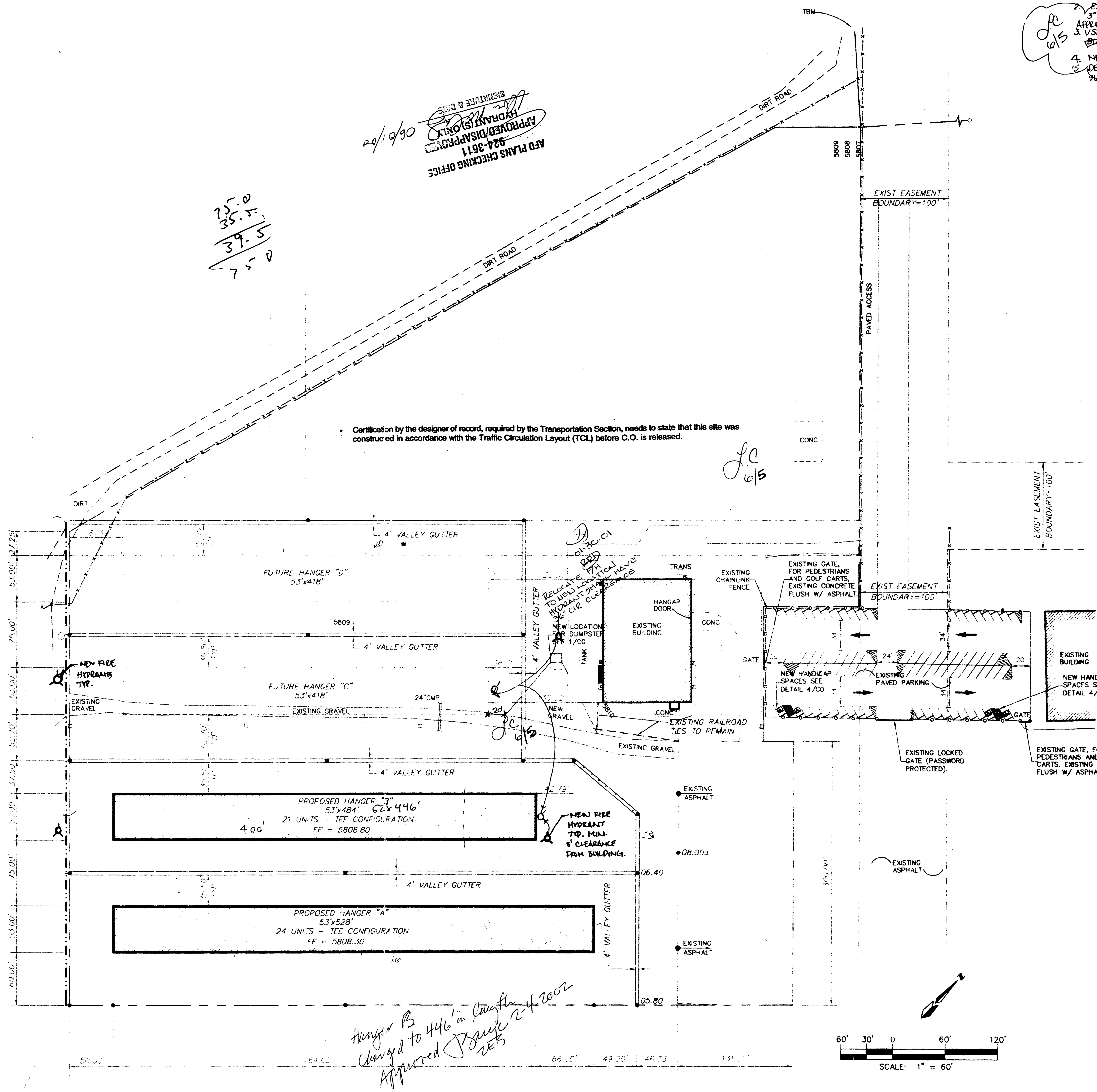
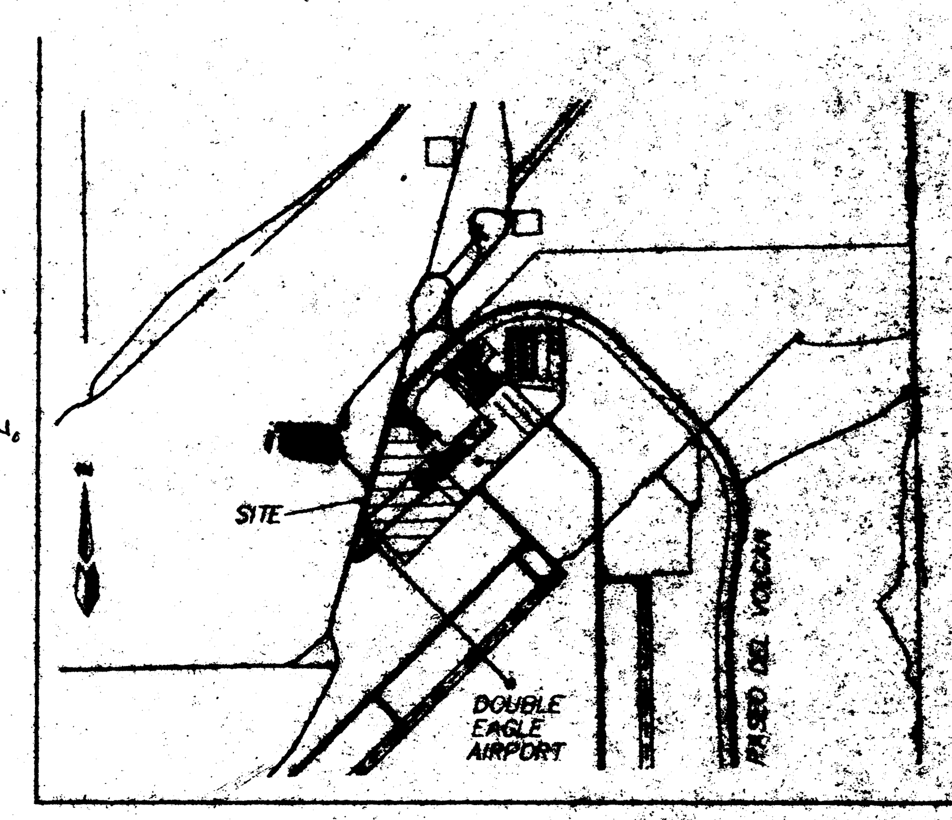
GENERAL NOTES

