

FIRM PANEL 0331D

HYDROLOGY SECTION

LOMAS BLVD

3 REPLA

VICINITY MAP J-13

GRAPHIC SCALE

(IN FEET) 1 inch = 20 ft.

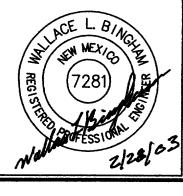
6"X6" NO. 6 WELDED-

LEGEND

EXISTING BOLLARD

EXISTING CURB AND GUTTER

WIRE MESH



DATE: JUNE 2002 REVISIONS FEBRUARY 2003

SHEET NO.

GRADING/PAVING PLAN

THE FOLLOWING ITEMS CONCERNING LOT 6A BLOCK 25 PEREA ADDITION (1025 LOMAS BLVD. N.W.) ARE CONTAINED HEREON:

EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 0.38 ACRES MORE OR LESS AND IS LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF LOMAS BLVD. N.W. AND 11 TH STREET N.W.. CURRENTLY THE SITE IS OCCUPIED BY SEVERAL BUILDINGS TOTALLING 4300 SQ. FT. ALONG WITH ASSOCIATED PARTIALLY PAVED PARKING. THE SITE IS FLAT IN GRADE WITH PONDING WITHIN CERTAIN AREAS. AS SHOWN BY THE FLOOD INSURANCE RATE MAP, PANEL 0331D, DATED SEPTEMBER 20,1996, THIS SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/PAVING PLAN, THE PROPOSED PROJECT WILL CONSIST OF NEW ASPHALT PAVING WITHIN THE EXISTING ASPHALT AND DIRT AREAS. BECAUSE OF THE FLAT TOPOGRAPHY, A CONCRETE VALLEY GUTTER WILL BE UTILIZED WITHIN THE LOT TO COLLECT AND DISPOSE THE RUN-OFF INTO LOMAS BLVD. N.W.. THERE IS AN EXISTING AGREEMENT THAT ALLOWS LOT 6A TO UTILIZE THE EXISTING CONCRETE VALLEY GUTTER WITHIN LOT A1 TO THE EAST FOR THE RUN-OFF TO BE DISPOSED INTO LOMAS BLVD., FROM WHICH POINT IT TRAVEL EAST TOWARDS AN EXISTING DRAIN INLET. 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 = 0.38 ac. LOMAS LAW COMPLEX ZONE 2 PRECIPITATION: 360 = 2.35 in 1440 = 2.75 in.10day = 3.95 in.**EXCESS PRECIPITATION:** TREATMENT A 0.53 in. TREATMENT B 0.78 in. TREATMENT C 1.13 in. TREATMENT D 2.12 in.

4.70 cfs/ac. **EXISTING CONDITIONS:** PROPOSED CONDITIONS: AREA AREA TREATMENT A 0 ac. 0 ac. TREATMENT B 0 ac. TREATMENT C 0.1493 ac. 0.0551 ac. TREATMENT D 0.2307 ac. 0.3249 ac.

EXISTING EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.15)+(2.12)x(0.23)/ 0.38 ac. = 1.73 in. V100-360 = (1.73)x(0.38)/12 = 0.054816 ac-ft = 2388 CF

PEAK DISCHARGE:

1.56 cfs/ac.

2.28 cfs/ac.

3.14 cfs/ac.

EXISTING PEAK DISCHARGE:

Q100 = (1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(0.15)+(4.70)x(0.23)=1.55 CFS

PROPOSED EXCESS PRECIPITATION:

Weighted E = (0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.06)+(2.12)x(0.32)/0.38 ac. = 1.98 in.

