

N.T.S. J-14-Z
LOCATION MAP

LEGEND

8" SS	EXISTING 8" SANITARY SEWER
8" W	EXISTING 8" WATERLINE
6" W	EXISTING 6" WATERLINE
12" S	EXISTING 12" STORM SEWER
10" S	EXISTING 10" STORM SEWER
57.5	EXISTING CONTOUR LINE
57.5	PROPOSED CONTOUR LINE
TC 57.48 FL 56.87	EXISTING ELEVATION TOP OF CURB & FLOW LINE
PH	EXISTING FIRE HYDRANT
57.69	EXISTING SPOT ELEVATION
TA 57.62	PROPOSED ELEVATION, TOP OF ASPHALT
TS 57.62	PROPOSED ELEVATION, TOP OF SIDEWALK
TD 57.83	PROPOSED ELEVATION, TOP OF DRIVEPAD
TG 45.00	LANDSCAPED AREA
PROPOSED ELEVATION, TOP OF GATE	
MANHOLE	EXISTING MANHOLE
DS	EXISTING DOWNSPOUT
P.P.O.	EXISTING POWER POLE

BENCHMARK: ACS MON. 23-J-14 ELEVATION 4957.94 (MSLD 1929)

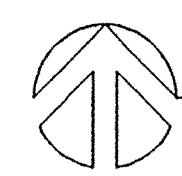