1. RE-STRIPE EXISTING PAVED PARKING AS PER DETAIL 1/C0.
2. EXISTING GRAVEL ROAD WILL STAY, EXISTING GRAVEL TO HAVE A 3" BASE. Approved
3. ~~SITE/DEVELOPMENT PLAN TO BE DONE FOR PERMIT OF FUTURE BUILDINGS 'C' & 'D'.~~
4. NEW GRAVEL AT REFUSE AREA TO HAVE 3" BASE.
5. DEVELOPMENT OF HANGAR C & D WILL INCLUDE ASPHALT SURFACE FOR VEHICLE USE. MUST BE APPROVED BY TRANSPORTATION.

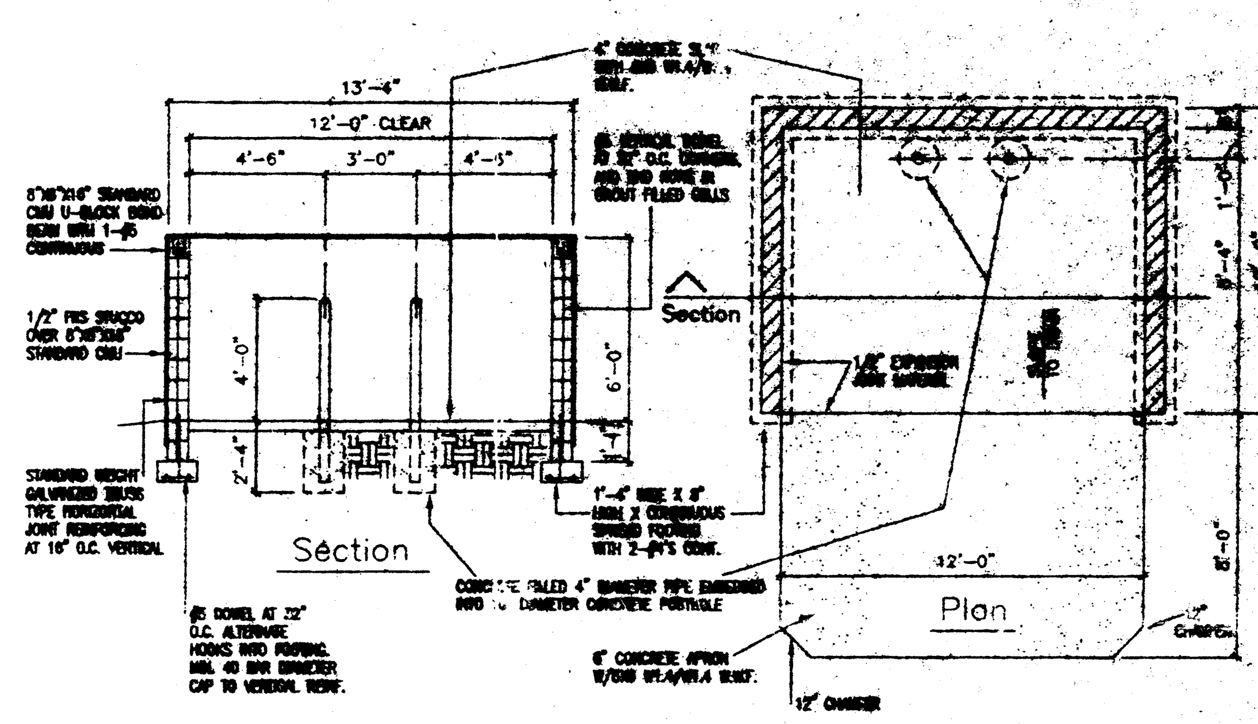
LC 6/5



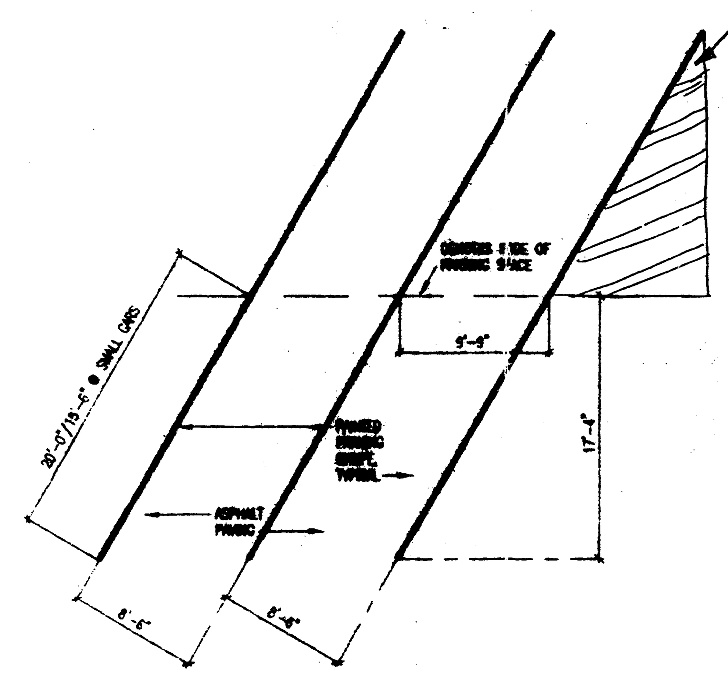
ENLARGED SITE PLAN
1"=60'



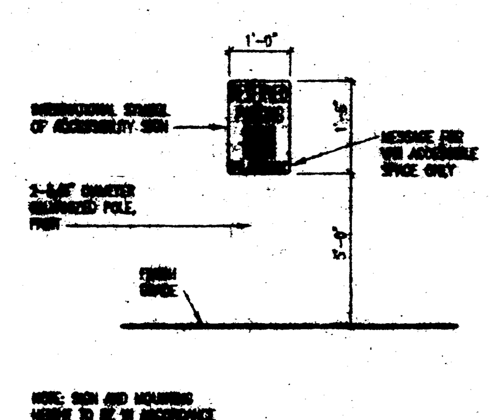
VICINITY MAP



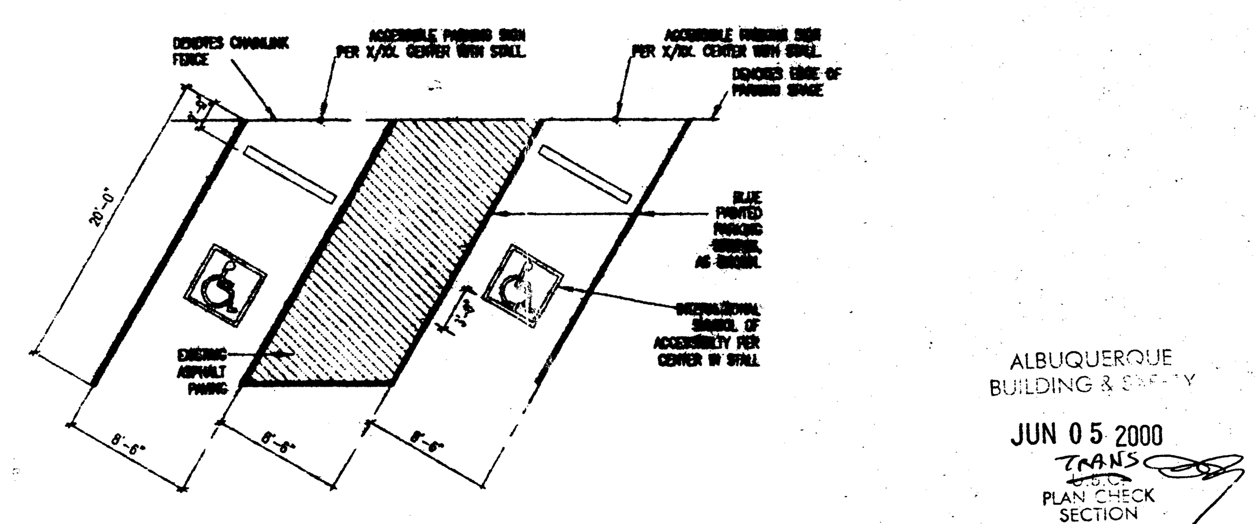
1 TYPICAL SLAB • DUMPSTER
C0 1/4"=1'-0"



