

EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUNOFF DURING CONSTRUCTION. HE SHALL ENSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SUBJECT SITE AND ENTERING ADJACENT PROPERTIES.
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SUBJECT SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREET RIGHT-OF-WAYS.
- THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT FROM PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SUBJECT SITE AND DEPOSITED THEREON.

CONSTRUCTION NOTES:

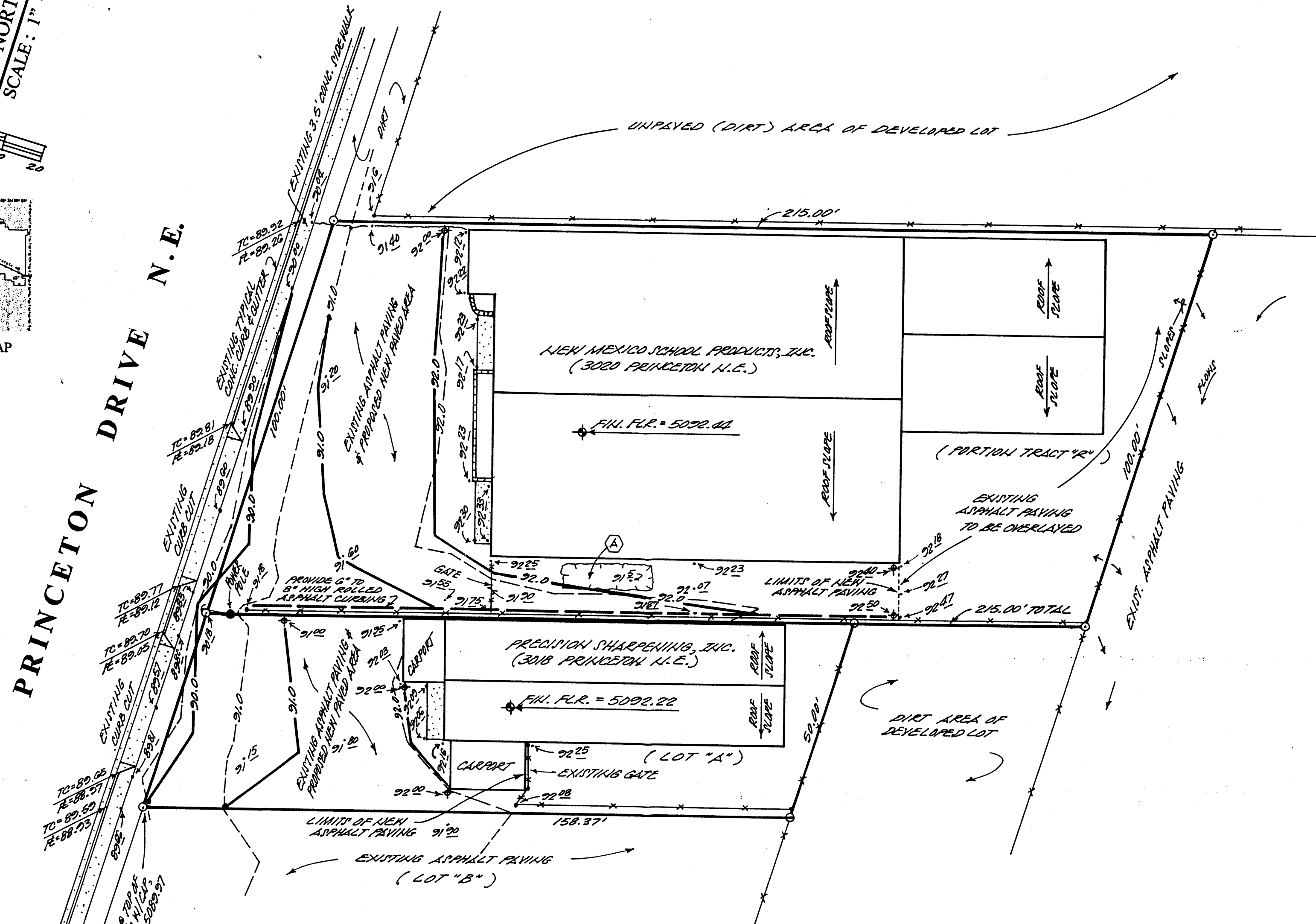
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-16-90 FOR THE ACTUAL FIELD LOCATION OF THE EXISTING SURFACE OF SUB-SURFACE UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION(S) OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.

