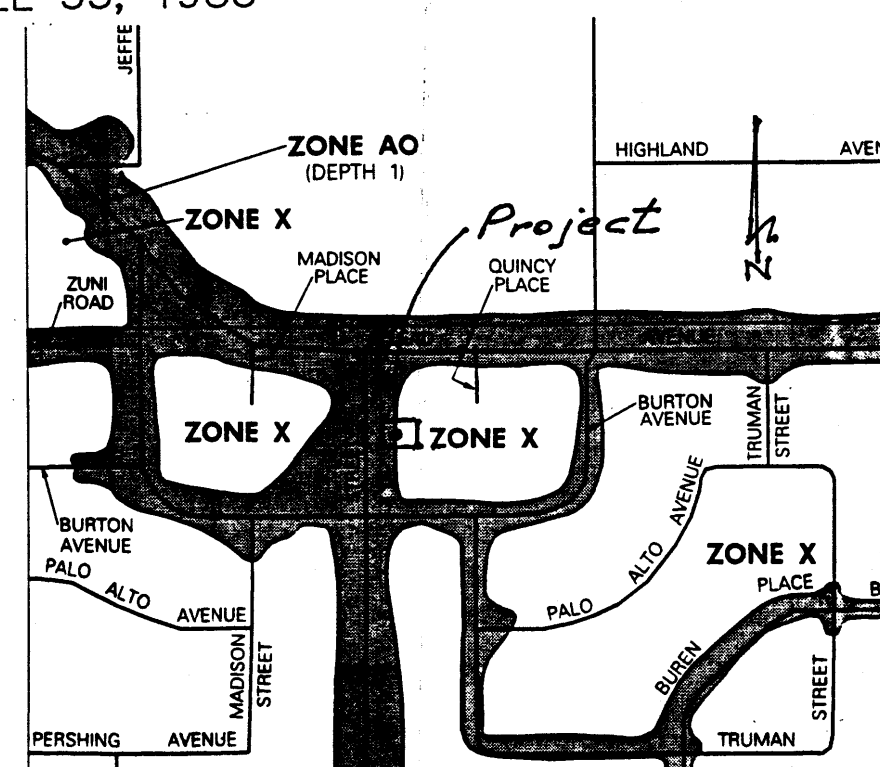


FEMA MAP

SCALE: 1"=500'
REF. PANEL 354, 1996
REF. PANEL 35, 1983



CALCULATIONS

City Hydrology, Ref. File #17/D

I. DESIGN CRITERIA

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY, OF THE DEVELOPMENT PROCESS MANUAL (DPM), REVISED JANUARY 1993 FOR THE CITY OF ALBUQUERQUE AND ADOPTED BY THE COUNTY OF BERNALILLO.
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VOLUMETRIC DISCHARGE: $VOLUME = E_{weighted} \times AREA$
SOIL TYPE: "B", ETC. EMBUDO SERIES, A GRAVELLY FINE SANDY LOAM AS CLASSIFIED BY THE SCS SOIL SURVEY
 $P_{100} = 2.35$ INCHES, ZONE 2 TIME OF CONCENTRATION, $T_C = 10$ MINUTES
DESIGN STORM: 100-year/6-hour, 10-year/6-hour WHERE [] = 10 year VALUES

II. EXISTING CONDITIONS

STUDY AREA = 0.16 ACRES, WHERE EXCESS PRECIPITATION "C" = 1.13 IN. [0.52]
PEAK DISCHARGE, $Q_{100} = 0.50$ CFS [0.3 CFS], WHERE UNIT PEAK DISCHARGE "C" = 3.1 CFS/ACRE [1.7]
THEREFORE: $VOLUME_{100} = 656$ C.F. [302 C.F.]

III. DEVELOPED CONDITIONS

DETERMINE LAND TREATMENTS, PEAK DISCHARGE & WEIGHTED EXCESS PRECIPITATION

AREA	LAND TREATMENT	UNIT PEAK DISCHARGE	"C"
UNDEVELOPED, 0 AC (0%)	A	1.56 [0.36]	0.53 [0.13]
LANDSCAPING, 0.01 AC (0%)	B	2.28 [0.95]	0.78 [0.28]
GRAVEL & COMPACTED SOIL, 0.02 AC (13%)	C	3.14 [1.71]	1.13 [0.52]
ROOF/PAVEMENT, 0.13 AC (83%)	D	4.70 [3.14]	2.12 [1.34]
0.16 ACRES			

$E_{weighted} = 1.9$ IN. [1.2]
 $Q_{100} = 0.70$ CUBIC FEET PER SECOND (CFS) $Q_{10} = 0.45$ CFS; $VOL_{100} = 1103$ CUBIC FEET (CF),
 $VOL_{10} = 680$ C.F.

GRADING & DRAINAGE PLAN

SITE DATA: THE EXISTING SITE IS CURRENTLY A "HARD PAN" DIRT UNDEVELOPED LOT, AND ZONED, C-1, FOR COMMERCIAL USE. THE PROJECT IS LOCATED IN AN IN-FILL AREA AND ALL ADJOINING PROPERTY IS DEVELOPED. MONROE STREET IS LOCATED ON THE WEST AND IS CLASSIFIED AS A MINOR COLLECTOR WITH CURB/GUTTER AND SIDEWALK. THE ROADWAY IS 40 FEET WIDE AND SITUATED WITHIN A 60' RIGHT-OF-WAY. AN EXISTING 25 FEET WIDE GRAVEL SURFACED ALLEY IS THE EAST ADJOINER.

EXISTING DRAINAGE CONDITIONS: HISTORIC RUN-OFF HAS ESSENTIALLY SHEET FLOWED ACROSS THE SITE WITH A PORTION EXITING TO THE WEST AND THE REMAINING DRAINING TO THE EAST ALLEY. THE PROPERTY IS IMPACTED BY A FEMA DESIGNATED FLOODPLAIN (ZONE AO 1'). THE FLOOD PLAIN IS WITHIN MONROE STREET AND EXTENDS INTO THE PROPERTY APPROXIMATELY 35 FEET.

NOTE: NO OFF-SITE DRAINAGE IMPACTS THE SITE.

PROPOSED IMPROVEMENTS: CONSIST OF A 2646 S.F., SINGLE STORY COMMERCIAL BUILDING, ASPHALT PAVING, CONCRETE DRIVEWAY ENTRANCE, GRAVEL SURFACING, AND NATIVE VEGETATION LANDSCAPING AREAS. THE EXISTING GRAVEL ALLEY WILL BE CONSTRUCTED TO CITY STANDARDS AND BE PAVED.