2 TYPICAL SINGLE LOADED PARKING SPACE
C0 1/8"=1'-0"



3 ACCESSIBLE PARKING SIGN
C0 1/2"=1'-0"



4 TYPICAL VAN ACCESSIBLE PARKING SPACE
C0 1/8"=1'-0"

ALBUQUERQUE BUILDING & SAFETY
JUN 05 2000
TRANS
PLAN CHECK SECTION

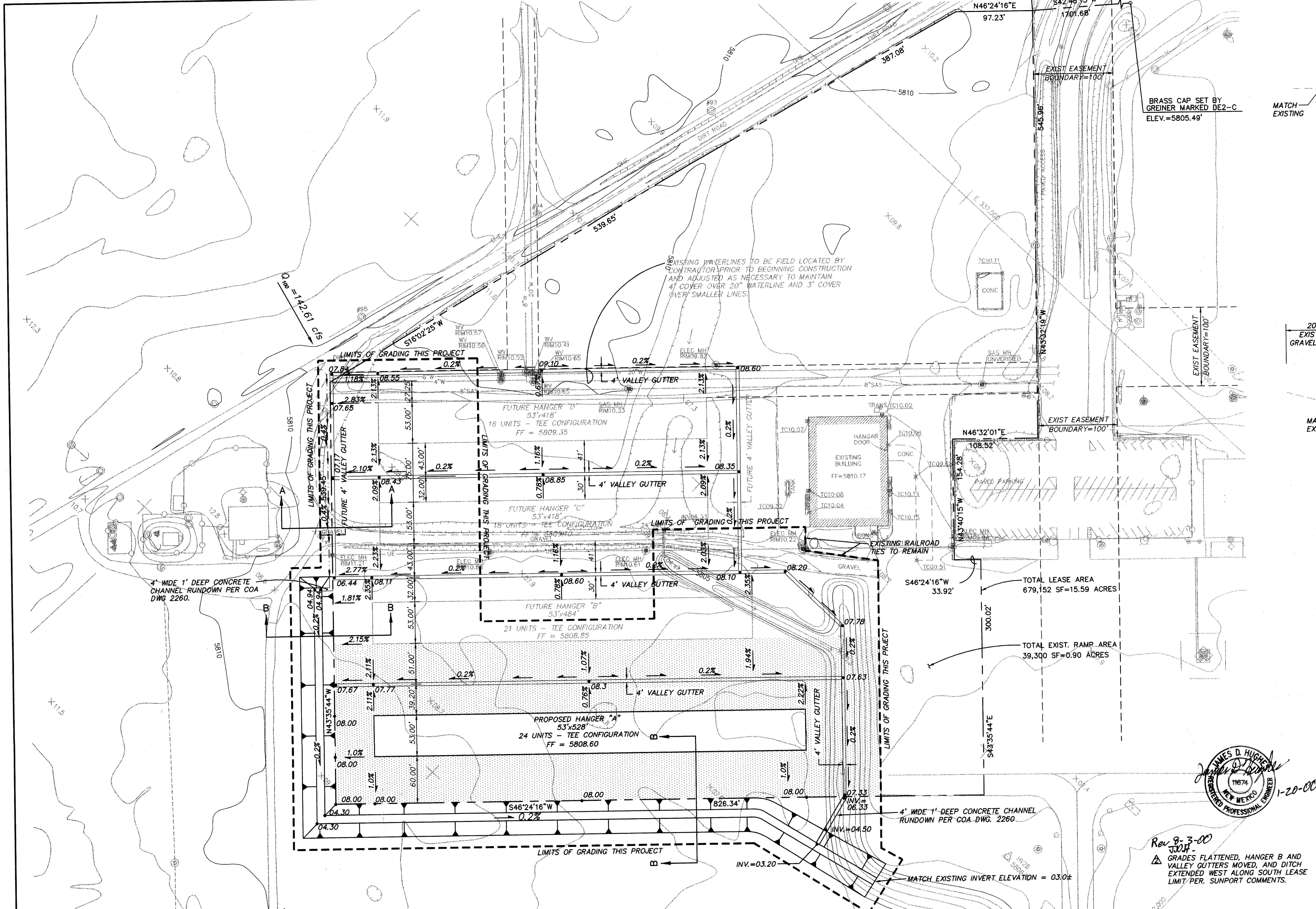
DOUBLE EAGLE AIRPORT HANGARS
ALBUQUERQUE, NEW MEXICO