LEGEND:

TOP OF CURB ELEVATION = 70'-02.0'
CURB FLOWLINE ELEVATION = 72'-02.12'
EXISTING SPOT ELEVATION = 71'-13'
EXISTING CONTOUR ELEVATION = 71'-0'
PROPOSED SPOT ELEVATION = 72'-02.0'
PROPOSED CONTOUR ELEVATION = 71'-0'
PROPOSED OR EXISTING CONCRETE SURFACE =

GENERAL NOTES:

- NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD OTHER THAN SHOWN HEREON.



NOTE: OVEREXCAVATE, RE-FILL, COMPACT AND RE-PAVE TO SPECIFICATIONS SHOWN ON THE PLAN HEREON.

GRADING/PAVING PLAN

THE FOLLOWING ITEMS CONCERNING (3018 PRINCETON DR. N.E.) LOT A ROSE-MATTHEW, BERNALILLO COUNTY, ALBUQUERQUE, NEW MEXICO ARE CONTAINED HEREON:

EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 0.1732 ACRES AND IS LOCATED NORTH OF CANDELARIA RD. N.E. AND EAST OF PRINCETON DR. N.E. THE SITE IS COMPLETELY DEVELOPED WITH AN EXISTING BUILDING ALONG WITH PAVED PARKING AND LANDSCAPED AREAS. ACCORDING TO THE FLOOD INSURANCE RATE MAP, PANEL 0351D, DATED SEPTEMBER 20, 1996, THE SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/PAVING PLAN, THE PROJECT WILL CONSIST OF PULVERIZATION OF THE EXISTING ASPHALT PAVED AREAS (FRONT AREA ONLY). THE EXISTING ASPHALT WILL BE REPLACED WITH NEW ASPHALT ACCORDING TO THE GRADES SHOWN ON THE GRADING/PAVING PLAN. NO INCREASE IN RUN-OFF WILL OCCUR. THE RUN-OFF WILL BE ROUTED OUT THE EXISTING DRIVEPAD. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40-ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME II, DESIGN CRITERIA DATED 1997 HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED.

PROJECT	AREA = 0.09 ac
3018 PRINCETON NE	
ZONE 2	
PRECIPITATION:	360 = 2.35 in.
	1440 = 2.75 in.
	10day = 3.95 in.

EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in. 1.56 cfs/ac
TREATMENT B	0.78 in. 2.28 cfs/ac
TREATMENT C	1.13 in. 3.14 cfs/ac
TREATMENT D	2.12 in. 4.70 cfs/ac

EXISTING CONDITIONS:	PROPOSED CONDITIONS:
AREA	AREA
TREATMENT A	0 ac.
TREATMENT B	0 ac.
TREATMENT C	0 ac.
TREATMENT D	0.08 ac.

EXISTING EXCESS PRECIPITATION:

$$\text{Weighted E} = (0.53 \times 0.00) + (0.78 \times 0.00) + (1.13 \times 0.00) + (2.12 \times 0.08) = 2.00 \text{ in.}$$

$$V_{100-360} = (2.00 \times 0.09) \times 12 = 0.014275 \text{ ac-ft} = 622 \text{ cf}$$

EXISTING PEAK DISCHARGE:

$$Q_{100} = (1.56 \times 0.00) + (2.28 \times 0.00) + (3.14 \times 0.00) + (4.70 \times 0.08) = 0.38$$

PROPOSED EXCESS PRECIPITATION:

$$\text{Weighted E} = (0.53 \times 0.00) + (0.78 \times 0.00) + (1.13 \times 0.00) + (2.12 \times 0.08) = 2.00 \text{ in.}$$

$$V_{100-360} = (2.00 \times 0.09) \times 12.0 = 0.014303 \text{ ac-ft} = 623 \text{ cf}$$

$$V_{100-1440} = (0.01 \times 0.08) \times 2.75 - 2.35 \times 12 = 0.016943 \text{ ac-ft} = 738 \text{ cf}$$

$$V_{100-10day} = (0.01 \times 0.08) \times 3.95 - 2.35 \times 12 = 0.024863 \text{ ac-ft} = 1083 \text{ cf}$$

PROPOSED PEAK DISCHARGE:

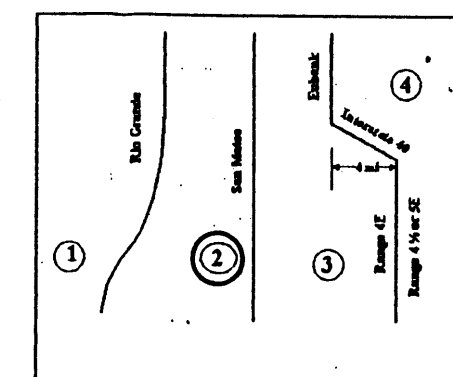
$$Q_{100} = (1.56 \times 0.00) + (2.28 \times 0.00) + (3.14 \times 0.00) + (4.70 \times 0.08) = 0.38$$