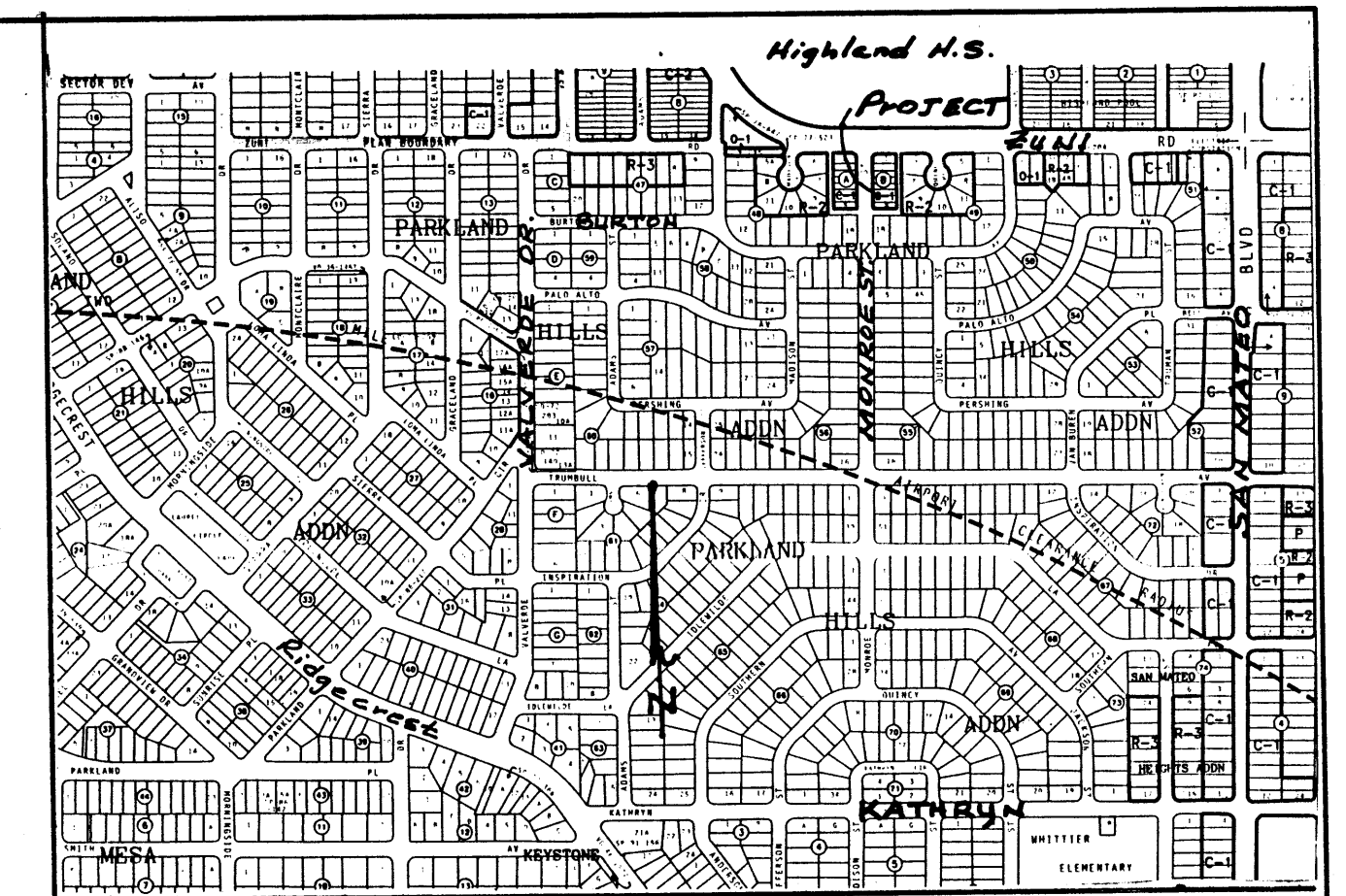
PROPOSED DRAINAGE CONDITIONS: DISCHARGE OF RUN-OFF THROUGH THE PROPOSED DRIVEPAD, IN ADDITION TO ROUTING ROOF & REAR LOT RUNOFF TO THE PROPOSED PAVED ALLEY. FREE DISCHARGE OF SITE RUNOFF IS ALLOWED SINCE THE INCREASE OF DEVELOPED FLOW IS MINIMAL.

