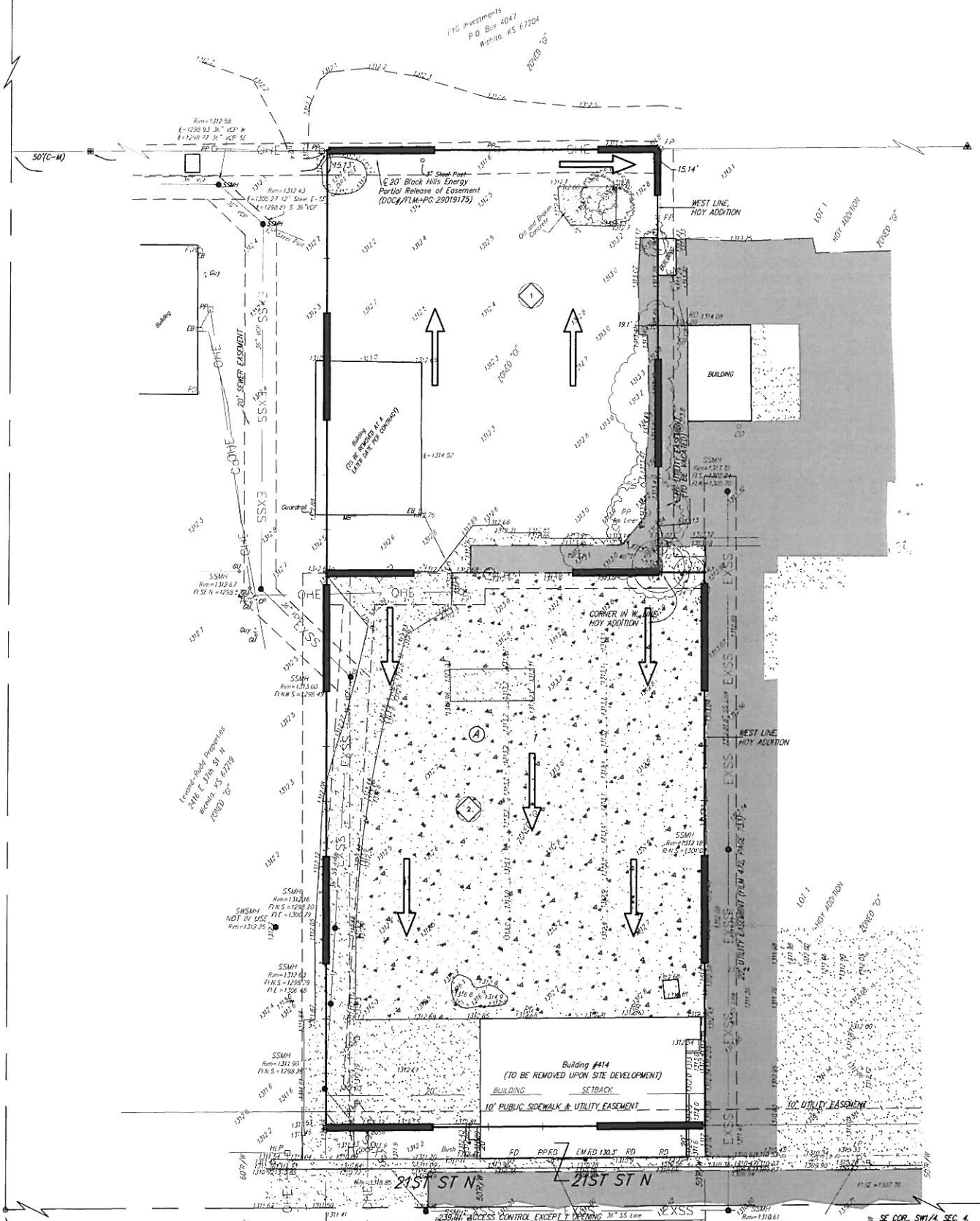


DRAINAGE PLAN

PERFEKTA ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

NW COR. SW1/4, SEC. 4,
TWP. 27-S, R-1-E



NORTH EXISTING

DA = 1.2 acres
Impervious = 42%
C = 0.70
Q_s = 3.2 cfs
Q₁₀ = 4.4 cfs
Q₁₀₀ = 6.2 cfs

SOUTH EXISTING

DA = 1.7 acres
Impervious = 98%
C = 0.89
Q_s = 7.1 cfs
Q₁₀ = 9.7 cfs
Q₁₀₀ = 14 cfs

Table 4-13 Volumetric Runoff Coefficients by Land Use and Hydrologic Soil Group

Land Use	Hydrologic Soil Group				Land Use	Hydrologic Soil Group			
	A	B	C	D		A	B	C	D
Undisturbed	0.02	0.03	0.04	0.05	Undisturbed	55	71	80	84
Turf or Disturbed Soils	0.15	0.20	0.22	0.25	Turf or Disturbed Soils	71	80	84	88
Impervious Cover	0.95	0.95	0.95	0.95	Impervious Cover	98	98	98	98

Weighted Volumetric Runoff Coef. (R_v) (eq. 4-24*)

Basin	#	Undist. Area (ft ²)	Dist. Area (ft ²)	Red. Imp. Area (ft ²)	New Imp. Area (ft ²)	Total Area (ft ²)	U		D		R _v (eq. 4-25*)	WQ ₁₀ (cfs)
							%	%	%	%		
Total Site	0	12,000	103,000	20,000	136,000	0.000	0.018	0.217	0.141	0.1985	2.148	