V100-360 = (1.98)x(0.38)/12.0 = 0.062588 ac-ft = 2726 CF

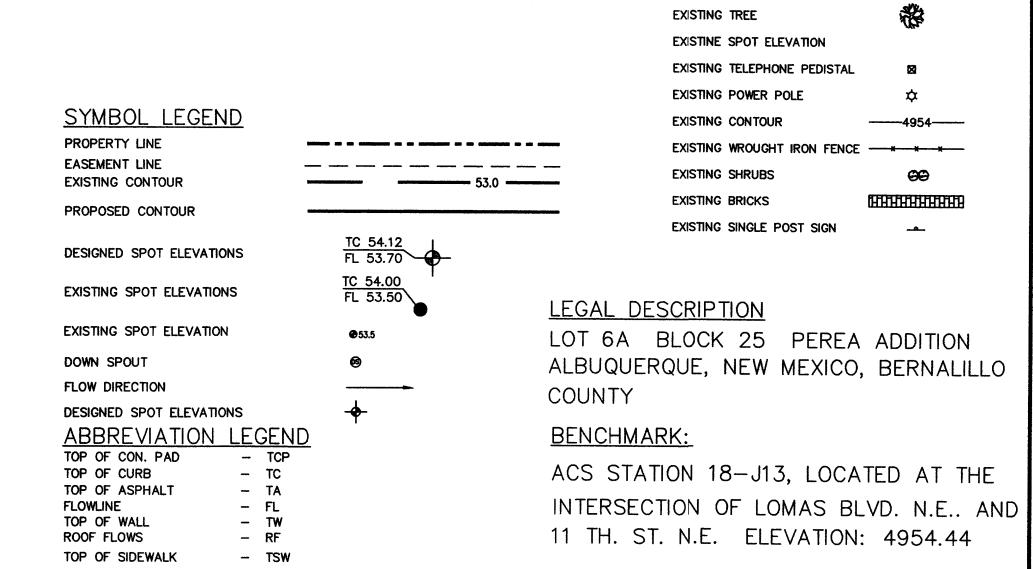
V100-1440 = (0.06) + (0.32)x(2.75 - 2.35) / 12 = 0.073418 ac-ft = 3198 CF

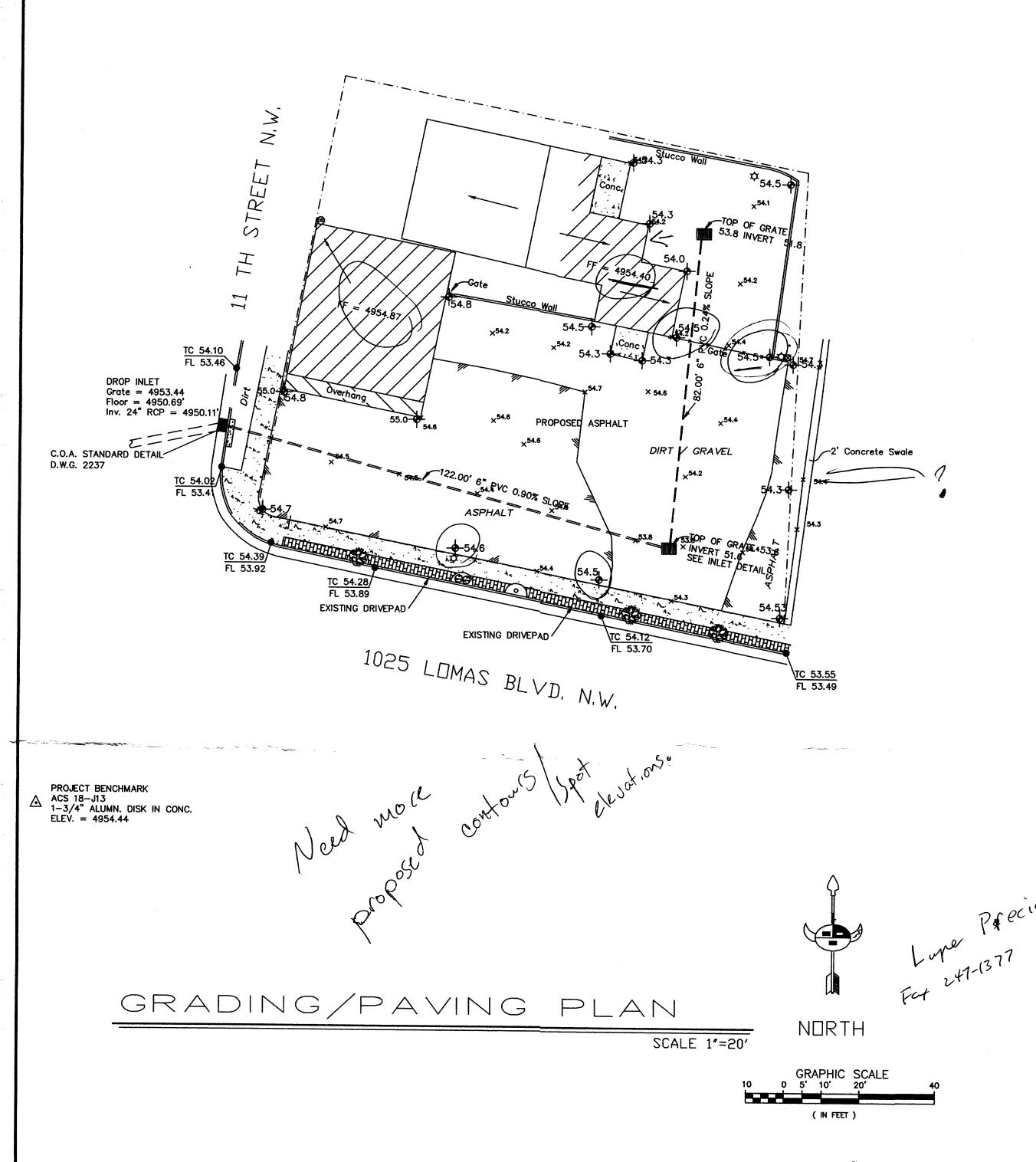
V100-10day =(0.06)+(0.32)x(3.95 - 2.35)/ 12 = 0.105908 ac-ft = 4613 CF