LEGEND

EXIST. SPOT ELEV. +92.5
EXIST. CONTOUR 08
NEW SPOT ELEV. 10.10
NEW CONTOUR 10
NEW CONCRETE

TOP OF CURB TC, tc
FLOW LINE FL, fl

EXIST. POWER POLE P.P. o
SWALE
DRAINAGE FLOW



VICINITY MAP ZONE L-17

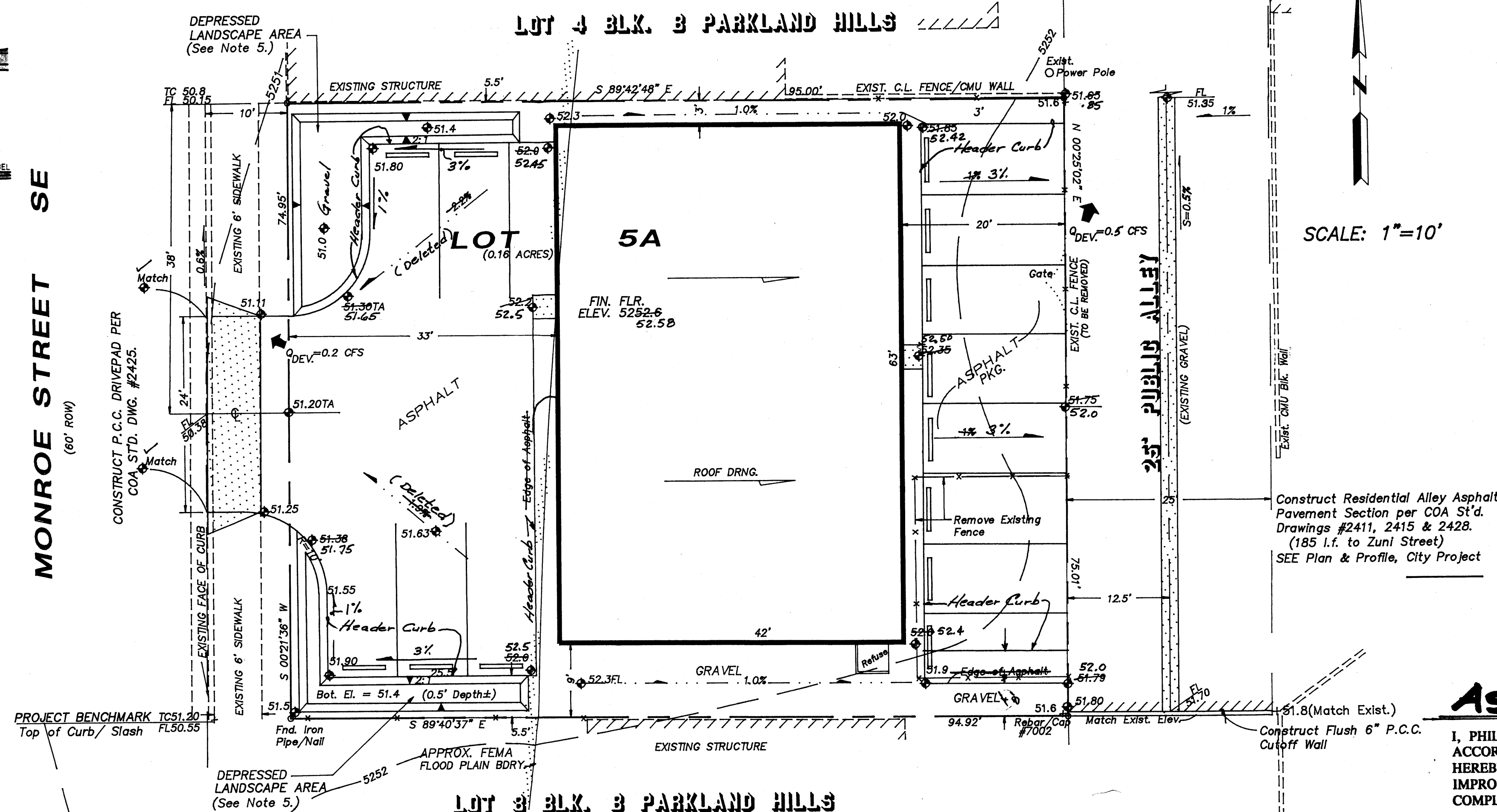
SCALE: 1"=750'

NOTES:

All Work Within the Right-of-Way Shall Be Constructed In Accordance With the City of Albuquerque Standard Specs. For Public Works Construction, Latest Edition.

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2. ALL WORK PERFORMED ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
3. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
4. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF PAVING.
5. FRONT YARD DEPRESSED LANDSCAPED AREAS SHALL BE SOFT-LINED WITH NATIVE VEGETATION AND/OR GRAVEL. NO DEVELOPED RUNOFF PERMITTED TO DRAIN TO THESE AREAS. ASPHALT PARKING AREA SHALL DRAIN DIRECTLY TO MONROE ST.
6. CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAY DURING CONSTRUCTION

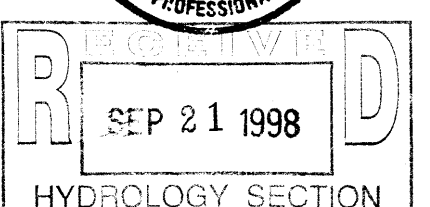
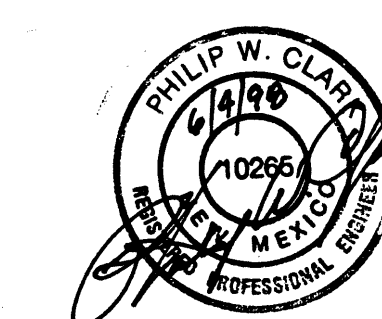
SCALE: 1"=10'



As Constructed

I, PHILIP W. CLARK, PROFESSIONAL ENGINEER, REGISTERED IN ACCORDANCE WITH THE LAWS IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE GRADING AND DRAINAGE IMPROVEMENTS SHOWN ON THIS PLAN ARE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN.

PHILIP W. CLARK, P.E. #10265



PROJECT INFORMATION

LEGAL DESCRIPTION: LOTS 5, 6 & 7, BLOCK B, PARKLAND HILLS IN CITY OF ALBUQUERQUE, NEW MEXICO BERNALILLO COUNTY

PROPERTY ADDRESS: MONROE STREET, Southeast ALBUQUERQUE, NM 87108

PROJECT BENCHMARK: TOP OF CURB OF THE PROJECTION OF THE SOUTHWEST PROPERTY CORNER, AS TIED FROM ACS ALLUM. CAP MARKED 13-L17 SET IN DRILL HOLE FLUSH WITH THE TOP OF CURB LOCATED AT THE EAST, SOUTHEAST CURB RETURN AT MADISON PLACE AND ZUNI RD.