A.1 PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

ZONE	LOCATION
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
3	Between San Mateo and Eubank, North of Interstate 40, and between San Mateo and the East boundary of Range 4 East, South of Interstate 40
4	East of Eubank, North of Interstate 40, and East of the East boundary of Range 4 East, South of Interstate 40

TABLE A-10. PEAK INTENSITY (IN/HR at $t_r=0.2$ hour)		
Zone	Intensity	100-YR (2-YR, 10-YR)
1	4.70 (1.84, 3.14)	
2	5.05 (2.04, 3.41)	
3	5.38 (2.21, 3.65)	
4	5.61 (2.34, 3.83)	



Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundwater and infiltration capacity. Croplands. Unirrigated Arroyos.
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
C	Soil uncompacted by human activity. Minimal vegetation. Upward parking, roads, trails. Most vacant lots. Gravel or rock on plastic (sheet landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds, and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.

Zone	Treatment	100-YR (2-YR, 10-YR)
1	A	1.29 (0.00, 0.24)
2	B	2.03 (0.33, 0.76)
3	C	2.87 (0.47, 1.49)
4	D	4.37 (1.69, 2.89)

GRADING/PAVING PLAN

THE FOLLOWING ITEMS CONCERNING (3020 PRINCETON DR. N.E.) PORTION OF TRACT "R" MENAUL DEVELOPMENT AREA, BERNALILLO COUNTY, ALBUQUERQUE, NEW MEXICO ARE CONTAINED HEREON:

EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 0.4684 ACRES AND IS LOCATED NORTH OF CANDELARIA RD. N.E. AND EAST OF PRINCETON DR. N.E. THE SITE IS COMPLETELY DEVELOPED WITH AN EXISTING 10,644 SQ. FT. BUILDING ALONG WITH PAVED PARKING AND LANDSCAPED AREAS. ACCORDING TO THE FLOOD INSURANCE RATE MAP, PANEL 0351D, DATED SEPTEMBER 20, 1996, THE SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/PAVING PLAN, THE PROJECT WILL CONSIST OF PULVERIZATION OF THE EXISTING ASPHALT PAVED AREAS. THE EXISTING ASPHALT WILL BE REPLACED WITH NEW ASPHALT ACCORDING TO THE GRADES SHOWN ON THE GRADING/PAVING PLAN. NO INCREASE IN RUN-OFF WILL OCCUR. THE RUN-OFF WILL BE ROUTED OUT THE EXISTING DRIVEPAD. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40-ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME II, DESIGN CRITERIA DATED 1997 HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED.

PROJECT	AREA = 0.47 ac.
NEW MEXICO SCHOOL SUPPLIES	
ZONE 2	
PRECIPITATION:	360 = 2.35 in.
	1440 = 2.75 in.
	10day = 3.95 in.

EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A	0.53 in. 1.56 cfs/ac
TREATMENT B	0.78 in. 2.28 cfs/ac
TREATMENT C	1.13 in. 3.14 cfs/ac
TREATMENT D	2.12 in. 4.70 cfs/ac

EXISTING CONDITIONS:	PROPOSED CONDITIONS:
AREA	AREA
TREATMENT A	0 ac.
TREATMENT B	0 ac.
TREATMENT C	0 ac.
TREATMENT D	0.46 ac.

EXISTING EXCESS PRECIPITATION:

$$\text{Weighted E} = (0.53 \times 0.00) + (0.78 \times 0.00) + (1.13 \times 0.00) + (2.12 \times 0.46) = 2.11 \text{ in.}$$

$$V_{100-360} = (2.11 \times 0.47) \times 12 = 0.082445 \text{ ac-ft} = 3591 \text{ cf}$$

EXISTING PEAK DISCHARGE:

$$Q_{100} = (1.56 \times 0.00) + (2.28 \times 0.00) + (3.14 \times 0.00) + (4.70 \times 0.46) = 2.20$$

PROPOSED EXCESS PRECIPITATION:

$$\text{Weighted E} = (0.53 \times 0.00) + (0.78 \times 0.00) + (1.13 \times 0.00) + (2.12 \times 0.46) = 2.11 \text{ in.}$$

