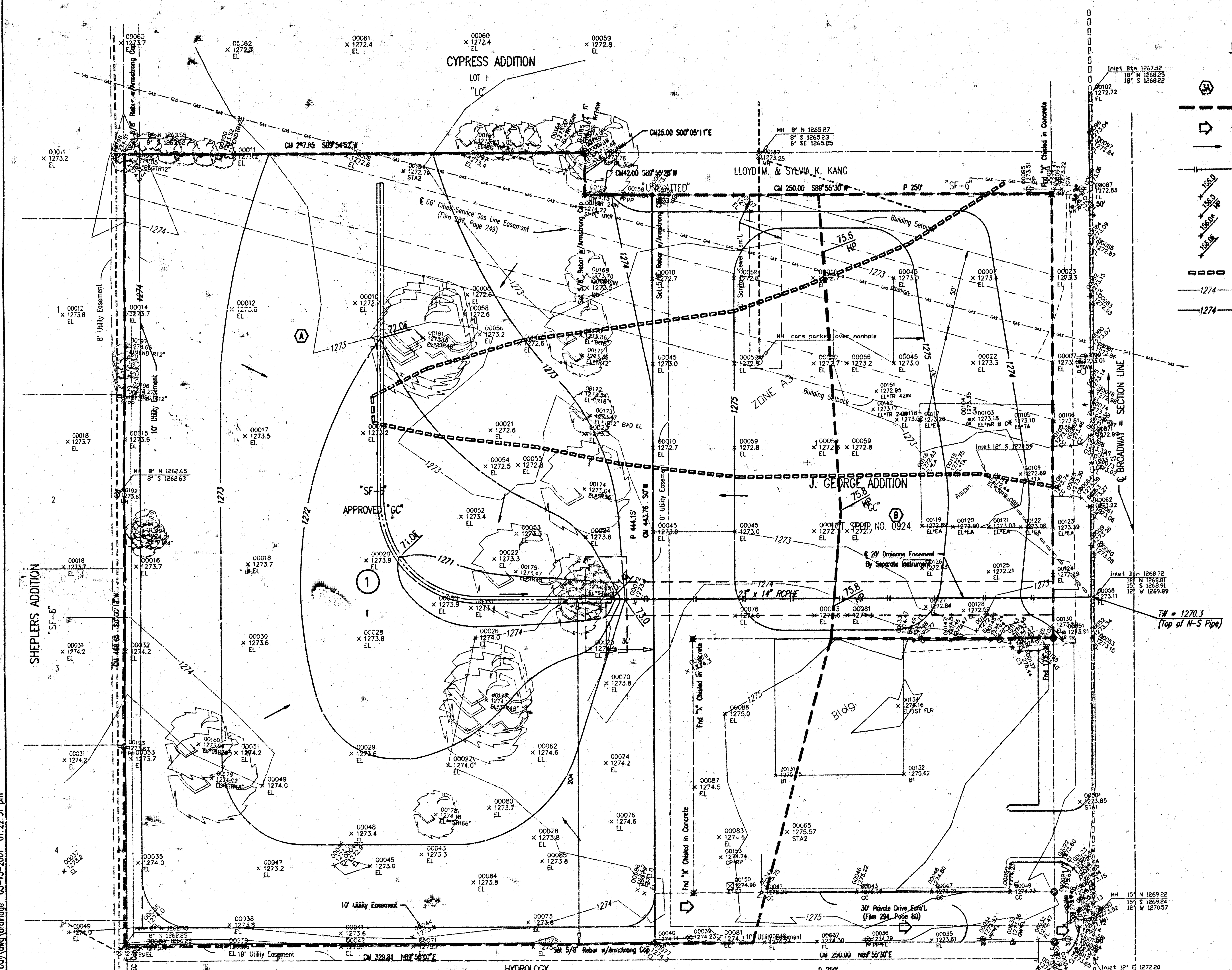


LEGEND

Symbol	Description
3A	BASIN IDENTIFIER
	BASIN BOUNDARY
	MAJOR STORM WATER OVERFLOW (Q100)
	MINOR STORM WATER FLOW (Q2)
	STORM SEWER
156.0	SPOT ELEVATION
156.0 HP	HIGH POINT ELEVATION
156.0*	MATCH EXISTING ELEVATION
155.05	FLOWLINE ELEVATION
	FEMA 100-YEAR FLOODPLAIN LIMITS
1274	EXISTING CONTOUR
1274	PROPOSED CONTOUR

R1E

MACARTHUR

SENECA

BROADWAY

T28S

17

PROJECT AREA

47TH STREET SOUTH

VICINITY MAP

FEMA B.F.E. =1274.0 M.S.L.

Elev.	Area(Ac)	Volume(Ac-ft)
1270.14	0	0.039
1271.0	0.09	0.38
1272.0	0.67	1.31
1273.0	1.95	

Survey by: Armstrong Land Surveyors, P.A.

SCALE 1"=30'

LEGEND

- set 5/8" rebar & 'Armstrong' cap
- 'SRB' capped rebar found
- 'PEC' capped rebar found
- found 3/4" iron pipe
- found 1/2" iron pipe
- found chiseled in concrete
- M - measured distance
- P - plat distance
- cm - calculated from measured distance
- property line
- center line
- easement line
- setback line
- underground utility
- wooden fence
- chainlink fence
- cable TV riser
- telephone riser
- fire hydrant
- elec. transformer
- air conditioner
- power pole
- manhole
- light pole
- gas meter
- gas valve
- water meter
- water valve
- coniferous tree
- deciduous tree

HYDROLOGY

BASIN	AREA	Q_{100}(Developed)	Q_{100}(Existing)	Q_{OUT}100-yr
A	4.6 Ac.	28.6 cfs	16.9 cfs	11.1 cfs
B	0.8 Ac.	5.0 cfs	3.8 cfs	5.0 cfs
	Total	33.6 cfs	20.7 cfs	16.1 cfs

See Supporting Calulations for hydrology calulations and detention area design.

Outlet pipe = 23" x 14" RCPE to existing SWS along Broadway.
HW =1272.4 M.S.L.

MINIMUM OPENING= 1275.2 M.S.L.

DSNR: SAD OPER: SAD SCALE: 1=30.00
Q:\2000\00273\Pay Day\dwg\drainage 05-15-2001 01:22:51 pm

PAYDAY MOTORS ADDITION

DRAINAGE PLAN

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	KER	Checked by	
Drawn by	KER	Date MAY 2001	Job No. 00273