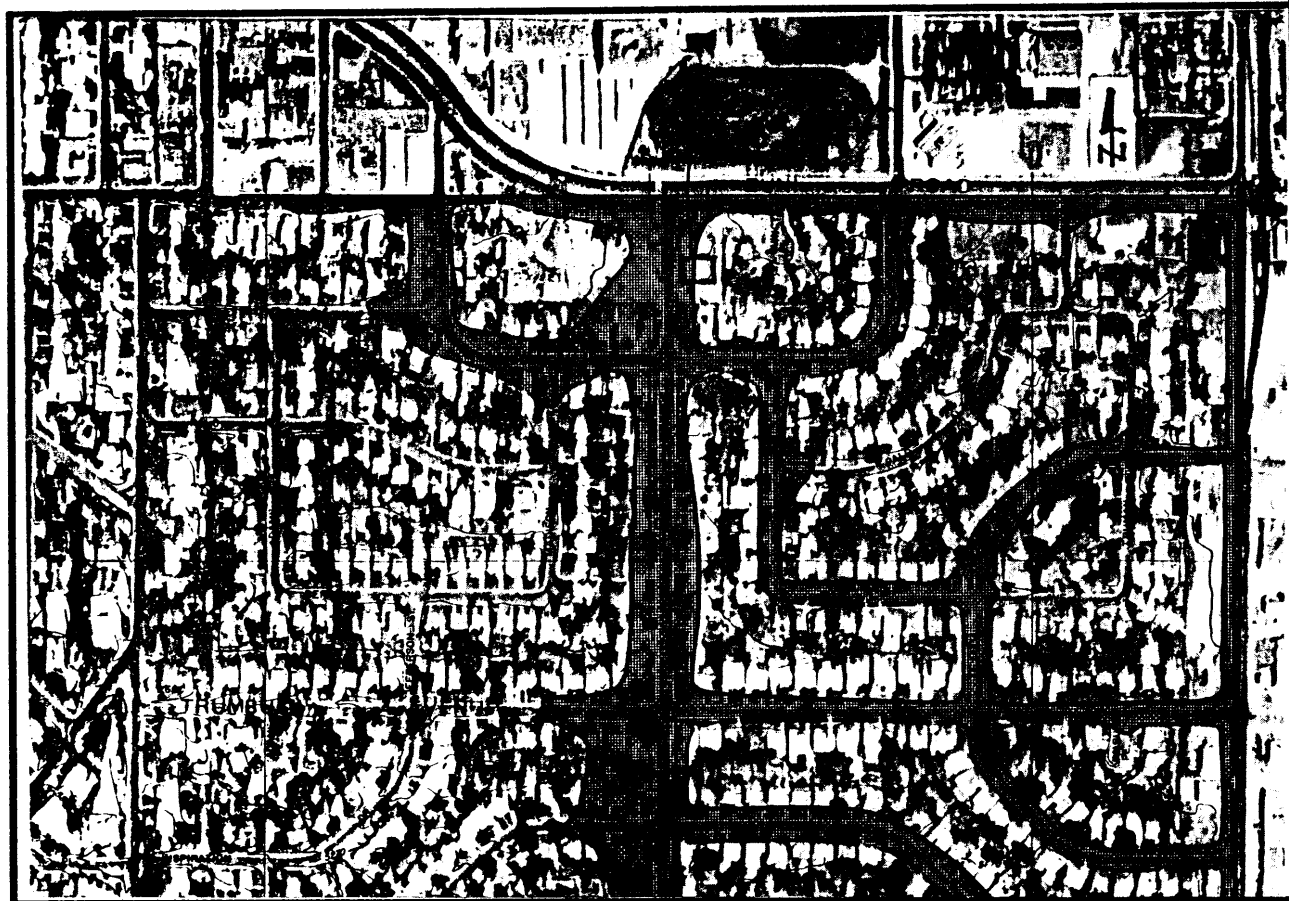
I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE SHOWN HEREON, AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO EARTHWORK OF ANY KIND, NOR ANY DISTURBANCE OF THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

PHILIP W. CLARK, NMPE #10265

Clark Consulting Engineers
19 Ryan Road Edgewood, New Mexico 87015
(505) 281-2444 FAX (505) 281-2444

DATE	REVISION	LOT 5-A, BLOCK B, PARKLAND HILLS
6/9/98	Revised P&ID	STELLA BLANCO - THE SHADY LADY STORE
	Added P&ID	
	Added P&ID	
	Added P&ID	
	Added P&ID	
DESIGNED BY: PWC	DRAWN BY: CCE	JOB No: PLMPT_STD
CHECKED BY: PWC	DATE: 3/27/98	FILE No: G/D

SHEET No. 1 of 1



FEMA MAP

SCALE: 1"=500'
REF. PANEL 354, 1996
REF. PANEL 35, 1983

CALCULATIONS

City Hydrology, Ref. File #L-17/D

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P100 = 2.35 INCHES, ZONE 2
DESIGN STORM: 100-year/6-hour, 10-year/6-hour WHERE $[] = 10$ YEAR VALUES

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THEREFORE: $VOLUME_{100} = 656$ C.F. [302 C.F.]

III. DEVELOPED CONDITIONS

DETERMINE LAND TREATMENTS, PEAK DISCHARGE & WEIGHTED EXCESS PRECIPITATION

	AREA	LAND TREATMENT	UNIT PEAK DISCHARGE	'C'
UNDEVELOPED,	0 AC (0%)	A	1.56 [0.38]	0.53 [0.13]
LANDSCAPING,	0.02 AC (1.3%)	B	2.28 [0.95]	0.78 [0.28]
GRAVEL & COMPACTED SOIL	0.04 AC (24%)	C	3.14 [1.71]	1.13 [0.52]
ROOF/PAVEMENT,	0.10 AC (63%)	D	4.70 [3.14]	2.12 [1.34]
	0.16 ACRES			

$Q_{weighted} = 1.7$ IN. [1.0]
 $Q_{100} = 0.64$ CUBIC FEET PER SECOND (CFS) $Q_{100} = 0.4$ CFS; $VOL_{100} = 987$ CUBIC FEET (CF),
 $VOL_{10} = 580$ C.F.

IV. DETENTION POND DESIGN

(SEE SUPPLEMENTAL CALCULATIONS ON FILE WITH CITY HYDROLOGY, L-17/D)

you provide this info

*Ex. 5
G. 60*

GRADING & DRAINAGE PLAN

SITE DATA: THE EXISTING SITE IS CURRENTLY A "HARD PAN" DIRT UNDEVELOPED LOT, AND ZONED C-1, FOR COMMERCIAL USE. THE PROJECT IS LOCATED IN AN IN-FILL AREA AND ALL ADJOINING PROPERTY IS DEVELOPED. MONROE STREET IS LOCATED ON THE WEST AND IS CLASSIFIED AS AN MINOR COLLECTOR WITH CURB/GUTTER AND SIDEWALK. THE ROADWAY IS 40 FEET WIDE AND SITUATED WITHIN A 60' RIGHT-OF-WAY. AN EXISTING 25 FEET WIDE GRAVEL SURFACED ALLEY IS THE EAST ADJOINER.