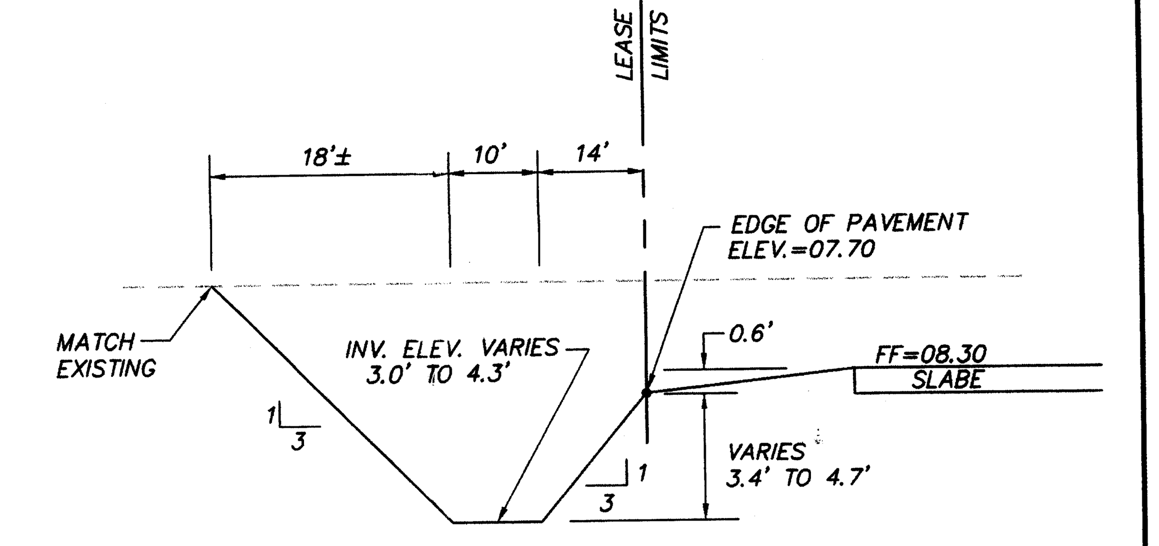
REVISION DATE

rick bennett architect

DATE
5-31-2000

SHEET NUMBER
C0



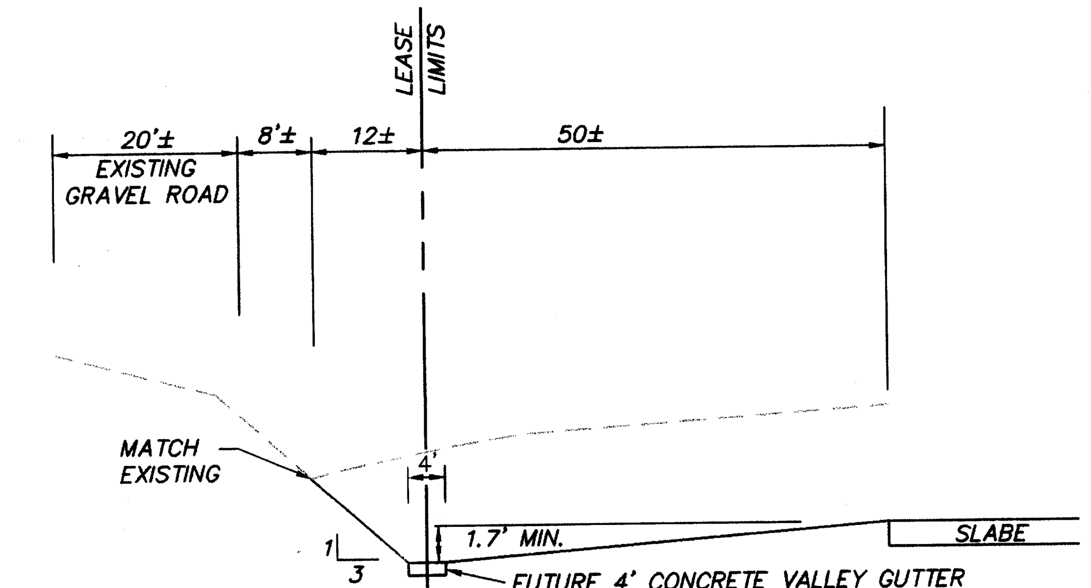


Q_{100} = 142.60 cfs
V_{100} = 3.18 fps
d_{100} = 2.54'
n = 0.03
S_0 = 0.2%

REQUIRED FREE BOARD = $0.7(2.0+0.025Vd^{1/3})$=1.48'

SECTION B-B

NOT TO SCALE



Q_{100} = 142.61 cfs
V_{100} = 4.05 fps
d_{100} = 1.26'
n = 0.02
S_0 = 0.5%

REQUIRED FREE BOARD = $0.7(2.0+0.025Vd^{1/3})$=1.48'

