$$

$$\text{Direct Runoff} = 0.58$$

22.2 C-4

$$\begin{aligned} Vol &= (0.58) (6750) \left(\frac{1}{12} \right) \\ &= 326 \text{ ft}^3 \end{aligned}$$

$$\begin{aligned} Q_{10} &= (0.70) (3.17) (6750 / 43560) \\ &= 0.34 \text{ cfs} \end{aligned}$$

DMJM

ALBUQUERQUE

PROJECT

PROJECT NO.

4670-02-02

PAGE

1

BY:

C.B.

DATE:

3-4-86

SUBJECT

Grading Plan George Bosil/Jeval

$$\text{Site Area} = 135' \times 50' = 6750 \text{ SF}$$

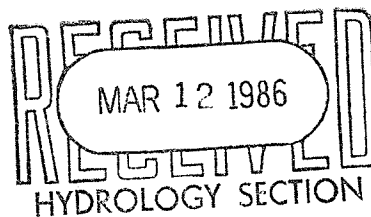
$$\text{Existing roof Area} = 1898 \text{ SF}$$

$$\text{Existing Drive \& Paths} = 892 \text{ SF}$$

$$\text{New Roof Area} = 1054 \text{ SF}$$

$$\text{New Conc Walks \& Drives} = 745 \text{ SF}$$

$$\text{rainfall}_{100} = 2.3" \quad \text{rainfall}_{10} = 1.5"$$



UNDEVELOPED CONDITION (100 years)

$$\begin{aligned} \text{Landscaped area \& Lawn} &= 6750 - (1898 + 892) \\ &= 3960 \text{ SF} \end{aligned}$$

$$\begin{aligned} \% \text{ Impervious} &= \frac{1898 + 892}{6750} \\ &= 41\% \end{aligned}$$

Hydrologic soil Group B

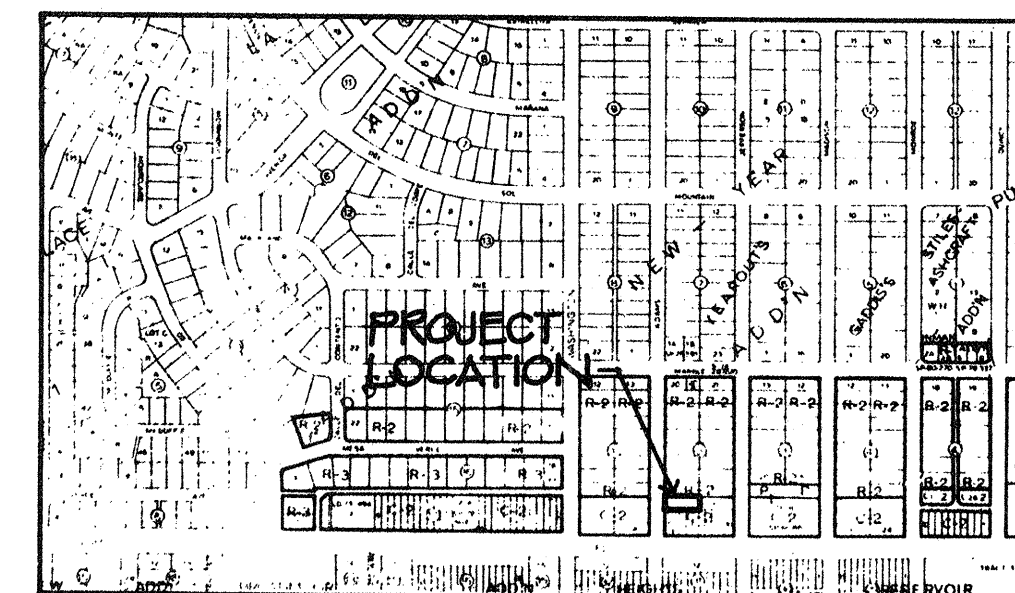
$$\begin{aligned} \text{Curve No.} &= 70 \\ \text{In } 22.2 \text{ CZ} \end{aligned}$$