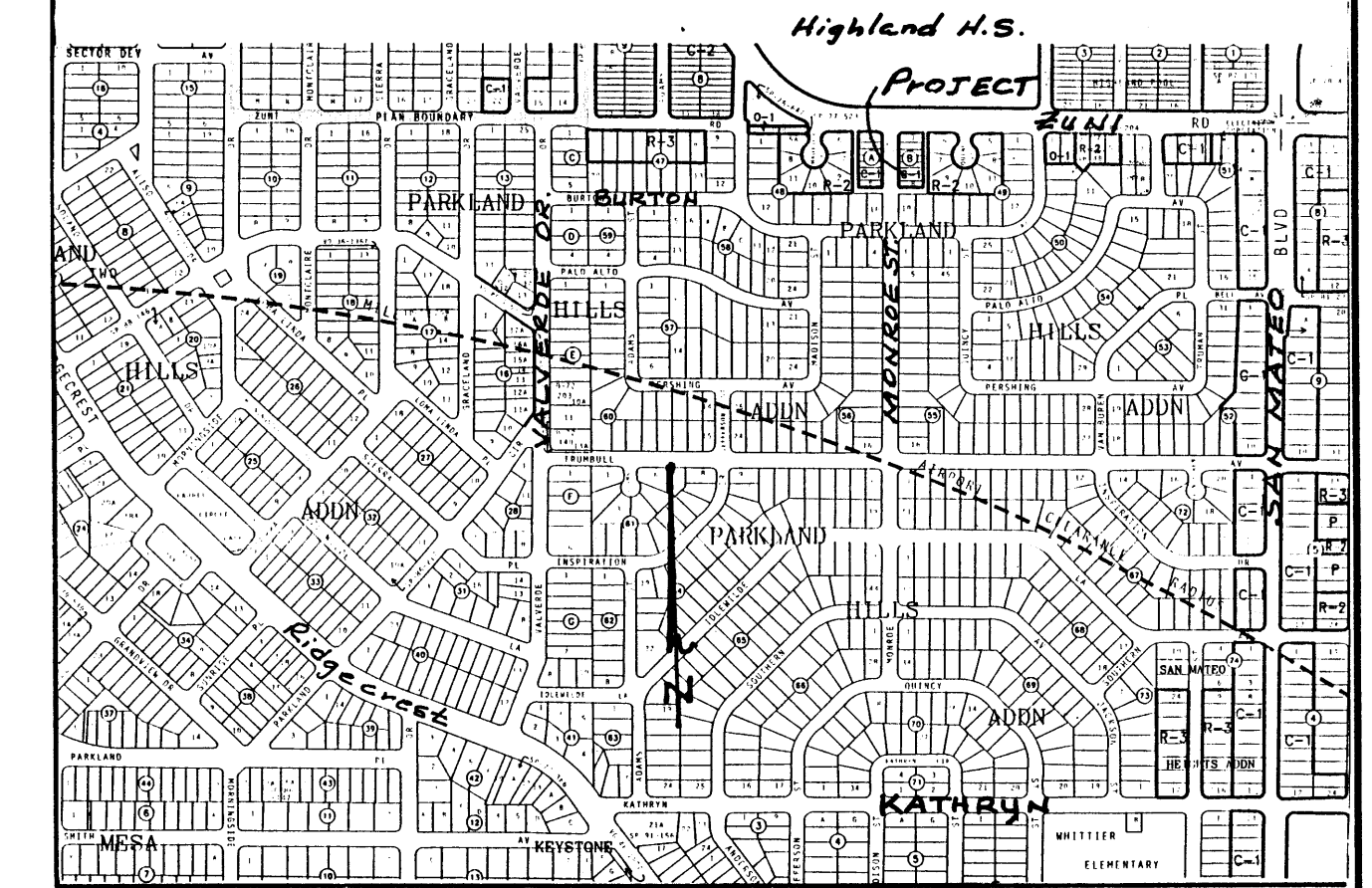
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PROPOSED IMPROVEMENTS: CONSIST OF A 2646 S.F., SINGLE STORY COMMERCIAL BUILDING, ASPHALT PAVING, CONCRETE DRIVEWAY ENTRANCE, GRAVEL SURFACING, AND NATIVE VEGETATION LANDSCAPING AREAS.

PROPOSED DRAINAGE CONDITIONS: DISCHARGE OF RUN-OFF THROUGH THE PROPOSED DRIVEPAD, IN ADDITION TO ROUTING EXCESS, DEVELOPED RUNOFF TO DEPRESSED LANDSCAPING AREAS.

LEGEND

EXIST. SPOT ELEV. +92.5
EXIST. CONTOUR 08
NEW SPOT ELEV. 10.10
NEW CONTOUR 10
NEW CONCRETE
TOP OF CURB TC, to
FLOW LINE FL, to
EXIST. POWER POLE P.P. o
SWALE
DRAINAGE FLOW
APPROX FEMA FLOOD PLAIN B'DRY