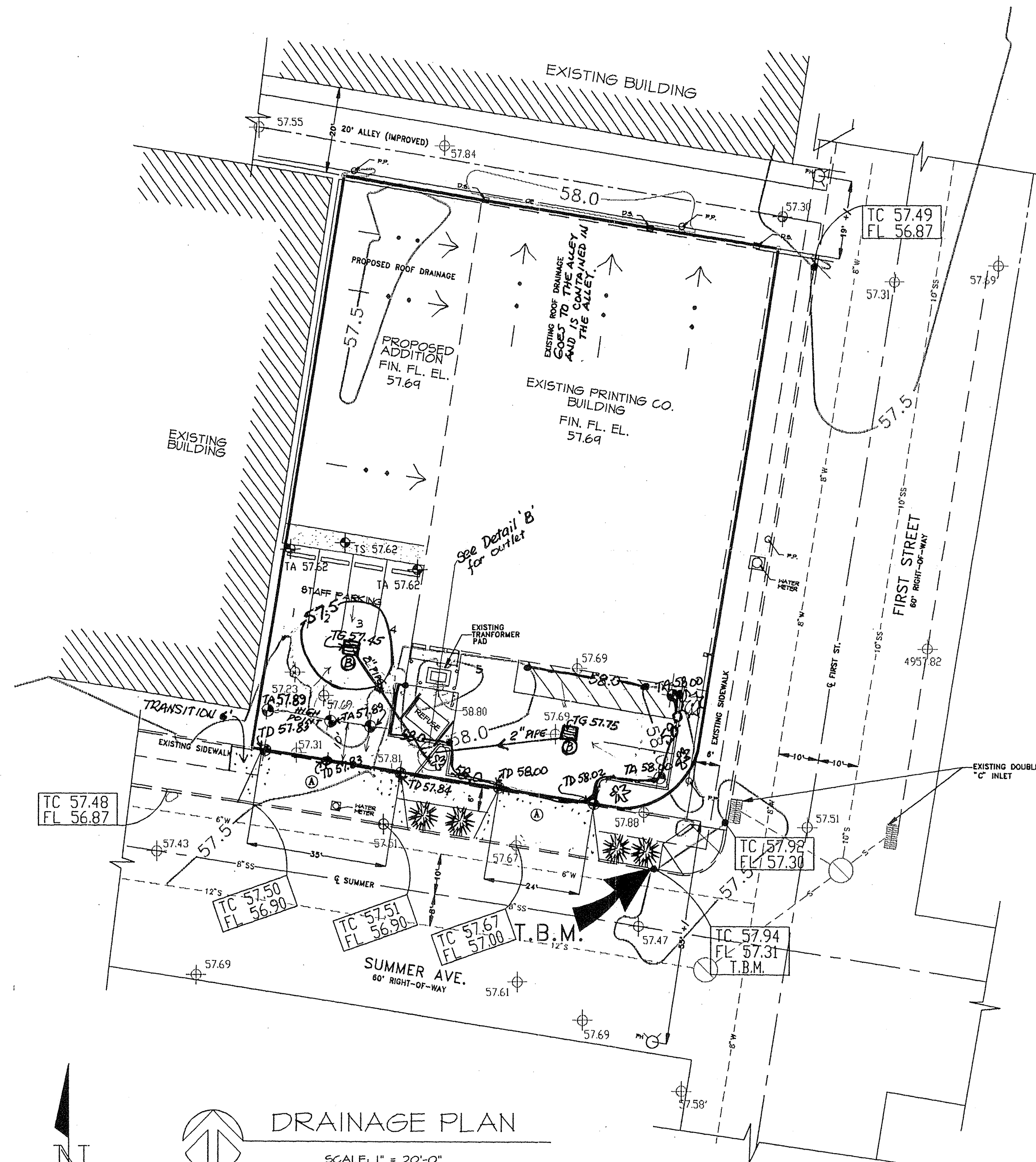
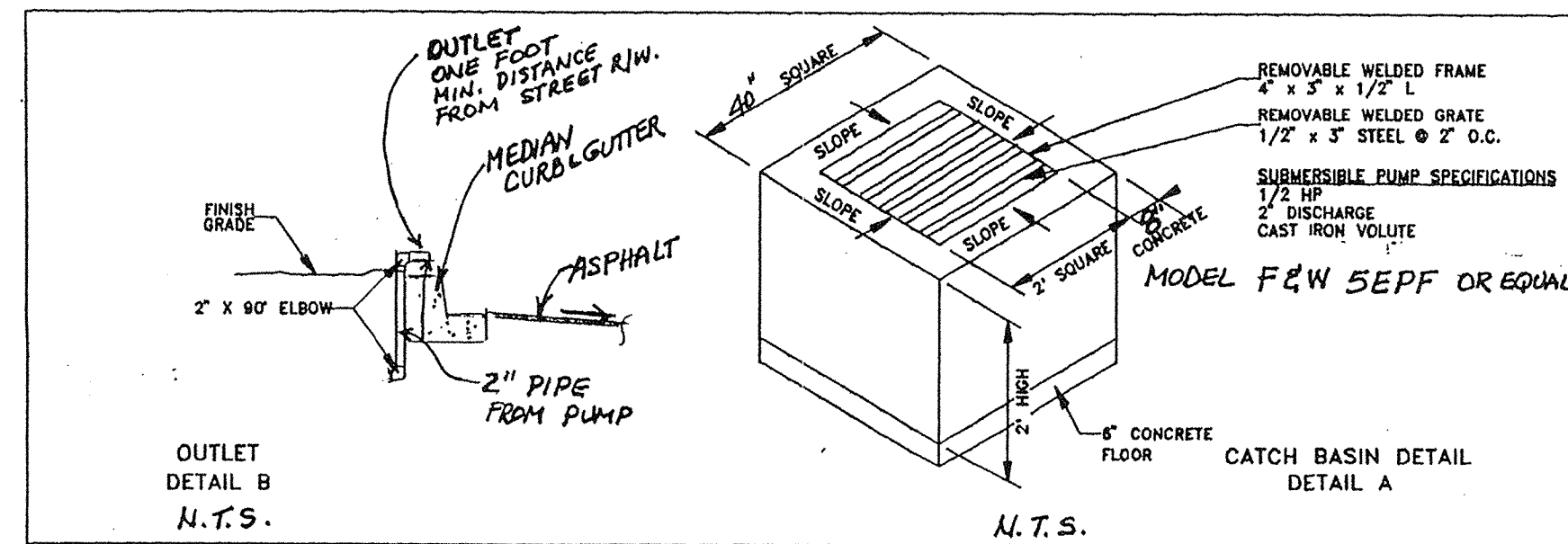
I.B.M.: WEST END, NORTHWEST CURB RETURN
TOP OF CURB ELEVATION 57.94

NOTE:

- THIS IS NOT A BOUNDARY SURVEY. PROPERTY CORNERS, BEARINGS AND DISTANCES SHOWN HEREON ARE FOR ORIENTATION PURPOSES ONLY.
- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON MAPS AND/OR EVIDENCES ON THE GROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL UTILITIES, SHOWN OR NOT SHOWN ON THIS DRAWING, PRIOR TO ANY EXCAVATIONS.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING RUN-OFF ON SITE DURING CONSTRUCTION AND CLEANING UP SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY AND ADJOINING PROPERTIES AFTER CONSTRUCTION.
- MEDIAN CURB AND GUTTER PER CITY STANDARD DRAWING #2415.