$$\text{Direct runoff}_{100} = 0.58 \text{ inches}$$

$$\begin{aligned} \text{Vol}_{100} &= 6750 \times 0.58 \times \frac{1}{12} (1^{-3}) \\ &= 324 \text{ ft}^3 \end{aligned}$$

$$\begin{aligned} \text{Composite C} &= \frac{1898(.90) + 892(.95) + 3960(.25)}{6750} \\ &= 0.52 \end{aligned}$$

$$\begin{aligned} t_p &= 10 \text{ min} \quad t_c = 6.84(2.3)(10)^{.51} \\ &= 25 \end{aligned}$$



VICINITY MAP

J-17

LEGEND

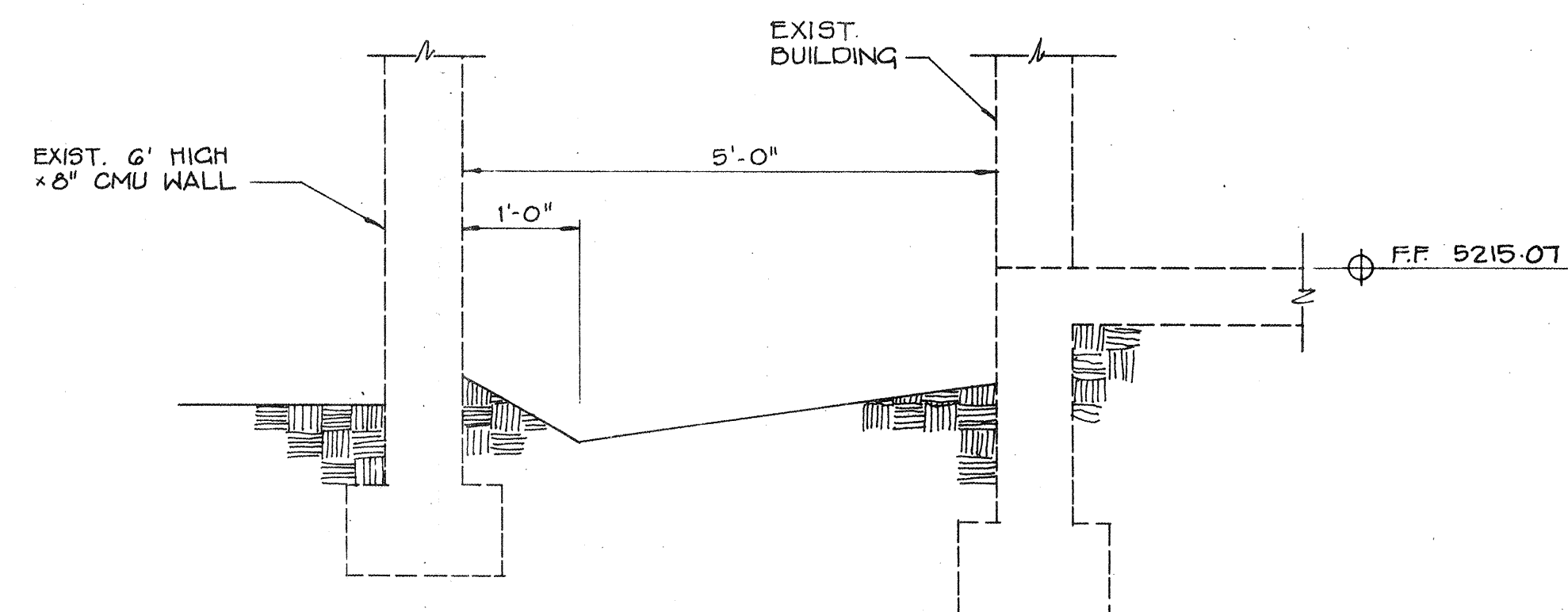
- ◆ PROPOSED SPOT ELEVATIONS
- ⊕ EXISTING SPOT ELEVATIONS
- TA TOP OF ASPHALT ELEVATION
- CONCRETE AREA