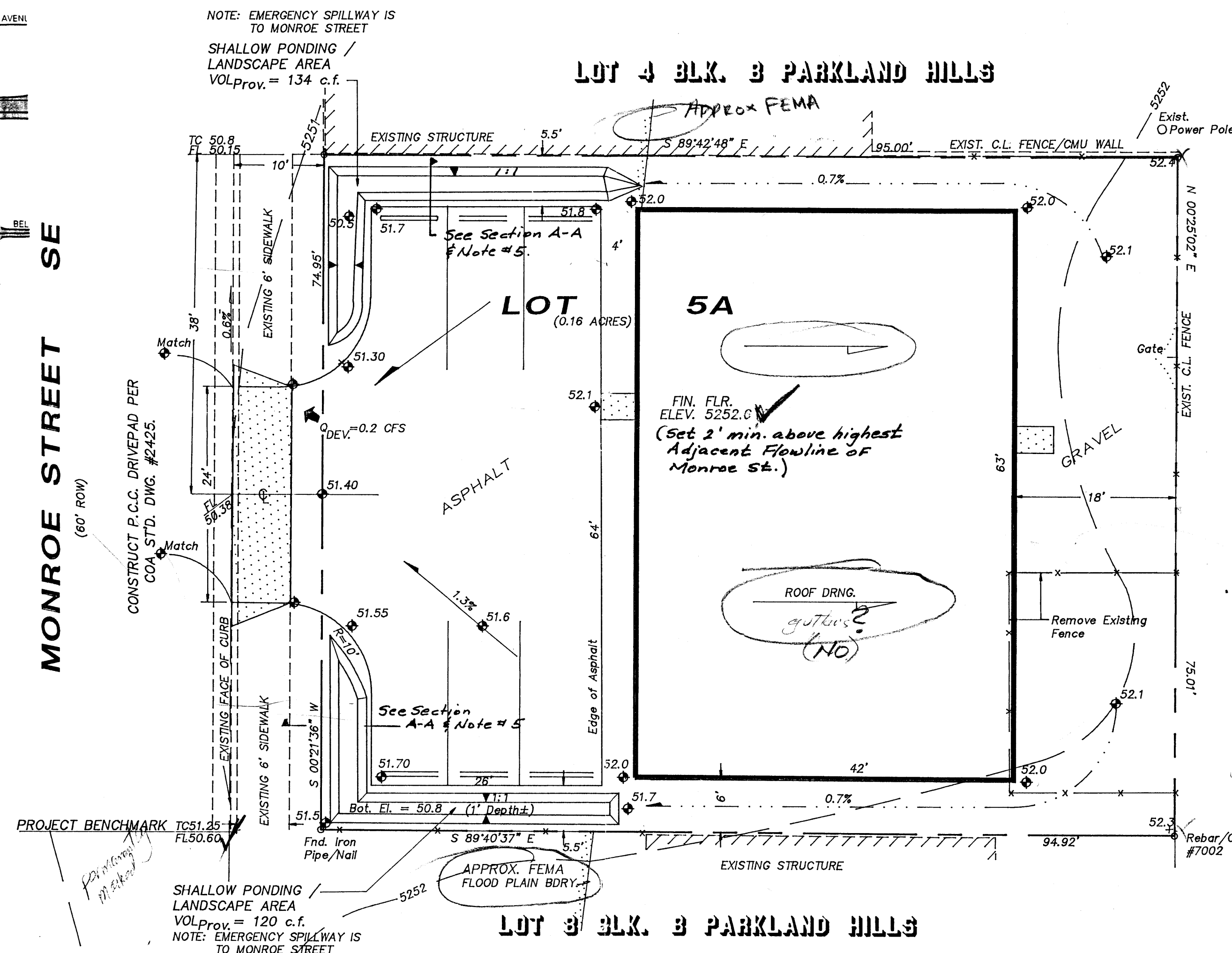
VICINITY MAP ZONE L-17

SCALE: 1"=750'

NOTES:

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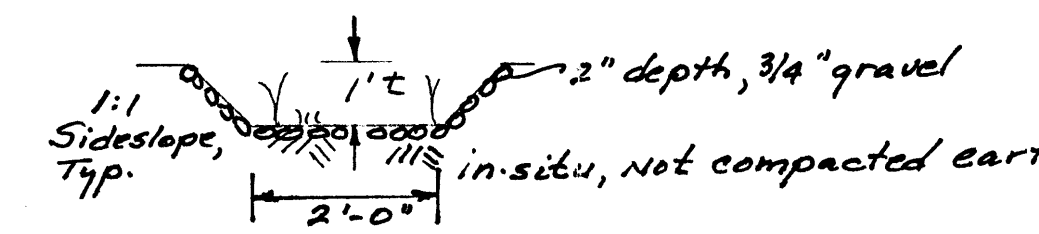
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- FRONT YARD PONDING AREAS SHALL BE SOFT-LINED WITH NATIVE VEGETATION AND/OR GRAVEL. NO MIL PLASTIC WILL BE PERMITTED, IN ORDER TO ENSURE PERVIOUS NATURE AND DESIGN INTENT TO ALLOW PERCOLATION OF RUNOFF.
- CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAY DURING CONSTRUCTION



SCALE: 1"=10'

25' PUBLIC ALLEY (EXISTING GRAVEL)

existing flows off-site show brown map (alley) (GADP) (proposed)



SECTION A-A
no scale

PROJECT INFORMATION

LEGAL DESCRIPTION: LOTS 5, 6 & 7, BLOCK 3, PARKLAND HILLS IN CITY OF ALBUQUERQUE, NEW MEXICO BERNALILLO COUNTY

PROPERTY ADDRESS: MONROE STREET, Southeast ALBUQUERQUE, NM 87108

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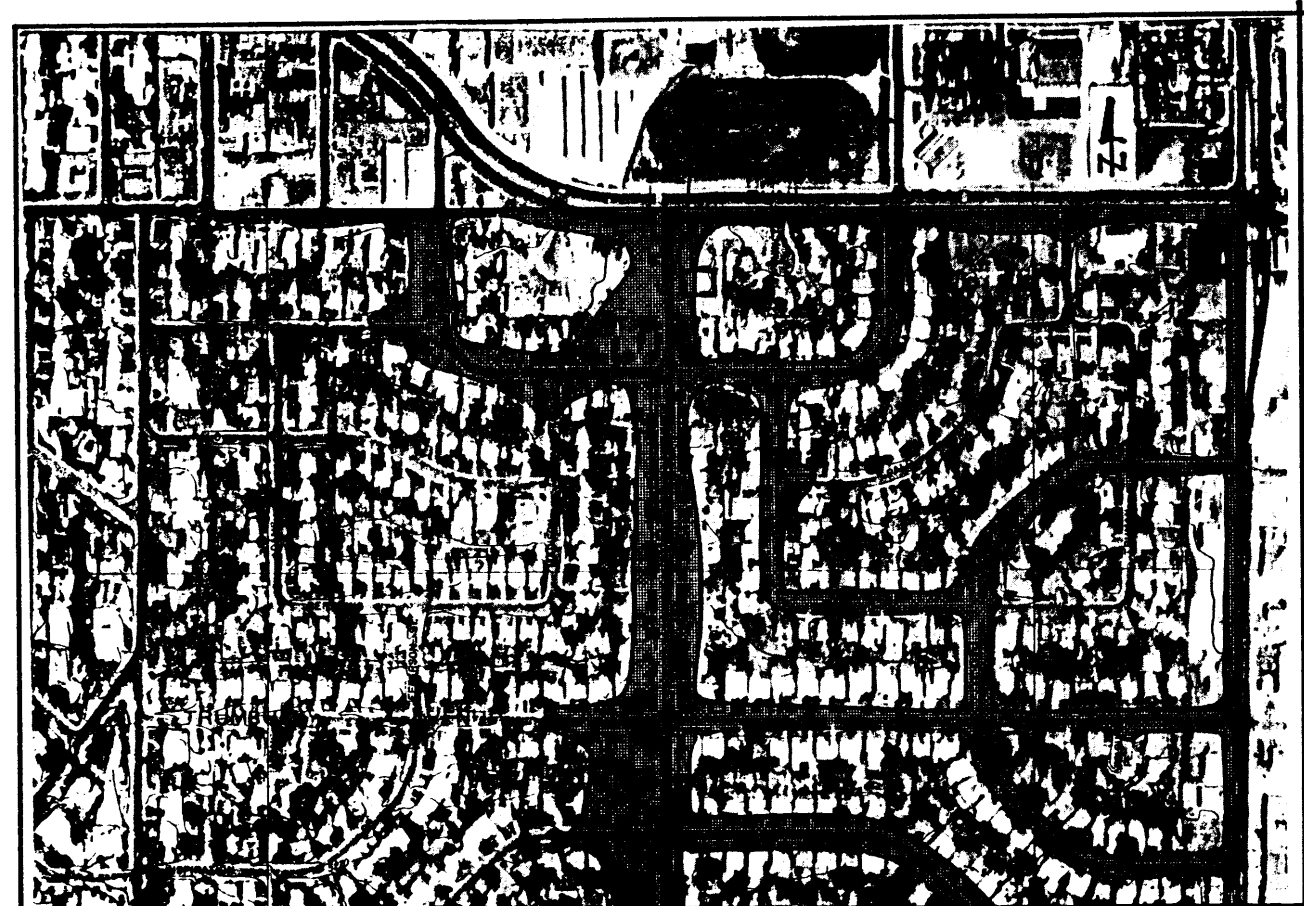
PHILIP W. CLARK
PE #10265