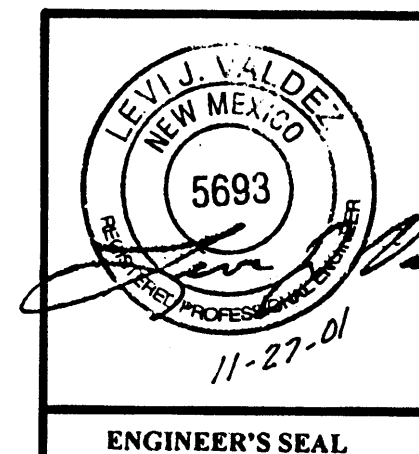
$$V_{100-360} = (2.11 \times 0.47) \times 12.0 = 0.082445 \text{ ac-ft} = 3591 \text{ cf}$$

$$V_{100-1440} = (0.08 \times 0.46) \times 2.75 - 2.35 \times 12 = 0.097935 \text{ ac-ft} = 4296 \text{ cf}$$

$$V_{100-10day} = (0.08 \times 0.46) \times 3.95 - 2.35 \times 12 = 0.144405 \text{ ac-ft} = 6290 \text{ cf}$$

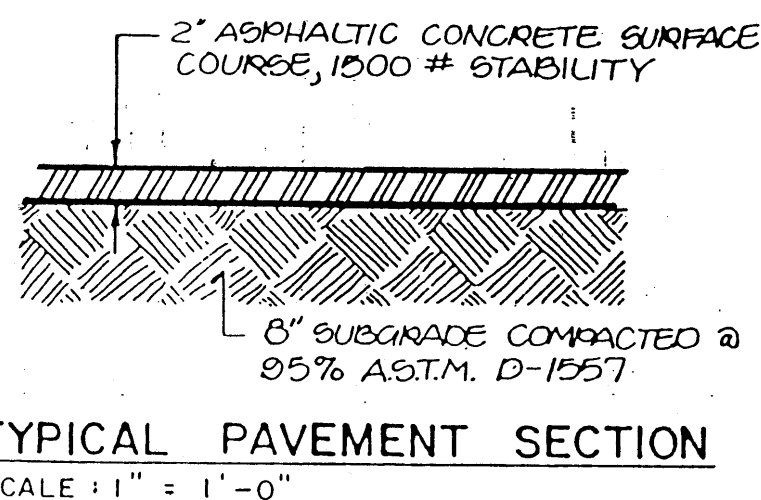
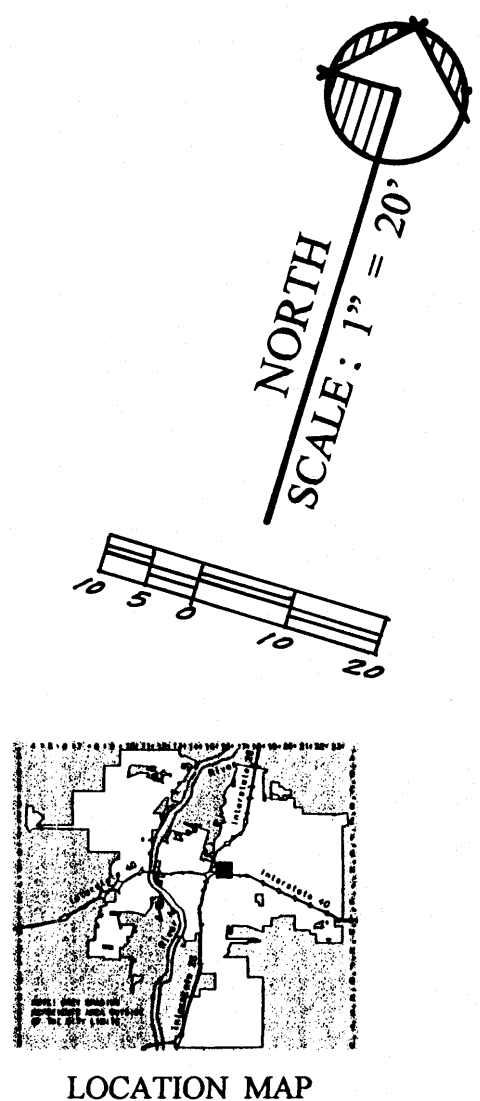
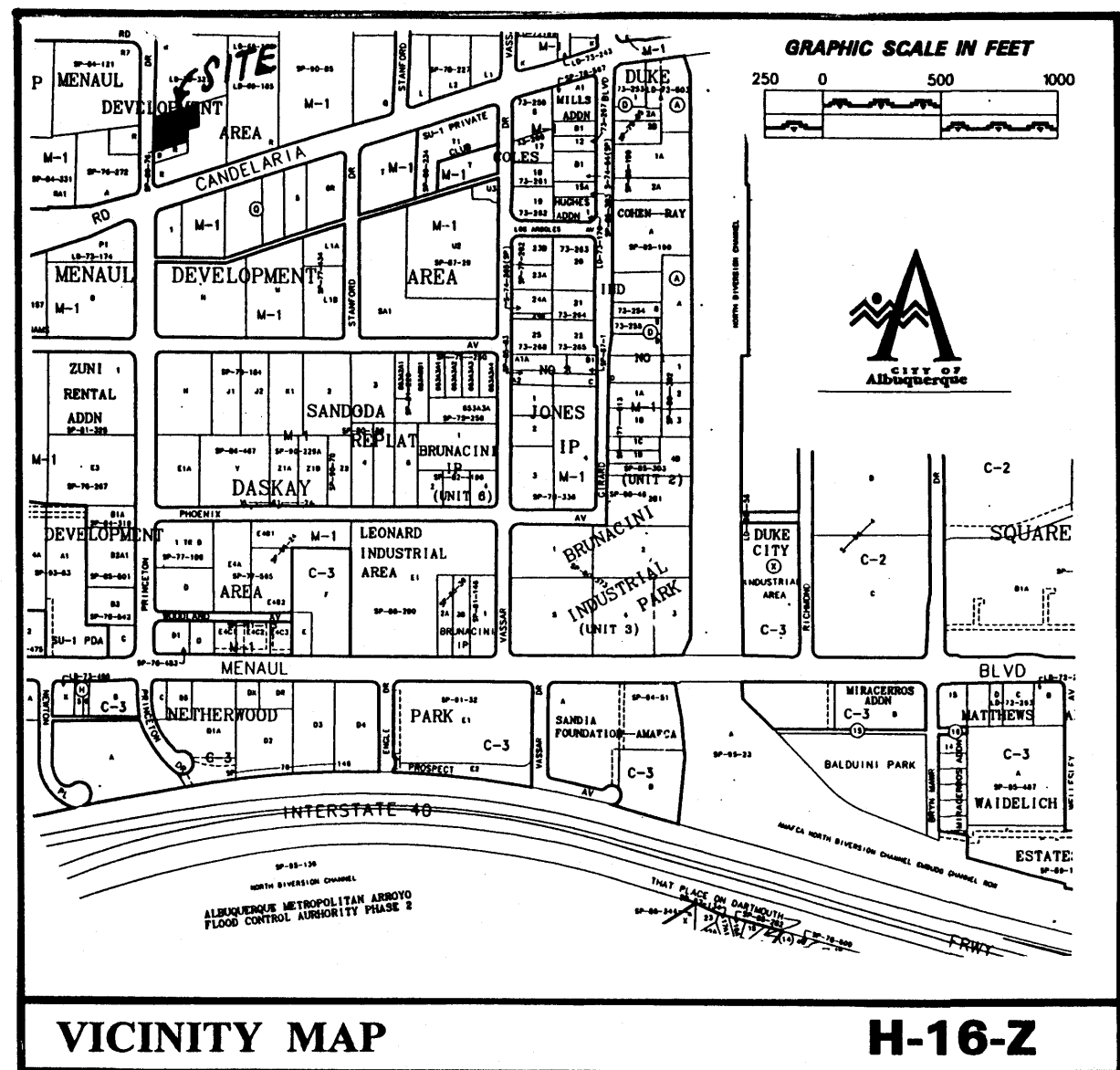
PROPOSED PEAK DISCHARGE:

$$Q_{100} = (1.56 \times 0.00) + (2.28 \times 0.00) + (3.14 \times 0.00) + (4.70 \times 0.46) = 2.20$$



A PROPOSED PAVING PLAN
FOR
3018 PRINCETON N.E.
AND
3020 PRINCETON N.E.
ALBUQUERQUE, NEW MEXICO
NOVEMBER, 2001

Revised 11/29/01
See DIS



EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUNOFF DURING CONSTRUCTION; HE SHALL ENSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SUBJECT SITE AND ENTERING ADJACENT PROPERTIES.
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SUBJECT SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREET RIGHT-OF-WAYS.
- THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT FROM PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SUBJECT SITE AND DEPOSITED THEREON.

CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-10-0 FOR THE ACTUAL FIELD LOCATION OF THE EXISTING SURFACE OF SUB-SURFACE UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION(S) OF ALL POTENTIAL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.

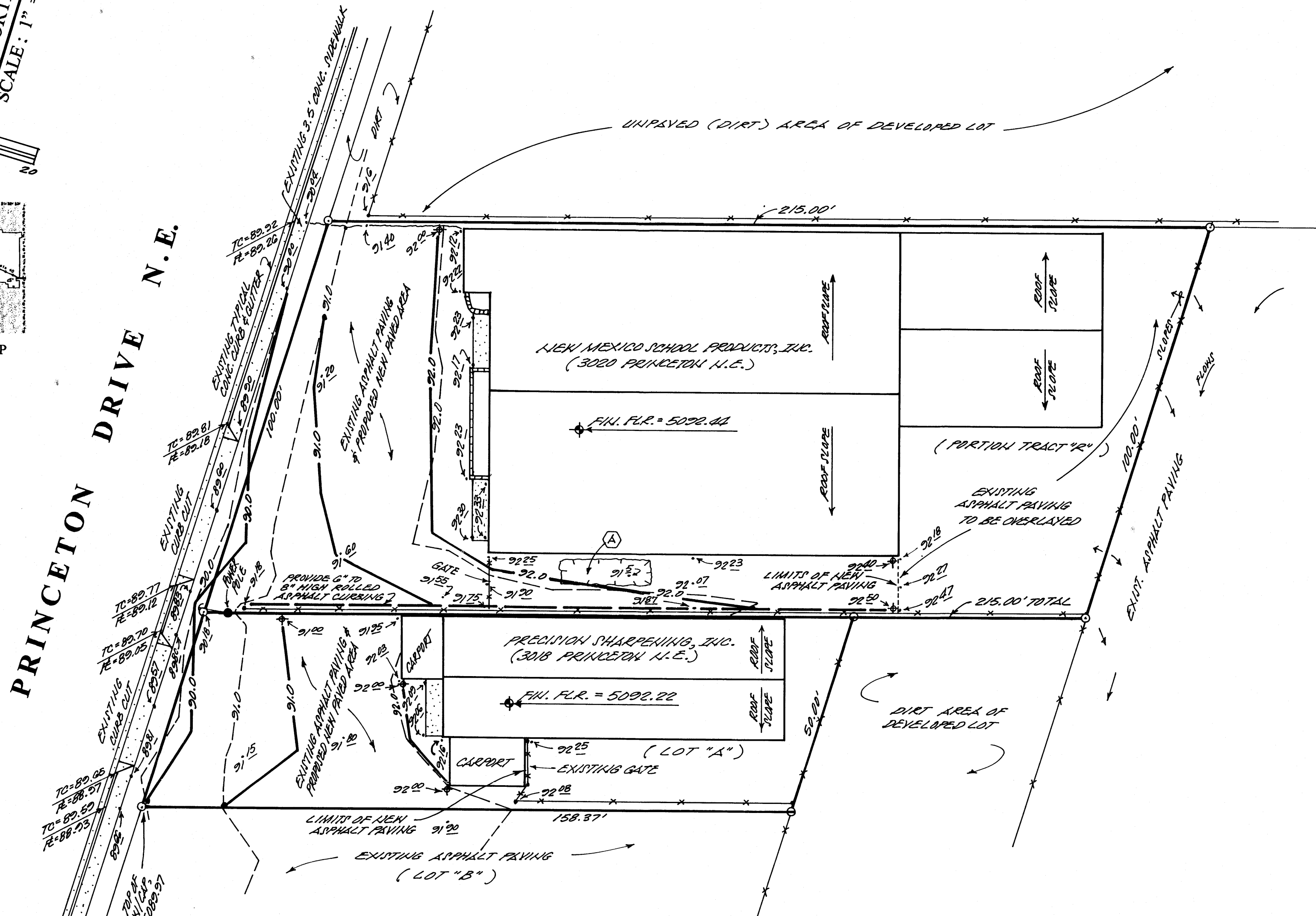
LEGEND:

TOP OF CURB ELEVATION = 70-89.81
CURB FLOWLINE ELEVATION = 72-89.12
EXISTING SPOT ELEVATION = 71-91.15
EXISTING CONTOUR ELEVATION = 71-91.0
PROPOSED SPOT ELEVATION = 72-92.0
PROPOSED CONTOUR ELEVATION = 71.0
PROPOSED OR EXISTING CONCRETE SURFACE = [Symbol]
EXISTING FENCE LINE = [Symbol]

GENERAL NOTES:

- NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD OTHER THAN SHOWN HEREON.