LEGAL DESCRIPTION

LOT 11, HILL & HENDRIN SUBDIVISION OF
BLOCK NO. 2 NEW YEAR ADDITION

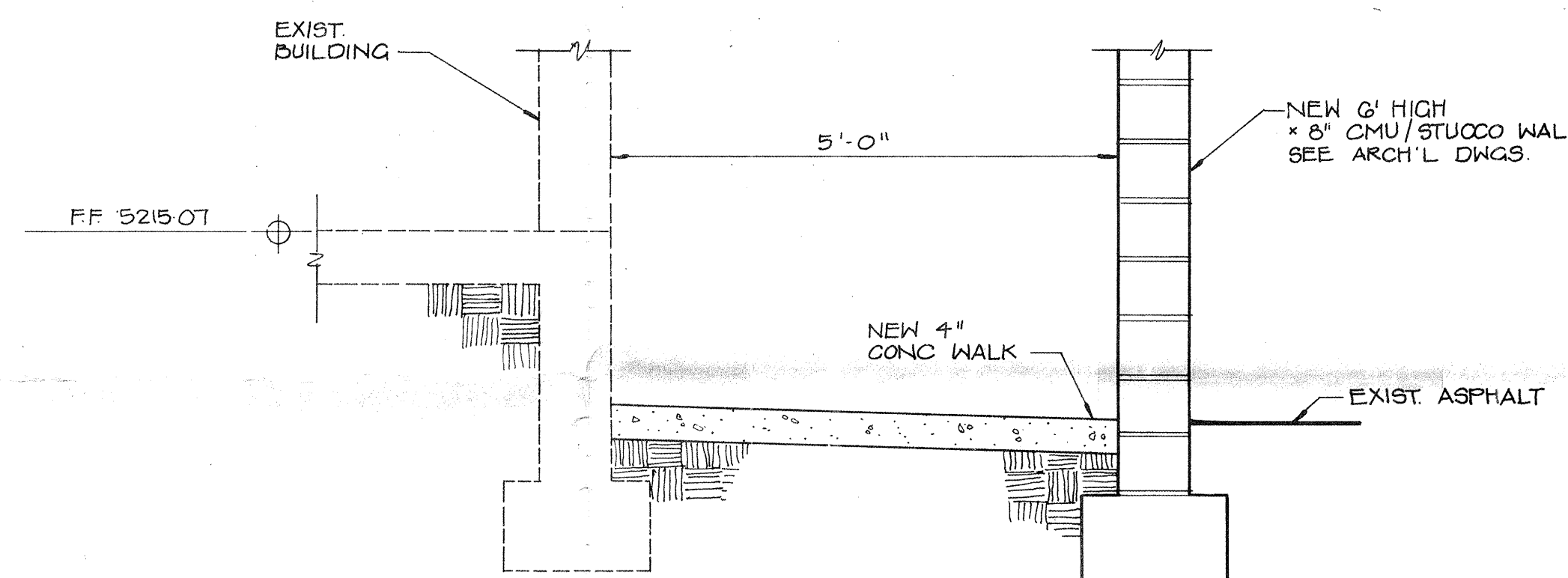
PROJECT BENCHMARK

AN ACS BENCHMARK NO. 2-JITA; LOCATED
IN THE SW QUADRANT OF WASHINGTON
ST. & LOMAS BLVD. N.E.; A "D" CUT IN TOP
OF CURB 6 FEET SOUTH OF THE SSW CURB
RETURN - #5040.26



