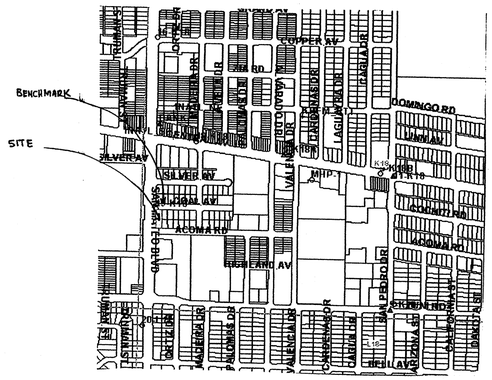


VICINITY MAP K18

FEMA PANEL NO. 0354D

GRADING/DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING LOT 1A, BLOCK 3 EVANS ADDITION (300A SAN MATEO S.E.) ARE CONTAINED HEREON:

EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 0.365 ACRES MORE OR LESS AND IS LOCATED ON THE EAST SIDE OF SAN MATEO BLVD. S.E. BETWEEN COAL AVENUE S.E. & ACOMA RD. S.E. CURRENTLY THE SITE IS OCCUPIED WITH A 1452 SQ. FT. BUILDING ALONG WITH PAVED PARKING AND ASSOCIATED LANDSCAPED AREAS. THE SITE IS COMPLETELY PAVED. AS SHOWN BY THE FLOOD INSURANCE RATE MAP, PANEL 0354D, DATED SEPTEMBER 20, 1996, THIS SITE IS ENCROACHED BY AN AO-1' FLOODING ZONE LOCATED WITHIN THE STREET RIGHT-OF-WAY.

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROPOSED PROJECT WILL CONSIST OF AN EMISSION TESTING BOOTH. THE EXISTING ASPHALT WILL BE CUT TO ALLOW FOR THE CONSTRUCTION OF THE NEW BUILDING. ADDITIONAL LANDSCAPING HAS DECREASED THE FLOW RATE. A PROPOSED CONCRETE CURB WILL DIVERT THE FLOWS AWAY FROM THE PUBLIC SIDEWALK AND INTO SAN MATEO BLVD. THROUGH THE EXISTING CURB CUT. THE CALCULATIONS, WHICH APPEAR HEREON, ANALYZE BOTH EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40-ACRES AND SMALLER BASINS AS SET FORTH IN THE REVISION OF SECTION 22.2 WAS USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED.

PROJECT AREA = 0.365 ac.
EMISSIONS TESTING BUILDING
ZONE 3
PRECIPITATION: 360 = 2.60 in.
1440 = 3.1 in.
10day = 4.9 in.

	EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.66 in.	1.87 cfs/ac.
TREATMENT B	0.92 in.	2.6 cfs/ac.
TREATMENT C	1.29 in.	3.45 cfs/ac.
TREATMENT D	2.36 in.	5.02 cfs/ac.

	EXISTING CONDITIONS: AREA	PROPOSED CONDITIONS: AREA
TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0 ac.
TREATMENT C	0.0064 ac.	0.017 ac.
TREATMENT D	0.3586 ac.	0.348 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E =(0.66)x(0.00)+(0.92)x(0.00)+(1.29)x(0.01)+(2.36)x(0.36)/ 0.37 ac.
= 2.34 in.
V100-360 =(2.34)x(0.37)/ 12 = 0.071213 ac-ft = 3102 CF

EXISTING PEAK DISCHARGE:

Q100 = (1.87)x(0.00)+(2.60)x(0.00)+(3.45)x(0.01)+(5.02)x(0.36)= 1.82 CFS

PROPOSED EXCESS PRECIPITATION:

Weighted E =(0.66)x(0.00)+(0.92)x(0.00)+(1.29)x(0.02)+(2.36)x(0.35)/ 0.37 ac.
= 2.31 in.
V100-360 =(2.31)x(0.37)/ 12.0 = 0.070268 ac-ft = 3061 CF