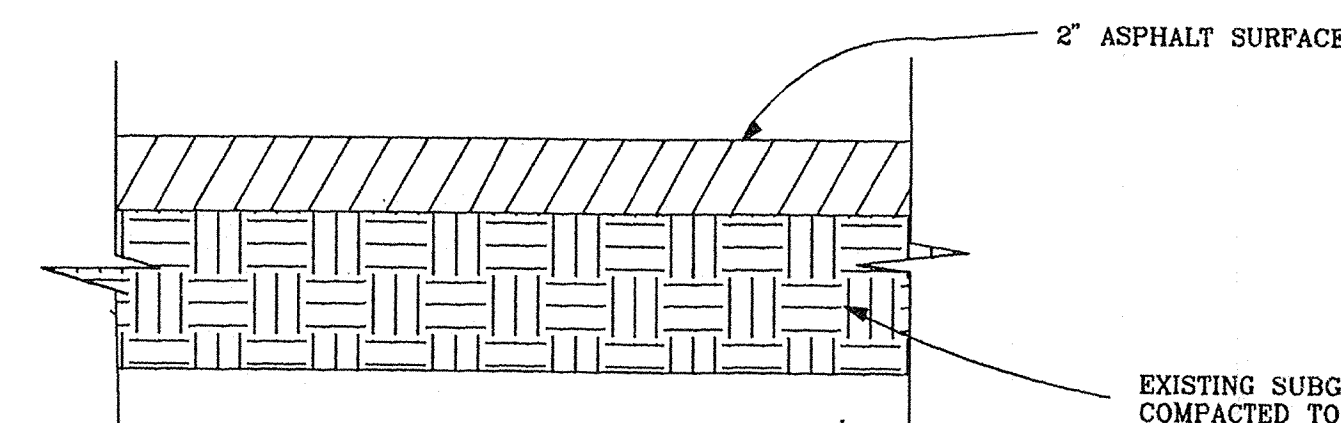
CONSTRUCTION NOTE:

- BUILD STANDARD DRIVEPAD.
- BUILD CATCH BASIN, PER DETAIL A, THIS SHEET.
INSTALL SUMP PUMP, SEE SPECS, THIS SHEET.



DRAINAGE PLAN

SCALE: 1" = 20'-0"



PROPOSED ASPHALT PAVEMENT
N.T.S.

Van Guard Printing Co. DRAINAGE AND GRADING PLAN

PROPOSED IMPROVEMENTS AT VANGUARD PRINTING, 101 SUMMER AVE. NW

LEGAL DESCRIPTION: LOT 24-A, BLOCK 13 PARIS ADDITION

ADDRESS: 101 Summer Avenue NW, Albuquerque, NM

FLOODPLAIN INFORMATION: The property is located on Zone X, areas determined to be outside 500-year floodplain, according to the Floodway Boundary and Floodway Map of Bernalillo County, New Mexico, and incorporated Areas, Map Number 35001C0332, effective September 20, 1996.

EXISTING CONDITIONS: The area proposed for development consists of existing buildings surrounded by concrete pavement and no landscaping. The lot is bounded on the north by a paved alley, on the east and south by Improved Summer Avenue and First Street, and on the west by an Improved lot. The roof of the existing building drains to the alley. The area in front of the existing building drains to Summer Avenue. The lot of the existing house which is lower than the lot of the existing building has no positive drainage to the street nor to the alley. The lot receives no offsite runoff.

