FF = 82.01

ENLARGED GRADING PLAN AT EAST STAIRS

SCALE: 1"=5"

TS79.50_

FF=79.50

FF=79.50

ENLARGED GRADING PLAN AT ELEVATOR

TS79.20 **TS79.27**

CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.

5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES. CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.

THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.

LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE,

3. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.

EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.). 10. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT

11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING

PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.

13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.

14. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIRED FOR COMPLIANCE WITH NPDES REQUIREMENTS.

LEGAL DESCRIPTION Lot 7 & Por. of Lot 8, Block 14

Huning's Highland Addition

DRAINAGE CALCULATIONS

EXISTING CONDITIONS: ASSUME 90% D. 5% C. 5% B 0.3 AC * 4.5 CFS/AC = 1.35 CFS

PROPOSED CONDITIONS: BASIN "A" (100% D)

BASIN "B" (50%D, 25% C, 25% B)

0.141 AC * 3.71 CFS/AC = 0.52 CFS

TOTAL PROPOSED = 1.29cfs



VICINITY MAP ZONE ATLAS PAGE K-14-Z

DRAINAGE MANAGEMENT PLAN

The purpose of this submittal is to present a final grading and drainage plan for the "Arno Lofts" project. This submittal is made in order to support building permit

The project site is located on the southeast corner of Central and Arno. Prior to demolitions work, the majority of the site contained the Zia Motor Lodge and associated facilities including parking. The site currently drains to the west and to the north into Arno and Central. The total peak discharge from the site in the 100 year storm is approximately 1.35cfs. Site slopes are 2% to 3%. The site is located within zone atlas map # K-14, and hydrologic zone 2.

III. PROPOSED HYDROLOGIC CONDITIONS

The proposed project is to consist of 18 Loft Apartments and a small courtyard area. The site has been divided into two basins for proposed conditions. Basin A consists solely of the main portion of the building (everything from the south edge of the building to the north property line). Basin A is 100% impervious area and generates a peak discharge of 0.77cfs in the 100 year storm. This flow will be discharged to Central Ave via roof drain lines to be daylighted through the face of the

Proposed Basin B consists of the balconies, stair towers, sidewalks and courtyard area behind the building (everything from the south edge of the building to the south property line). Basin B will discharge 0.52cfs to Arno via surface flow during the 100 year storm event. Basin B is 50% impervious, and 25% each of land treatments B & C.

The total discharge to adjacent public streets under proposed conditions is slightly less than existing peak flows.

There are no upstream offsite flows which will impact this site. In addition, the site will not have any detrimental impact on downstream drainage infrastructure since proposed conditions discharge is slightly less than existing.

The improvements proposed with this final grading and arainage plan are capable of safely passing the 100 year storm and meet city requirements. With this submittal, we are seeking city hydrology approval for building permit.

GRADING NOTES

EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.

2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.

ILL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC

4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL

5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS

6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.

7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE $\pm /-~0.05'$ From Building Plan

9. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

(A) KEYED NOTES

A. PROVIDE TURNED BLOCKS IN BASE OF WALL

TRENCH DRAIN, TG-80.94, SYSTEM SHALL BE CAPABLE OF PASSING 0.39CFS FROM THE EAST END TO THE POINT WHERE THE PIPE DAYLIGHTS (SEE KEYED NOTE "C"). CONTRACTOR SHALL SUBMIT SHOP DRAWINGS & CUT SHEETS FOR REVIEW & APPROVAL PRIOR TO ORDERING. SEE PLAN FOR TRENCH INVERT ELEVS. NOT CONSTRUCTED