Clark Consulting Engineers
19 Ryan Road Edgewood, New Mexico 87015
(505) 281-2444 FAX (505) 281-2444

DATE	REVISION	LOT 5-A, BLOCK 3, PARKLAND HILLS STELLA BLANCO - THE SHADY LADY STORE
DESIGNED BY: PWC	DRAWN BY: CCE	JOB No: PLIMPT_STO
CHECKED BY: PWC	DATE: 3/17/98	FILE No: G/D

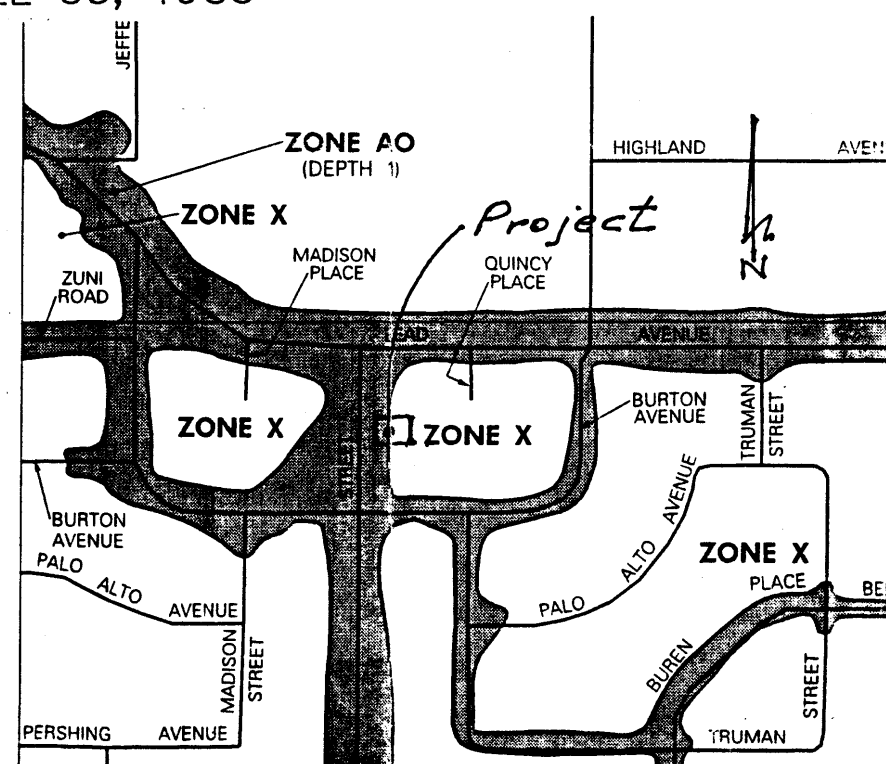
Grading & Drainage Plan

SHEET No.
1 of 1



FEMA MAP

SCALE: 1"=500'
REF. PANEL 354, 1996
REF. PANEL 35, 1983



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City Hydrology, Ref. File #L-17/D

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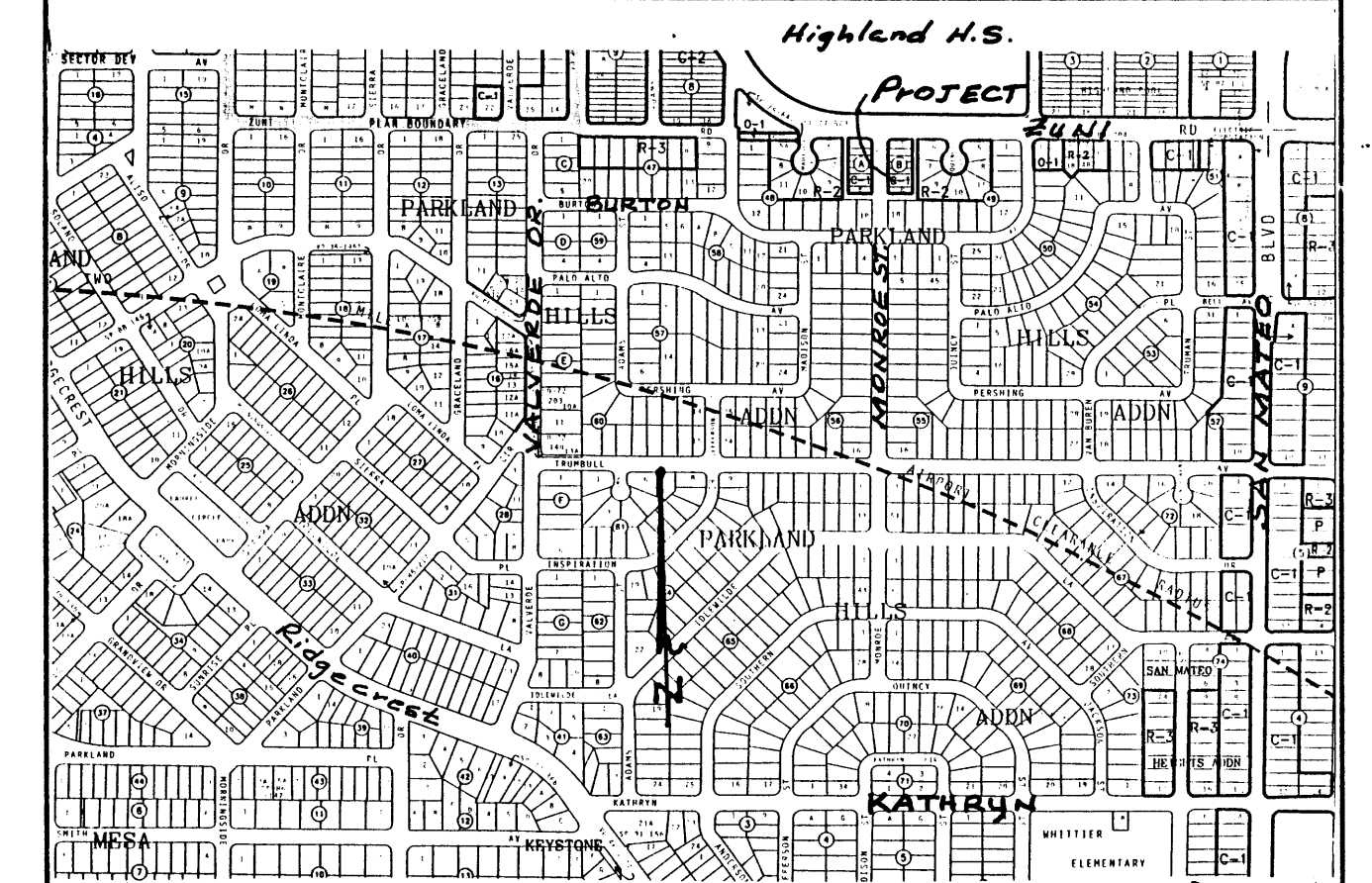
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NEW SPOT ELEV.	10.10
NEW CONTOUR	10
NEW CONCRETE	
TOP OF CURB	TC, tc
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VICINITY MAP ZONE L-17