PROPOSED PEAK DISCHARGE:

Q100 = $(1.56) \times (0.00) + (2.28) \times (0.00) + (3.14) \times (0.06) + (4.70) \times (0.32) = 1.70 CFS$

INCREASE 1.70 CFS - 1.55 CFS = 0.15 CFS





EROSION CONTROL MEASURES

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUN-OFF DURING CONSTRUCTION, HE SHALL ASSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- 1. ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY TEMPORARY BERMS, DIKES, SWALES, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUN-OFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTY.
- 2. ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUN-OFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.
- 3. THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY OR ALL SEDIMENT WITHIN THE PUBLIC STREETS THAT HAVE BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

DRAINAGE FACILITIES WITHIN CITY RIGHT OF WAY

HYDROLOGY APPROVAL

GRADING/PAVING PLAN

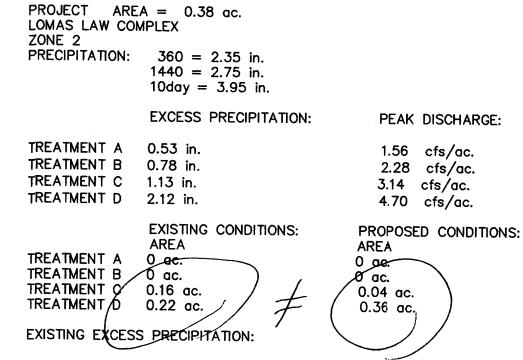
THE FOLLOWING ITEMS CONCERNING LOT 6A BLOCK 25 PEREA ADDITION (1025 LOMAS BLVD. N.W.) ARE CONTAINED HEREON:

EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 0.38 ACRES MORE OR LESS AND IS LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF LOMAS BLVD. N.W. AND 11 TH STREET N.W.. CURRENTLY THE SITE IS OCCUPIED BY SEVERAL BUILDINGS TOTALLING4300 SQ. FT. ALONG WITH ASSOCIATED PARTIALLY PAVED PARKING. THE SITE IS FLAT IN GRADE WITH PONDING WITHIN CERTAIN AREAS. AS SHOWN BY THE FLOOD INSURANCE RATE MAP, PANEL 0331D, DATED SEPTEMBER 20,1996, THIS SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/PAVING PLAN, THE PROPOSED PROJECT WILL CONSIST OF NEW ASPHALT PAVING WITHIN THE EXISTING ASPHALT AND DIRT AREAS. BECAUSE OF THE FLAT TOPOGRAPHY, TWO DRAIN INLETS WILL BE UTILIZED WITHIN THE LOT TO COLLECT AND DISPOSE THE RUN-OFF INTO THE EXISTING CATCH BASIN LOCATED ON 11 TH STREET N.W.. 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.



Weighted E = $(0.53) \times (0.00) + (0.78) \times (0.00) + (1.13) \times (0.16) + (2.12) \times (0.22) / 0.38$ ac. = 1.70 in. V100-360 = $(1.70) \times (0.38) / 12 = 0.053933$ ac-ft = 2349 CF EXISTING PEAK DISCHARGE:

Q100 = $(1.56) \times (0.00) + (2.28) \times (0.00) + (3.14) \times (0.16) + (4.70) \times (0.22) = 1.54$ CFS PROPOSED EXCESS PRECIPITATION:

Weighted E =(0.53)x(0.00)+(0.78)x(0.00)+(1.13)x(0.04)+(2.12)x(0.36)/ 0.38 ac. = 2.13 in. V100-360 =(2.13)x(0.38)/ 12.0 = 0.067367 ac-ft = 2934 CF