SECTION A-A

NOT TO SCALE

L E G E N D

	PROPERTY LINE
	PROPOSED 4' VALLEY GUTTER PER COA DWG. 2421±
5808	EXISTING CONTOUR
8"SAS	EXISTING SANITARY SEWER LINE
4"W	EXISTING WATERLINE
OHE	EXISTING OVERHEAD POWER LINE
UE	EXISTING UNDERGROUND POWER LINE
	EXISTING BARBED WIRE FENCE
	EXISTING CHAINLINK FENCE
	EXISTING WATER VALVE
08.10	PROPOSED SPOT ELEVATION
	PROPOSED FLOW DIRECTION
	PAVING THIS PROJECT
	LIMITS OF GRADING THIS PROJECT

JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
James D. Hughes 1-20-00

Rev 8-3-00 JDH

2 GRADES FLATTENED, HANGER B AND VALLEY GUTTERS MOVED, AND DITCH EXTENDED WEST ALONG SOUTH LEASE LIMIT PER. SUNPORT COMMENTS.

ENGINEERS CERTIFICATION

I JAMES D HUGHES PE # 11674 DO HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THE PRIVATE GRADING AND DRAINAGE HAS BEEN COMPLETED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN. TWO NOTEWORTHY DEVIATIONS FROM THE PLAN ARE A CHANGE IN THE LIMITS OF PAVING ON THE WEST SIDE OF THE HANGER AND A LARGE PUDDLE IN THE SOUTHWEST CORNER OF THE PAVING. THOUGH INCONVENIENT, THESE TWO DEVIATIONS DO NOT SIGNIFICANTLY ALTER ANY OF THE PLANED DRAINAGE PATTERNS.

James D. Hughes 8-16-01
DATE

JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

60' 30' 0 60' 120'
SCALE: 1" = 60'

ARV, INC. d/b/a ALBUQUERQUE AIR CENTER EXPANSION PROJECT

PHASE 1A GRADING AND DRAINAGE PLAN

dmg
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: WLV	Checked: DMG	Sheet 2 of 4
Scale: 1" = 60'	Date: 12/99	Job: 99155	

9155HH\9155GD1A\08-03-00\MJR SPS

\J085\99jobs\99155\9155GD1A.dwg Thu Aug 03 12:52:24 2000 by sps

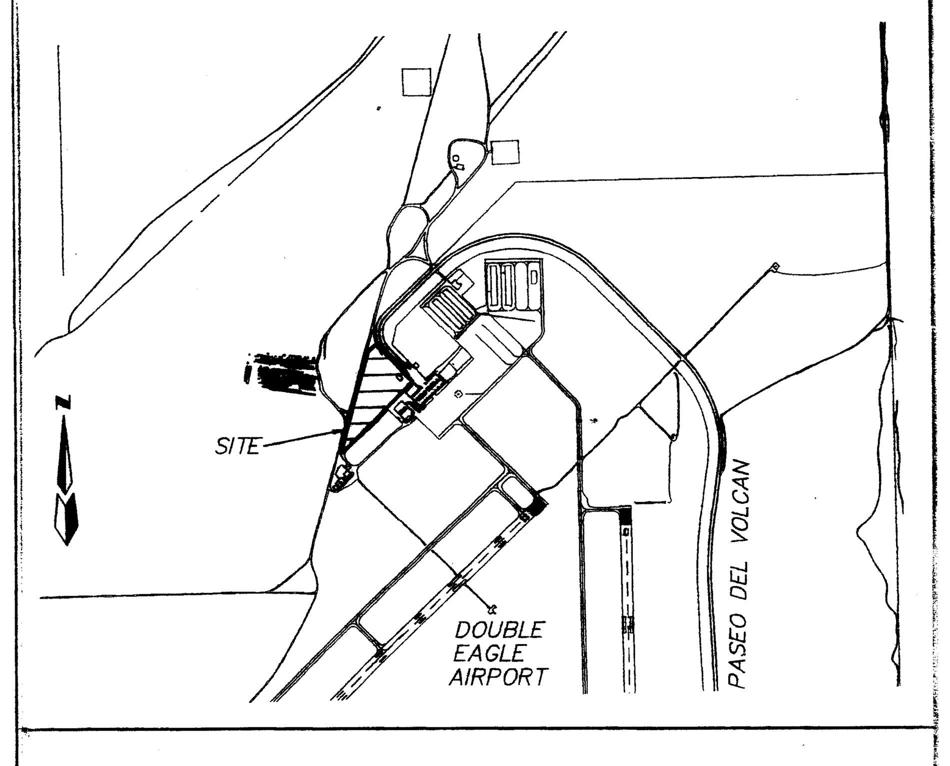
HYDROLOGY SUMMARY

Basin ID	Area (ac)	Hydrologic Group				Q_{100}	V_{100} (ac.ft)
		A	B	C	D	cfs	(6 Hr. Storm)
Pre-Development							
201A	3.22 ac.	67	0	0	33	7.47	0.256 9
102B	2.41 ac.	100	0	0	0	3.19	0.090
Total						11.66	
Post-Development							
201A	3.22 ac.	36	0	15	49	*9.73	*0.340
102B	2.41 ac.	85	0	0	15	4.24	0.136
Total						*4.24	

* Drainage Basin 201A will not discharge any flow and will drain to a Retention Pond sized for 100-yr, 10-day volume.