PROPOSED IMPROVEMENTS: The existing 2500 square feet house will be demolished and a 2975 square feet addition to the existing building will be built at the same finished floor elevation as the building. The roof of the addition will be directed to the roof of the old building and eventually to downspouts that drain toward the paved alley. The net increase in roof area is 475 square feet which will add a negligible 0.05 cfs to the flow on the alley. The surface runoff on the parking lot will drain to two catch basins where the water will be pumped to 2" underground pipes that will be daylighted at a landscape area and directed to the pavement where it slopes toward the driveway.

EROSION CONTROL: Water, if any, from activities during construction and/or from rain will be temporarily ponded on site to prevent the spread of silt.

CALCULATIONS:

Existing Conditions:

Land Treatment A =	0
Land Treatment B =	0
Land Treatment C =	3,292 SF = 0.07 Acre
Land Treatment D =	12,116 SF = 0.28 Acre
TOTAL	= 0.35 Acre

Proposed Improvement:

Land Treatment A =	0
Land Treatment B =	0
Land Treatment C =	525 SF = 0.01 Acre
Land Treatment D =	14,100 SF = 0.34 Acre
TOTAL	= 0.35 Acre

Zone 2 (From DPM 22.2, page A-1)

Existing Condition,

Peak Discharge, 100-year: C = 3.14, D = 4.70 (DPM 22.2, A-9)
 $Q_{100} = 0.07 \times 3.14 = 0.22 \text{ cfs}$
 $0.28 \times 4.70 = 1.32 \text{ cfs}$
 composite = 1.54 cfs

Volume of Runoff, Excess Precipitation
 100-year: C = 1.13, D = 2.12 (from DPM 22.2, A-7)

$V_{100} = 0.07 \times 1.13 \times 43560/12 = 287 \text{ cf}$
 $= 0.28 \times 2.12 \times 43560/12 = 2,155 \text{ cf}$
 composite = 2,442 cf

Proposed Improvement:

Peak Discharge, 100-year
 Land Treatment C, 100-year: 3.14 cfs
 Land Treatment D, 100-year: 4.70 cfs

$Q(100\text{-year}) = 0.01 \times 3.14 = 0.03 \text{ cfs}$
 $0.34 \times 4.70 = 1.60 \text{ cfs}$
 composite = 1.63 cfs

Volume of Runoff, 100-year:

Excess Precipitation, Land Treatment C
 100-year: 1.13 Inch
 Excess Precipitation, Land Treatment D
 100-year: 2.12 Inches

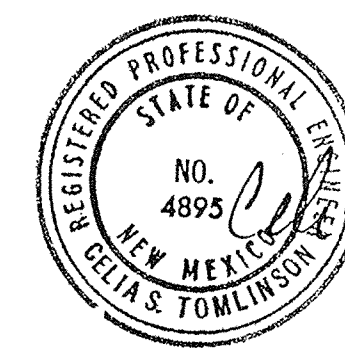
$V(100\text{-year}) = C = 0.01 \times 1.13 \times 43,560/12 = 41 \text{ cfs}$
 $D = 0.34 \times 2.12 \times 43,560/12 = 2,616 \text{ cfs}$
TOTAL = 2,657 cfs

Change in Discharge, $Q_{100} = 1.63 - 1.54 = 0.09 \text{ cfs}$ (increase)
 0.05 cfs goes to the alley.
 Change in Runoff Volume, $V_{100} = 2,657 - 2,442 = 215 \text{ cf}$ (increase)

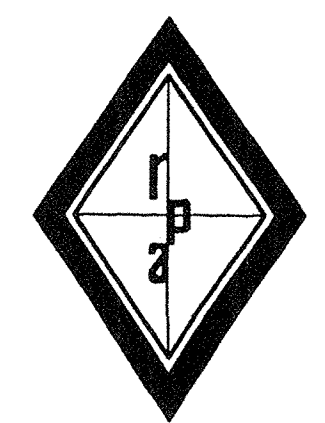
Since the proposed addition is replacing an existing structure in a developed basin, the proposed grading has been designed to allow for free discharge to the improved city system such as Summer Avenue or the paved alley behind the existing building.

CONCLUSION: The proposed improvements will not have any adverse impact on nor will be adversely affected by the existing drainage around the Vanguard Printing property.

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J. P. Fowler 5/13/97



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