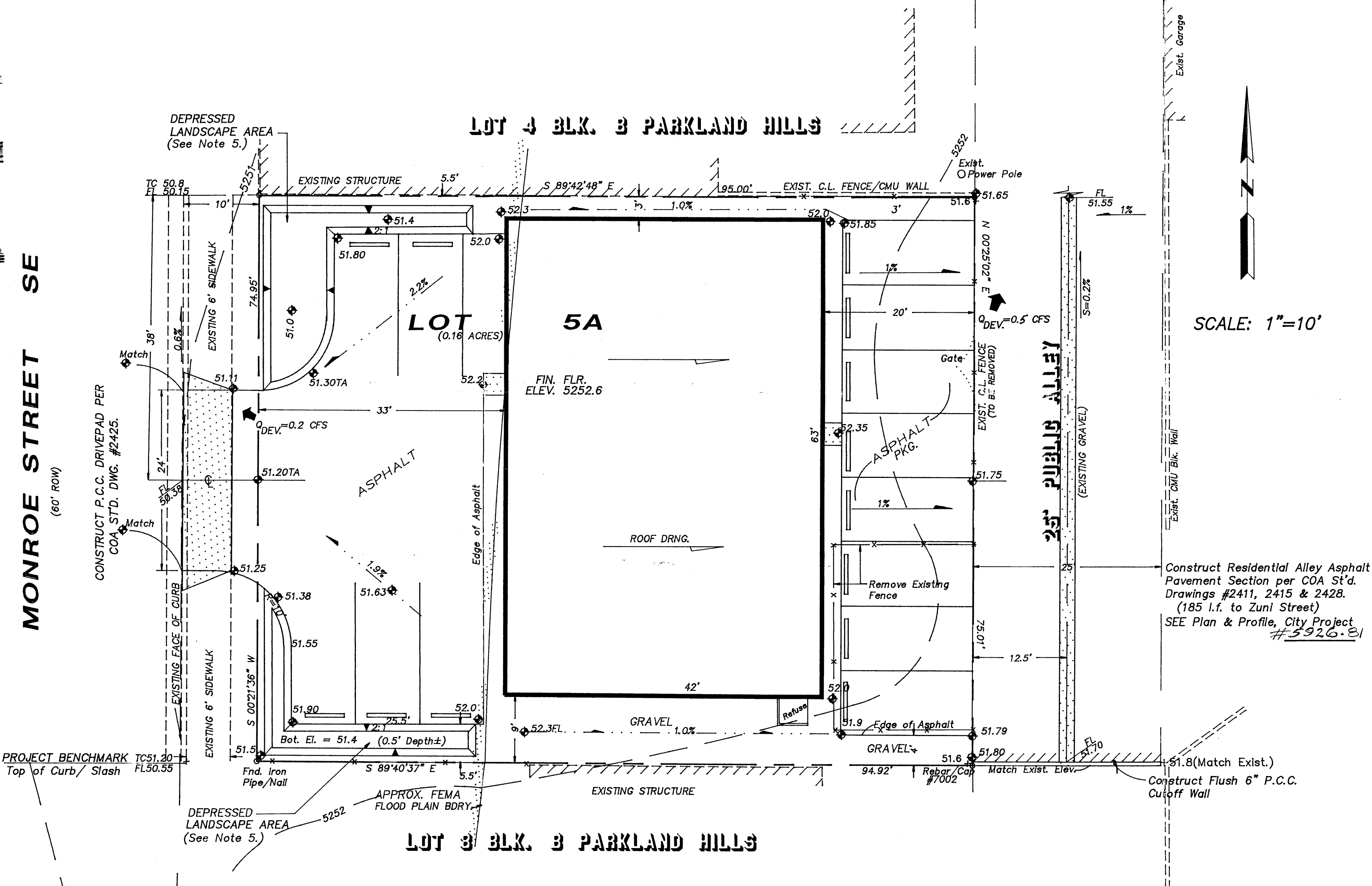
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PHILIP W. CLARK
NMPE #10265

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19 Ryan Road Edgewood, New Mexico 87015
(505) 281-2444 FAX (505) 281-2444

DATE: 6/4/98 REVISION: 10265 LOT 5-A, BLOCK B, PARKLAND HILLS STELLA BLANCO - THE SHADY LADY STORE

Grading & Drainage Plan

DESIGNED BY: PWC DRAWN BY: CDE JOB No: PLIMPT STD SHEET No: 1 of 1
CHECKED BY: PWC DATE: 3/17/98 FILE No: G/D