PRINCETON DRIVE N.E.



NOTE: OVEREXCAVATE, RE-FILL, COMPACT AND RE-PAVE TO SPECIFICATIONS SHOWN ON THE PLAN HEREON.

BENCH MARK REFERENCE:

ACS STATION "12-H16", LOCATED AT THE INTERSECTION OF CANDELARIA ROAD AND PRINCETON N.E.; M.S.L. ELEVATION = 5088.32, (PROJECT T.B.M. AS SHOWN ON THE PLAN HEREON).

NOTE: PARCEL LEGAL DESCRIPTIONS ARE REFERRED TO ON NARRATIVES.

PROJECT	AREA =	0.09 ac.
3018 PRINCETON NE		
ZONE 2		
PRECIPITATION:	360 =	2.35 in.
	1440 =	2.75 in.
	10day =	3.95 in.

EXCESS PRECIPITATION:		PEAK DISCHARGE:	
TREATMENT A	0.53 in.	1.56	cfs/ac.
TREATMENT B	0.78 in.	2.28	cfs/ac.
TREATMENT C	1.13 in.	3.14	cfs/ac.
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.		0 ac.
TREATMENT C	0 ac.		0.003 ac.
TREATMENT D	0.08 ac.		0.079 ac.

EXISTING EXCESS PRECIPITATION:

$$\text{Weighted E} = (0.53 \times 0.00) + (0.78 \times 0.00) + (1.13 \times 0.00) + (2.12 \times 0.08) = 0.09$$

$$\text{V100-360} = (2.00 \times 0.09) / 12 = 0.014275 \text{ ac-ft} = 622 \text{ cf}$$

EXISTING PEAK DISCHARGE:

$$Q_{100} = (1.56 \times 0.00) + (2.28 \times 0.00) + (3.14 \times 0.00) + (4.70 \times 0.08) = 0.38$$

PROPOSED EXCESS PRECIPITATION:

$$\text{Weighted E} = (0.53 \times 0.00) + (0.78 \times 0.00) + (1.13 \times 0.00) + (2.12 \times 0.08) = 0.09$$

$$\text{V100-360} = (2.00 \times 0.09) / 12.0 = 0.014303 \text{ ac-ft} = 623 \text{ cf}$$

$$\text{V100-1440} = (0.01 \times 0.08) \times 2.75 - 2.35 / 12 = 0.016943 \text{ ac-ft} = 738 \text{ cf}$$

$$\text{V100-10day} = (0.01 \times 0.08) \times 3.95 - 2.35 / 12 = 0.024863 \text{ ac-ft} = 1083 \text{ cf}$$

PROPOSED PEAK DISCHARGE:

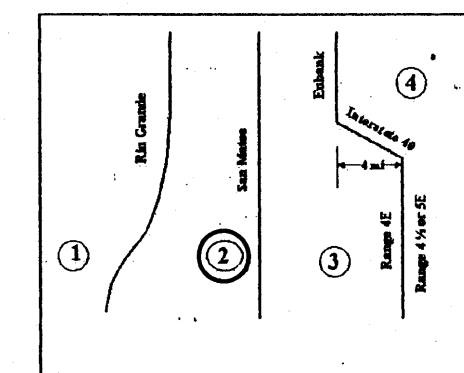
$$Q_{100} = (1.56 \times 0.00) + (2.28 \times 0.00) + (3.14 \times 0.00) + (4.70 \times 0.08) = 0.38$$

A.1 PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

ZONE	LOCATION
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
3	Between San Mateo and Eubank, North of Interstate 40; and between San Mateo and the East boundary of Range 4 East, South of Interstate 40
4	East of Eubank, North of Interstate 40; and East of the East boundary of Range 4 East, South of Interstate 40

Zone	Intensity	100-YR (2-YR, 10-YR)
1	4.70	(1.84, 3.14)
2	5.05	(2.04, 3.41)
3	5.38	(2.21, 3.65)
4	5.61	(2.34, 3.83)



Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundwater and infiltration capacity. Croplands. Unlined Arroyos.
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
C	Soil uncompacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds, and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.