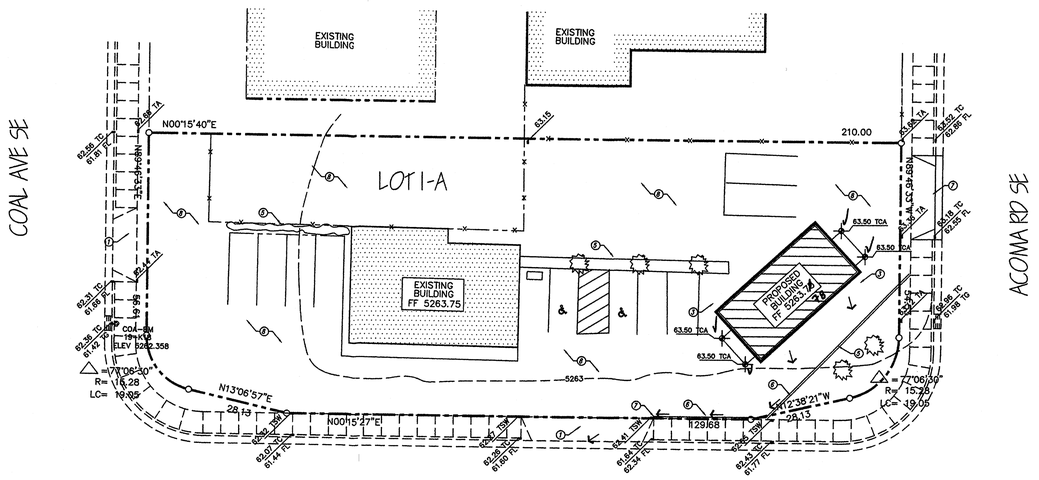
V100-1440 =(0.07)+(0.35)x(3.10 - 2.60)/ 12 = 0.084768 ac-ft = 3692 CF

V100-10day =(0.07)+(0.35)x(4.90 - 2.60)/ 12 = 0.136968 ac-ft = 5966 CF

PROPOSED PEAK DISCHARGE:

Q100 = (1.87)x(0.00)+(2.60)x(0.00)+(3.45)x(0.02)+(5.02)x(0.35)= 1.81 CFS

DECREASE 1.82 CFS - 1.81 CFS = 0.01 CFS



NOTICE TO CONTRACTOR

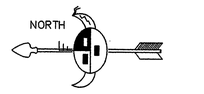
1. An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
2. All work detailed in this plan to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Standard Specification for Public Works Construction.
3. Two working days prior to any excavation, contractor must contact line locating Services for locating existing utilities, (260-1990).
4. Prior to construction, the contractor shall excavate and verify the horizonal and vertical location of all construction. 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 Commercial use.
6. All work on this project shall be performed in accordance with applicable Federal, State and local laws, rules and regulations concerning construction safty and health.
7. Maintenance of this facilities shall be the responsibility of the owner of the property served.

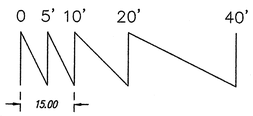
SYMBOL LEGEND

EXISTING CONTOUR — 4930
DESIGN CONTOUR — 30
PROPOSED SPOT ELEVATION — 66.50 TC
PROPERTY LINE
EASEMENT LINE
FLOW DIRECTION — 102.0
EXISTING SPOT ELEVATION
DOWN SPOUT (NO TO SCALE)

ABBREVIATION LEGEND

TOP OF CONC APRON	-	TCA
TOP OF CURB	-	TC
TOP OF ASPHALT	-	TA
TOP OF BERM	-	TB
BOTTOM OF POND	-	BP
FINISHED FLOOR	-	FF





GRADING & DRAINAGE PLAN

Scale 1"=20'-0"

KEYED NOTES:

1. EXISTING DRIVE PAD
2. NEW DRIVE PAD PER AOA STD DWG 2425
3. REMOVE ASPHALT AND PATCH TO DRAIN AWAY FROM BUILDING
4. CONCRETE APRON
5. SAW CUT AND REMOVE ASPHALT FOR LANDSCAPE AREA
6. 6" HIGH EXTRUDED ASPHALT CURB
7. END CURB TO ALLOW FLOW TO DISCHARGE INTO STREET
8. EXISTING ASPHALT

DRAINAGE CERTIFICATION

I WALLACE L. BINGHAM NMPE 7281, 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 06/12/2003. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST ON MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR RELEASE OF CERTIFICATE OCCUPANCY.

AS-BUILT DESIGNATION 63.10 ~~63.08~~ OR 63.50✓

WALLACE L. BINGHAM NEW MEXICO 7281 LICENSED PROFESSIONAL ENGINEER
9/29/03

WALLACE L. BINGHAM NEW MEXICO 7281 REGISTERED PROFESSIONAL ENGINEER
6/12/03

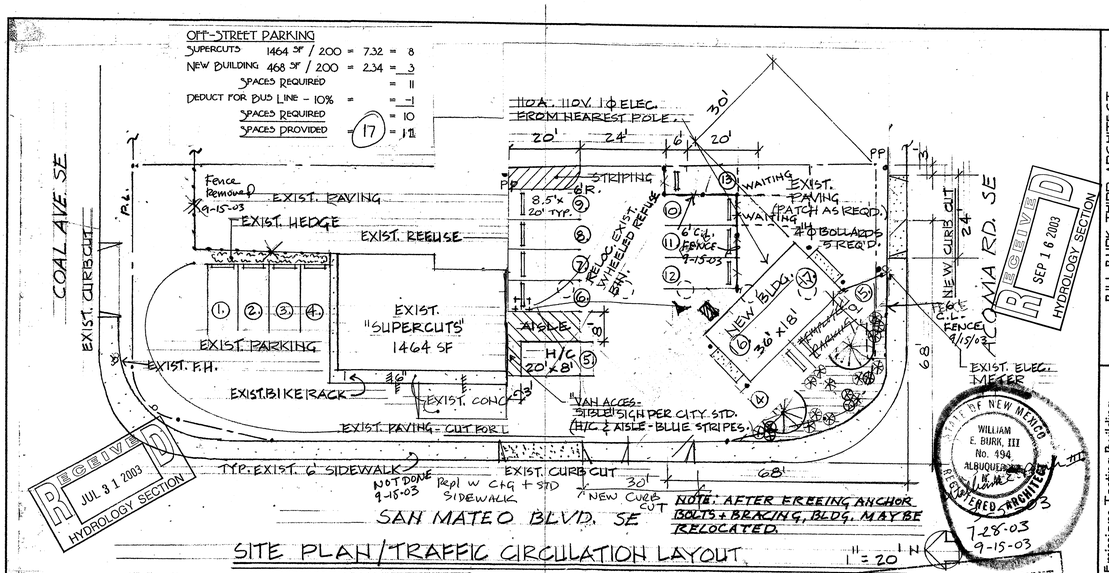
JOB NO: XXXXXXXX
JUNE 2003
REVISIONS

Sheet Title: GRADING & DRAINAGE PLAN
Drawn By: H.Hood & B.J.Montoya Checked By:

Project Name: EMISSIONS TESTING BUILDING
300A SAN MATEO SE
ALBUQUERQUE, NEW MEXICO

RECEIVED
SEP 30 2003
HYDROLOGY SECTION

SHEET NO.
GD



BILL BURK, THIRD, ARCHITECT
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(505) 292-6566 • Fax (505) 294-7252 • bburk@earthlink.net

Emissions Testing Building
for Hung Nguyen
300-A San Mateo, SE • Albuquerque, NM

SITE PLAN & TCL	2 Mar 03
1 of	#03-04
1	

APPROVED TCL
SAVE FOR CERTIFICATION