$P_{60} = 1.88"$ $P_{360} - 2.22"$ $P_{1440} = 2.71"$ $P_{10\text{-day}} = 10.0 - (24.9/(2.71^{1.4})) = 3.83"$

$V_{10\text{-day}} = 0.34$ ac.ft + 3.22 ac X(3.83" – 2.22") X 49% / 12 in/ft. = 0.552 ac.ft



VICINITY MAP ZONE MAP: E-6-Z

TBM (TEMPORARY BENCHMARK)

TOP OF RAILROAD SPIKE DRIVEN INTO POWER POLE #XIT 91 LOCATED AS SHOWN ON PLANS. ELEVATION = 5810.76'

ACS BENCHMARK

ELEVATIONS ARE BASED ON A BRASS CAP SET BY GREINER ENGINEERING MARKED DE2-C. ELEVATION = 5805.31' (MSL)

LEGAL DESCRIPTION

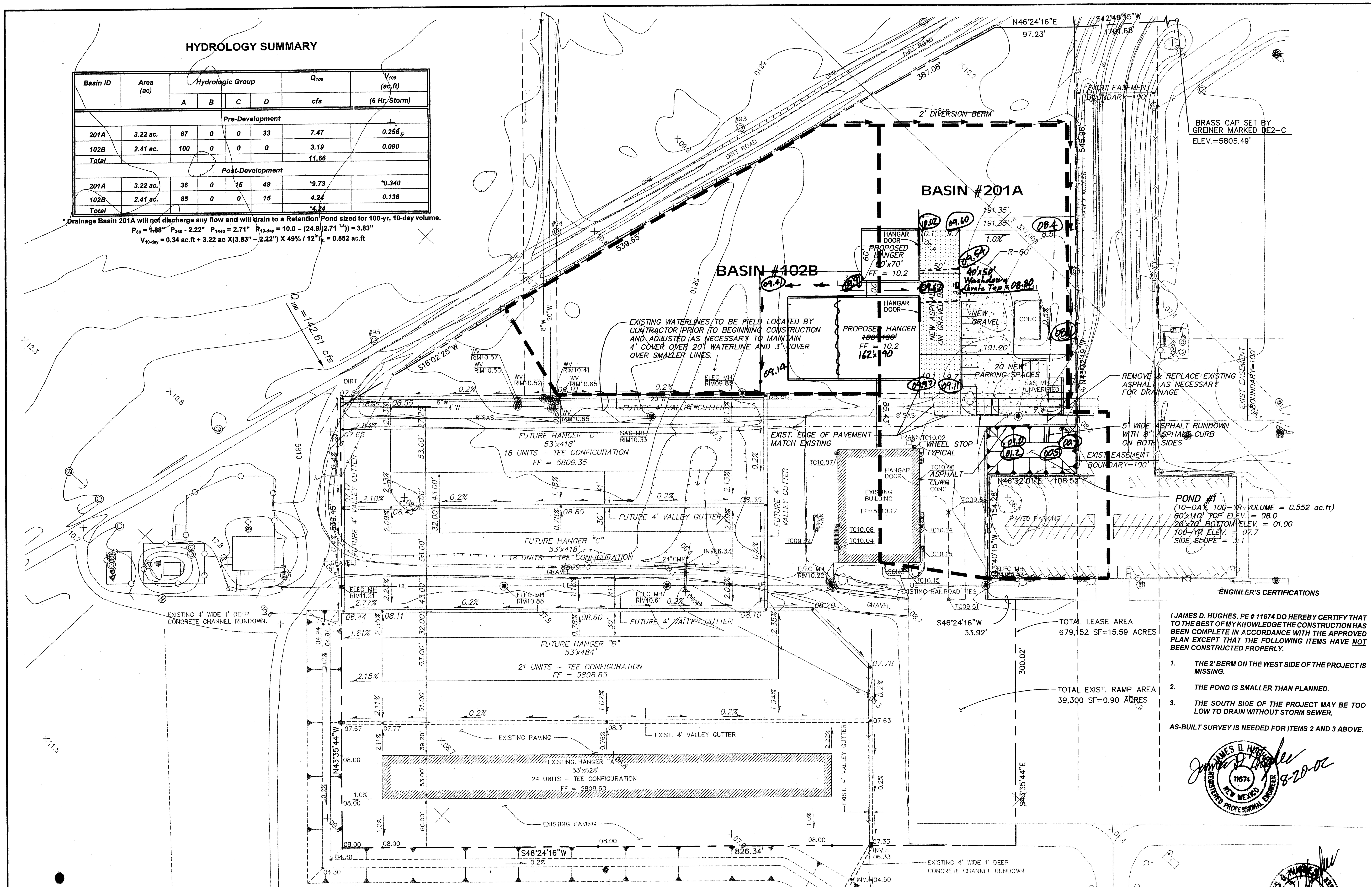
A TRACT OF LAND SITUATED IN THE NW 1/4 OF SECTION 25 AND THE NE 1/4 OF SECTION 26, TOWNSHIP 11 NORTH, RANGE 1 EAST, N.M.P.M.