Zone	Treatment	100-YR (2-YR, 10-YR)
1	A	1.29 (0.00, 0.24)
2	B	2.03 (0.33, 0.76)
3	C	2.87 (0.47, 1.49)
4	D	4.37 (1.69, 2.89)

GRADING/PAVING PLAN

THE FOLLOWING ITEMS CONCERNING (3020 PRINCETON DR. N.E.) PORTION OF TRACT "R" MENAUL DEVELOPMENT AREA, BERNALILLO COUNTY, ALBUQUERQUE, NEW MEXICO ARE CONTAINED HEREON:

EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 0.4684 ACRES AND IS LOCATED NORTH OF CANDELARIA RD. N.E. AND EAST OF PRINCETON DR. N.E. THE SITE IS COMPLETELY DEVELOPED WITH AN EXISTING 10,644 SQ. FT. BUILDING ALONG WITH PAVED PARKING AND LANDSCAPED AREAS. ACCORDING TO THE FLOOD INSURANCE RATE MAP, PANEL 0351D, DATED SEPTEMBER 20, 1996, THE SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/PAVING PLAN, THE PROJECT WILL CONSIST OF PULVERIZATION OF THE EXISTING ASPHALT PAVED AREAS. THE EXISTING ASPHALT WILL BE REPLACED WITH NEW ASPHALT ACCORDING TO THE GRADES SHOWN ON THE GRADING/PAVING PLAN. NO INCREASE IN RUN-OFF WILL OCCUR. THE RUN-OFF WILL BE ROUTED OUT THE EXISTING DRIVEPAD. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40-ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME II, DESIGN CRITERIA DATED 1997 HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED.

PROJECT	AREA =	0.47 ac.
NEW MEXICO SCHOOL SUPPLIES		
PRECIPITATION:	360 =	2.35 in.
	1440 =	2.75 in.
	10day =	3.95 in.

EXCESS PRECIPITATION:		PEAK DISCHARGE	
TREATMENT A	0.53 in.	1.56	cfs/ac.
TREATMENT B	0.78 in.	2.28	cfs/ac.
TREATMENT C	1.13 in.	3.14	cfs/ac.
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.		0 ac.
TREATMENT C	0 ac.		0.004 ac.
TREATMENT D	0.46 ac.		0.465 ac.

EXISTING EXCESS PRECIPITATION:

$$\text{Weighted E} = (0.53 \times 0.00) + (0.78 \times 0.00) + (1.13 \times 0.00) + (2.12 \times 0.46) = 0.47$$

$$\text{V100-360} = (2.11 \times 0.47) / 12 = 0.082445 \text{ ac-ft} = 3591 \text{ cf}$$

EXISTING PEAK DISCHARGE:

$$Q_{100} = (1.56 \times 0.00) + (2.28 \times 0.00) + (3.14 \times 0.00) + (4.70 \times 0.46) = 2.20$$

PROPOSED EXCESS PRECIPITATION:

$$\text{Weighted E} = (0.53 \times 0.00) + (0.78 \times 0.00) + (1.13 \times 0.00) + (2.12 \times 0.46) = 0.47$$

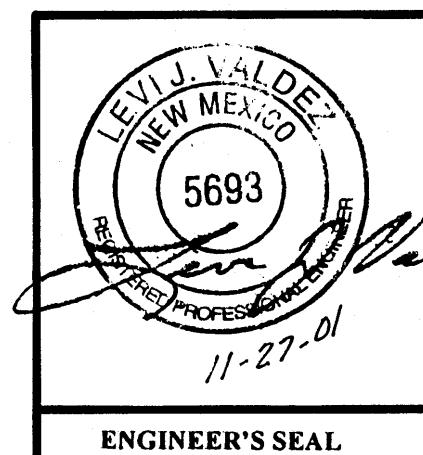
$$\text{V100-360} = (2.11 \times 0.47) / 12.0 = 0.082445 \text{ ac-ft} = 3591 \text{ cf}$$

$$\text{V100-1440} = (0.08 \times 0.46) \times 2.75 - 2.35 / 12 = 0.097935 \text{ ac-ft} = 4286 \text{ cf}$$

$$\text{V100-10day} = (0.08 \times 0.46) \times 3.95 - 2.35 / 12 = 0.144405 \text{ ac-ft} = 6290 \text{ cf}$$

PROPOSED PEAK DISCHARGE:

$$Q_{100} = (1.56 \times 0.00) + (2.28 \times 0.00) + (3.14 \times 0.00) + (4.70 \times 0.46) = 2.20$$



A PROPOSED PAVING PLAN
FOR
3018 PRINCETON N.E.
AND
3020 PRINCETON N.E.
ALBUQUERQUE, NEW MEXICO
NOVEMBER, 2001

Rev'd 11/29/01
See DIS