C. -DAYLICHT 4" STORM DRAIN LINE NOT CONSTRUCTED

D. CONTRACTOR SHALL COORDINATE AND PAY FOR CITY INSTALLATION OF NEW 1 1/2" DOMESTIC WATER SERVICE

E. EXTEND 1 1/2" WATER SERVICE TO WITHIN 5' OF BUILDING, SEE PLUMBING PLANS FOR CONTINUATION

F. CONTRACTOR SHALL COORDINATE AND PAY FOR CITY INSTALLATION OF NEW 4" FIRE SERVICE

G. EXTEND 4" FIRE SERVICE TO WITHIN 5' OF BUILDING, SEE PLUMBING PLANS FOR CONTINUATION

UTILITY NOTES

. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL WORK RELATED TO MECHANICAL UTILITIES AS SHOWN ON THIS PLAN INCLUDING: TRENCHING, BACKFILL, SUPPORTS, CLEANOUT PADS, SERVICE STOPS AND BOXES, SERVICE LINES, TESTING, CLEANING, AND STERILIZING. ANY WORK NOT ACCEPTED BY THE ARCHITECT OR ENGINEER DUE TO IMPROPER WORKMANSHIP OR LACK OF PROPER COORDINATION SHALL BE REMOVED. AND CORRECTLY INSTALLED AT THE CONTRACTOR'S EXPENSE, AS DIRECTED.

2. MINIMUM DEPTHS OF COVER SHALL BE: 36" FOR WATERLINES AND 48" FOR SEWER, EXCEPT AT BUILDING

. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED OF HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE IAPMO UNIFORM PLUMBING CODE, LATEST

4. UTILITY LINES SHALL BE INSTALLED PRIOR TO PAVEMENT, CURB AND GUTTER, AND/OR SIDEWALK, AS APPLICABLE.

5. ROUGH GRADING OF SITE (± 0.5) shall be completed prior to installation of utility lines.

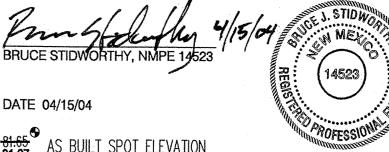
6. CONTRACTOR WILL BE RESPONSIBLE FOR CONNECTIONS TO BUILDING DRAIN LINES AND ALL NECESSARY FITTINGS.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATER METER, FIRE LINE, UTILITY EXPANSION CHARGES, AND SEWER HOOKUP FEES FOR INSTALLATIONS. OWNER SHALL BE RESPONSIBLE FOR PRORATA AND OTHER SPECIAL ASSESSMENTS.

10. CONTRACTOR SHALL VERIFY INVERTS AND LOCATIONS OF EXISTING UTILITIES AND OTHER POSSIBLE OBSTRUCTIONS PRIOR TO BEGINNING WORK. ALL CONFLICTS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER AND RESOLVED

I, BRUCE STIDWORTHY, NMPE 14523, OF THE FIRM BOHANNAN HUSTON INC., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 01/28/03. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ALAN BENHAM, NMPS 15700, OF THE FIRM BOHANNAN HUSTON. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 04/08/04 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR PERMANENT CERTIFICATE OF OCCUPANCY.

COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER



Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335 ENGINEERING & SPATIAL DATA & ADVANCED TECHNOLOGIES REVISIONS APR 1 5 2004 HYDROLOGY SECTION

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Suite 100

ARCHITECT

PROJECT

DESIGN

DEVELOPMENT

DRAWN BY RNB REVIEWED BY BJS DATE 05/06/03 PROJECT NO.

DRAWING NAME

ARNO LOFT

GRADING DRAINAGE, 8 UTILITY PLAN

PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE,

BASIS OF ELEVATION for this plan is ACS Control Station 6-K14(R)

6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN

. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT

9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT

THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED

12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

REQUIREMENTS, INCLUDING SWPPP PREPARATION, IMPLEMENTATION AND MAINTENANCE IF

which is located in the sidewalk in the northeast quadrant of the intersection of Central Avenue and Broadway Boulevard. The mean sea level elevation of said control station = 4968.765.

erque Ibuqu 7. ALL VALVES SHALL BE ANCHORED PER COA STANDARD DWG. 2333. 8. FIRE LINES SHALL USE PIPE MATERIALS UNDERWRITERS LABORATORIES LISTED AND APPROVED FOR FIRE SERVICE,

DRAINAGE CERTIFICATION

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY

81.65 AS BUILT SPOT ELEVATION