NOTES

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL ABOVE AND BELOW GROUND UTILITIES ON SITE AND IS REQUIRED TO MAKE REPAIRS TO ANY UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION AT NO COST TO THE CITY OF ALBUQUERQUE.
2. CONTRACTOR SHALL SUBMIT A COPY OF HIS SWPPP TO AVIATION DEPARTMENT PRIOR TO THE START OF CONSTRUCTION.
3. TENANT SHALL SUBMIT A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR AVIATION DEPARTMENT REVIEW AND APPROVAL PRIOR TO THE START OF CONSTRUCTION.

DRAINAGE MANAGEMENT PLAN

MOST OF THE PROJECT WILL DRAIN TO A NEW ONSITE RETENTION POND SO POST DEVELOPED FLOW WILL BE LESS THAN PREDEVELOPED FLOW AND THERE WILL BE NO ADVERSE DOWNSTREAM IMPACT. SEE PREVIOUS PROJECT FOR ARV INC. EXPANSION PROJECT (1-20-00).



NOTES:

1. TOPOGRAPHIC SURVEY PERFORMED BY CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC. ALBUQUERQUE, NEW MEXICO. NOVEMBER 1996.
2. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND SHOWN COMPRISE ALL THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED ACCURATELY ASS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES, EXCEPT AS NOTED.
3. THE TOTAL LAND DISTURBANCE WITH THE PROJECT IS ABOUT 1.5 ACRES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A LAND DISTURBANCE PERMIT PRIOR TO BEGINNING CONSTRUCTION. FILING 402 NPDES NOTICE OF INTENT (NOI) IS NOT REQUIRED. DISTURBED AREAS THAT ARE NOT PAVED ARE SEEDED PER COA STANDARDS AND SPECIFICATIONS WITH NATIVE SEED AND MULCHED.
4. CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS".
5. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
6. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR THE SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY.

ENGINEER'S CERTIFICATIONS

I JAMES D. HUGHES, PE # 11674 DO HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THE CONSTRUCTION HAS BEEN COMPLETE IN ACCORDANCE WITH THE APPROVED PLAN EXCEPT THAT THE FOLLOWING ITEMS HAVE <u>NOT</u> BEEN CONSTRUCTED PROPERLY.

1. THE 2' BERM ON THE WEST SIDE OF THE PROJECT IS MISSING.
2. THE POND IS SMALLER THAN PLANNED.
3. THE SOUTH SIDE OF THE PROJECT MAY BE TOO LOW TO DRAIN WITHOUT STORM SEWER.

AS-BUILT SURVEY IS NEEDED FOR ITEMS 2 AND 3 ABOVE.

JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 8-20-02

JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 9-19-01

RECEIVED AUG 2 0 2002 HYDROLOGY SECTION

LEGEND

- PROPERTY LINE
- PROPOSED 4' VALLEY GUTTER PER COA DWG. 2421
- 5808 EXISTING CONTOUR
- 8"SAS EXISTING SANITARY SEWER LINE
- 4"W EXISTING WATERLINE
- OHE EXISTING OVERHEAD POWER LINE
- UE EXISTING UNDERGROUND POWER LINE
- EXISTING BARBED WIRE FENCE
- EXISTING CHAINLINK FENCE
- EXISTING WATER VALVE
- 08.10 PROPOSED SPOT ELEVATION
- PROPOSED FLOW DIRECTION
- NEW ASPHALT THIS PROJECT
- NEW GRAVEL THIS PROJECT
- LIMITS OF GRADING THIS PROJECT
- WATERSHED BOUNDARIES

SCALE: 1" = 60' (60' 30' 0 60' 120')

ARV INC. EXECUTIVE HANGERS

GRADING & DRAINAGE PLAN

dmg 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: NHM	Checked: DMG	Sheet 1 of 1
Scale: 1" = 60'	Date: 9-17-01	Job: A01103	

A01103/A1103GD60 9-17-01 NHM

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