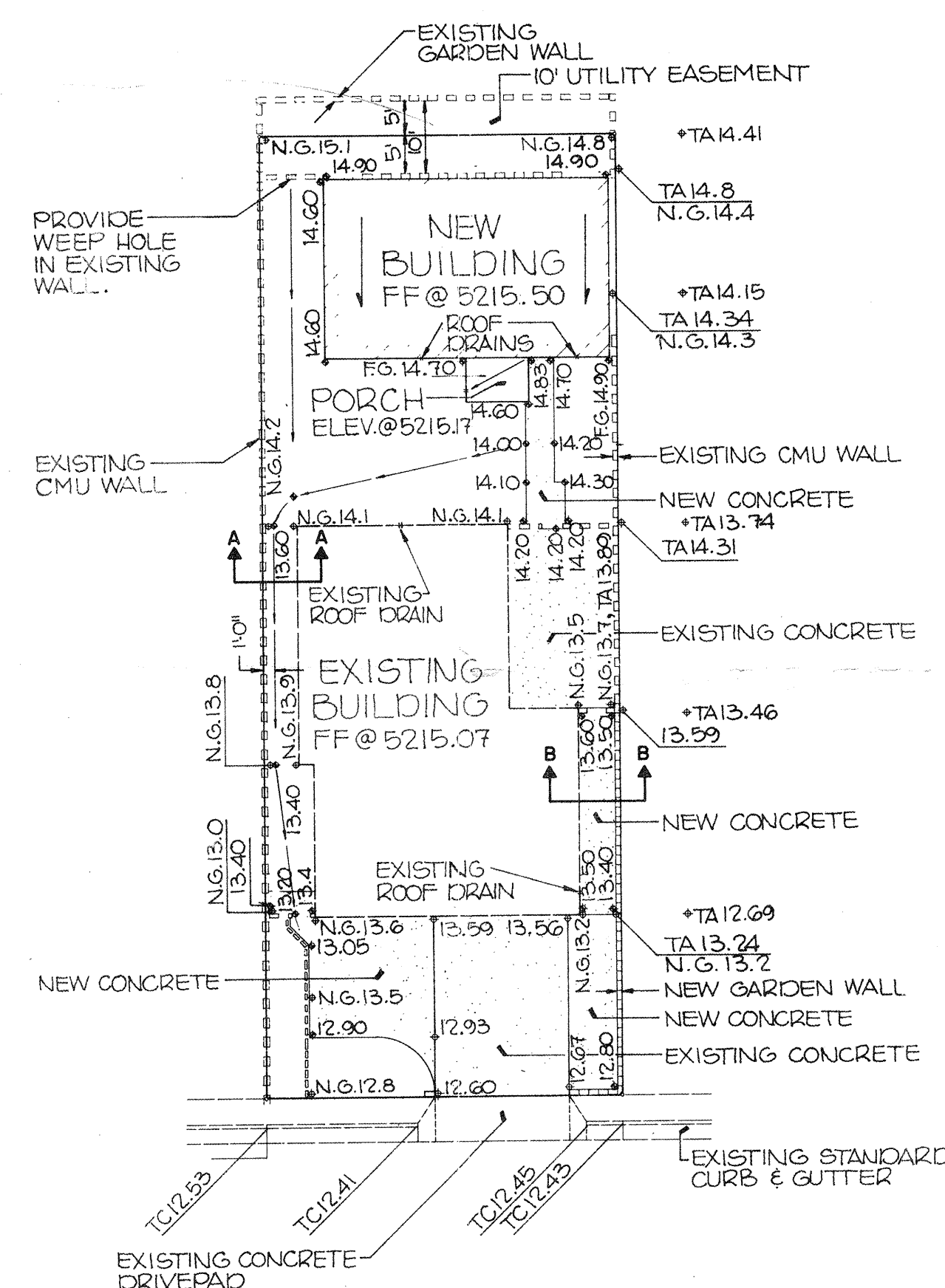
SECTION A-A

NOT TO SCALE

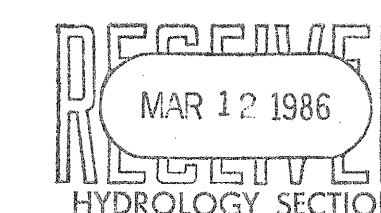


SECTION B-B

NOT TO SCALE



ADAMS STREET NE



REVISED SCALE: 3'-5'-86

OFFICE/STORAGE FOR
GEORGE BOSILJEVAC
608 ADAMS N.E.

GRADING PLAN



DMJM
5700 Harper Drive NE, Suite 280
Albuquerque, New Mexico 87109
(505) 822-7955