Water Quality Peak Flow POINT X

eq. 4-15*

Q_p = q_u * A * Q_{uv} * F_p

CN = 95 Table 4-0
I_a/P = 0.09
T₀ = 15 min
q_u = 750 Figure 4-6
A = 135,000 ft²
Q_{uv} = 0.1585 Eq. 4-24
F_p = 1.00 Table 4-10
Q_p = 0.21 cfs

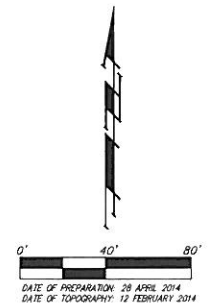
NOTE: Redevelopment volumetric runoff coefficient (R_v) has been reduced to 30% of the total value due to the site being a redevelopment area. Water quality peak flow should be used to size water quality units that treat on a discharge basis, such as 1

NOTE: This site is a redevelopment site. If any disturbance of 1 acre or more occurs on the subject site then water quality will be required. Water quality should be provided per the table above. The property, at the time of site plan, will need to meet Wichita Ordinance Section 16.32 as it pertains to redevelopment.

Due to the site being less than 5 acres downstream channel protection will not be provided.

We do not expect any detention on site since this is a redevelopment and the majority of the site is currently paved.

At this time, no site plans have been provided to us in order to develop specific grading and drainage plan. When the site is redeveloped, a specific grading and drainage plan will need to be provided and approved to meet this general plan.

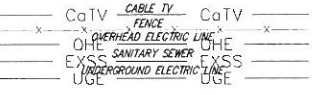
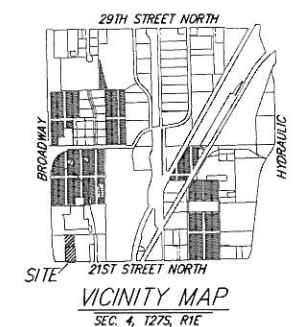


OWNER/CONTRACT PURCHASER:
PERFEKTA, INC.
ATTN: ERIC DIEHL
480 E. 21ST ST. N.
WICHITA, KS 67214

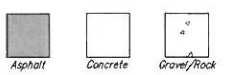
LEGAL DESCRIPTION:
All of Lot 1, Block A, Best Supply Addition, Wichita, Sedgewick County, Kansas, TOGETHER with the following described tract, A tract in the South Half of the Southwest Quarter of the Southwest Quarter of Section 4, Township 27 South, Range 1 East of the Sixth Principal Meridian, Sedgewick County, Kansas described as follows: Beginning at the northwest corner of Lot 1, Block A, Best Supply Addition, Wichita, Sedgewick County, Kansas, thence N00°29'53"W along the extended west line of Lot 1, Block A, in said Best Supply Addition, 261.69 feet to a point on the north line of said South Half, thence N89°33'42"E along said north line, 209.58 feet to the northwest corner of Lot 1, Block A, Wichita, Kansas, Sedgewick County, Kansas; thence S00°74'00"E along the west line of Lot 1 in said Hay Addition, 265.55 feet to a deflection corner in the north line of Lot 1, in said Best Supply Addition; thence S89°42'31"W along the north line of Lot 1, in said Block A, 209.51 feet to the point of beginning.

BENCHMARK:
Elevation and location as depicted on the face of the plot.

- = #4 REBAR W/ "BAUGHMAN" CAP (SET)
- ⊙ = 1/2" IRON PIN IN THIMBLE (FOUND)
- ⊚ = 3/4" IRON IN THIMBLE (FOUND)
- ▲ = #5 REBAR W/ "SRB" CAP (FOUND)
- ⊞ = CROSS (FOUND)
- ◆ = MKEC DISC (FOUND)



- ATT Ped = ATT Ped = A.T.&T. Telephone Pedestal
- ATM = ATM = A.T.&T. Telephone Manhole
- CO = CO = Cleanout
- EB = EB = Electric Box
- EM = EM = Electric Meter
- FH = FH = Fire Hydrant
- FHT = FHT = Fire Hydrant Test
- GM = GM = Gas Meter
- GP = GP = Gas Pole
- GT = GT = Gas Test
- HLP = HLP = High Line Pole
- LP = LP = Light Pole
- MW = MW = Monitoring Well
- PP = PP = Power Pole
- RD = RD = Roof Drain
- SSMH = SSMH = Sanitary Sewer Manhole
- SWSMH = SWSMH = Stormwater Sewer Manhole
- TP = TP = Telephone Pole
- WM = WM = Water Meter
- WV = WV = Water Valve
- XFM = XFM = Transformer
- VP = VP = Vent Pipe
- Guy = Guy Anchor
- CV = CV = Gas Valve



NOTE:
A drainage plan has been developed for the plot and that all drainage easements, rights-of-way, or reserves shall remain of established grades or as modified with the approval of the applicable City or County Engineer and unobstructed to allow for the conveyance of stormwater.

NOTES: This property lies within a FEMA Zone X-Shaded as of this date per FEMA IRM Panel 355 of 700, for Wichita, Sedgewick County, Kansas, effective February 2, 2007.

DRAINAGE PLAN
PERFEKTA ADDITION
21 MAY 2014

Baughman Company, P.A.
435 East 10th Street, Wichita, KS 67211 | P: 316-262-7221 | F: 316-262-0144

Baughman ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT: PERFEKTA ADDITION, 480 E. 21ST ST. N., WICHITA, KS 67214