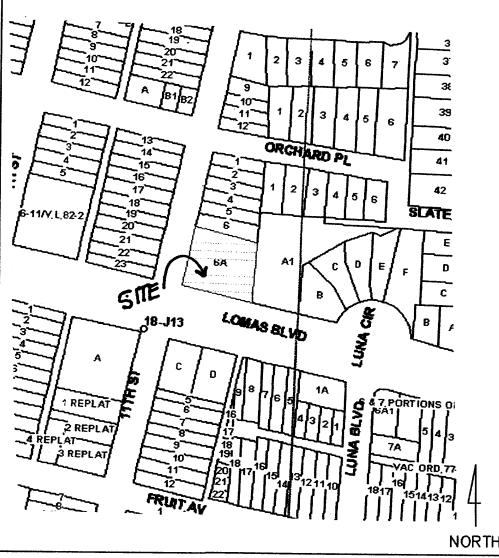
V100-10 de V10

Q100 = (1.56)x(0.00)+(2.28)x(0.00)+(3.14)x(0.04)+(4.70)x(0.36)=1.82 CFS INCREASE 1.82 CFS - 1.54 CFS = 0.28 CFS

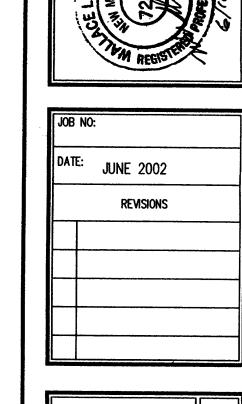
NOTE TO CONTRACTOR:

PROPOSED PEAK DISCHARGE:

- 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.
- 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.
- Two working days prior to any excavation, cortractor must contact line locating Services (760-1990) for locating existing sub-surface utilities.
- 4. Prior to construction, the contractor shall excivate and verify the horizonal and vertical location of all potential constructions; Should a conflict exist, the contractor shall notify the ngineer so that the conflict can be resolved with a minimum impount of delay to the subject project.
- 5. Backfill compaction shall be according to commercial use or soils report(s) recommendations.
- 6. All work on this project shall be performed in accordance with applicable Federal, State and local laws, rules and regulations concerning construction safety and health.
- 7. Maintenance of this facilities shall be the respnsibility of the owner of the property it serves

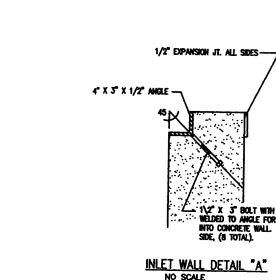






FIRM PANEL 0331D

Sheet Title
GRADING/PAVING PLA



CONCRETE FOR NEW INLET STRUCTURE SHALL BE 4000#-28-DAY STRENGTH. REBAR SHALL BE GRADE 40 BARS. ALL SMALL DIAMETER PVC PIPE SHALL BE SDR 26 PIPE.

 GRATE IS STD. COA INLET GRATE SEE STD. DETAIL 2220

4'-0"

INLET PLAN

SYMBOL LEGEND

PROPERTY LINE

EXISTING CONTOUR

PROPOSED CONTOUR

DESIGNED SPOT ELEVATIONS

EXISTING SPOT ELEVATIONS

EXISTING SPOT ELEVATION

DESIGNED SPOT ELEVATIONS

ABBREVIATION LEGEND

TCP

- TC

– TA

- FL

- TW

- TSW

DOWN SPOUT

FLOW DIRECTION

TOP OF CON. PAD

TOP OF CURB

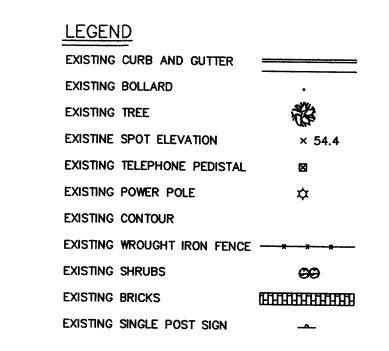
FLOWLINE

TOP OF WALL

ROOF FLOWS

TOP OF ASPHALT

TOP OF SIDEWALK



1017 		53.0
 - -	TC 54.12 FL 53.70	
Т	C 54.00 FL 53.50	LFG

LEGAL DESCRIPTION	
LOT 6A BLOCK 25 ALBUQUERQUE, NEW COUNTY	PEREA ADDITION MEXICO, BERNALILLO

BENCHMARK:

ACS STATION 18-J13, LOCATED AT THE INTERSECTION OF LOMAS BLVD. N.E.. AND 11 TH. ST. N.E. ELEVATION: 4954.44

