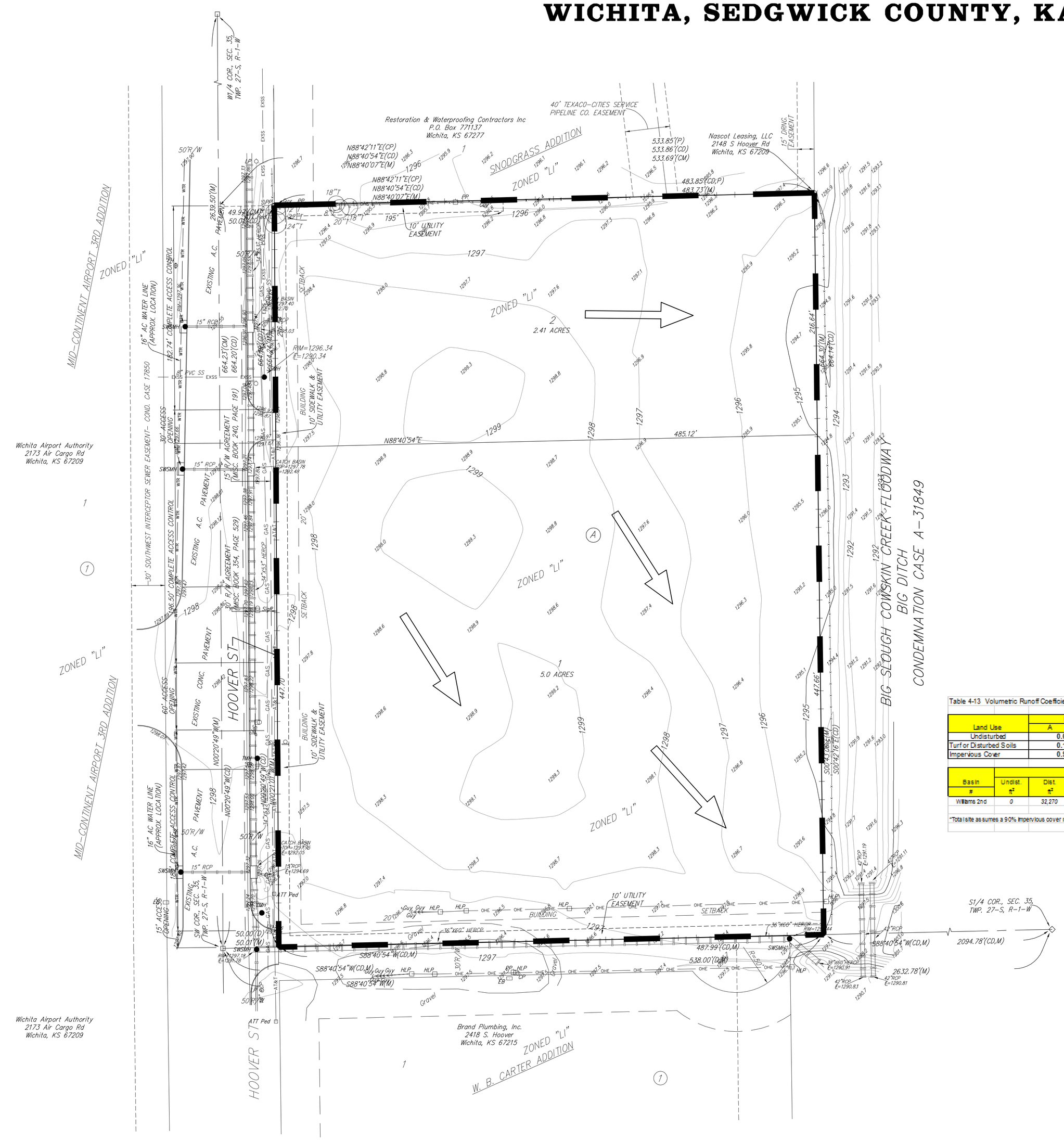
DRAINAGE PLAN

ALLEN WILLIAMS 2ND ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



OWNER:
AMI METALS, INC.
2535 S. KESSLER ST.
WICHITA, KS 67217
PH. (316) 945-7771

RAW INVESTMENTS, INC.
2008 W. HARRY CT.
WICHITA, KS 67213

LEGAL DESCRIPTION:
The south 664.1 feet of a tract of land described as beginning at the southwest corner of the Southwest Quarter of Section 35, Township 27 South, Range 1 West of the Sixth Principal Meridian, Sedgwick County, Kansas; thence north on the west line of said Southwest Quarter to a point 348 feet south of the north line of said Southwest Quarter; thence east to the west line of the right-of-way of the Wichita-Valley Center Flood Control; thence southerly along the west line of said right-of-way to the south line of said Southwest Quarter; thence west to beginning.

BENCHMARK:
CHISELED CROSS ON NORTHEAST CORNER OF CATCH BASIN, 42.2' N. & 19.7' W. OF THE SOUTHWEST CORNER, LOT 1, BLOCK A, 2252 HOOVER STREET ADDITION.
ELEV. = 1297.78 NAVD88

CHISELED CROSS ON SOUTHEAST CORNER OF CATCH BASIN, 113 S. & 19.3' W. OF THE NORTHWEST CORNER, LOT 1, BLOCK A, 2252 HOOVER STREET ADDITION.
ELEV. = 1297.78 NAVD88

0' 50' 100'

DATE OF PREPARATION: 8 FEBRUARY 2016
DATE OF TOPOGRAPHY: 28 JANUARY 2016
CONTOUR INTERVALS = 1 FOOT

℄=SECTION LINE

● = #4 REBAR W/ "BAUGHMAN" CAP (SET)
✖ = #4 REBAR W/ "BAUGHMAN" CAP (FOUND)
○ = 1/2" IRON PIPE (FOUND)(ORIGIN UNKNOWN)
◇ = 3/4" IRON PIPE (FOUND)(ORIGIN UNKNOWN)
□ = 1/2" IRON IN THIMBLE (FOUND)

(M) = MEASURED
(P) = PLATTED
(D) = DESCRIBED
(CM) = CALCULATED PER MEASURED INFO.
(CP) = CALCULATED PER PLATTED INFO.
(CD) = CALCULATED PER DESCRIBED INFO.

CB = Catch Basin
CP = Cable TV Pedestal
EB = Electric Box
FH = Fire Hydrant
Guy = Guy Anchor
GV = Gas Valve
LP = Light Pole
PM = Pipeline Marker
PP = Power Pole
Sign = Sign
SSMH = Sanitary Sewer Manhole
ATTMH = ATT Manhole
ATT Ped = ATT Pedestal
TB = Traffic Box
TMH = Traffic Manhole
WV = Water Valve
= Tree (w/ size) 24"T

WATER LINE
AT&T LINE
GAS LINE
CABLE TV
FENCE
OVERHEAD ELECTRIC LINE
SANITARY SEWER
UNDERGROUND ELECTRIC LINE
STORMWATER SEWER

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

Land Use	Hydrologic Soil Group A	B	C	D	Land Use	Hydrologic Soil Group 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

Basin #	Weighted Volumetric Runoff Coef (R_v) (eq. 4-24*) Undist. ft^2	Dist. ft^2	Red. imp. ft^2	New imp. ft^2	Total Area ft^2	U %	D %	Redev. I %	I %	R_v %	WQ$_v$ ft^3 eq. 4-25*
Williams 2nd	0	32,270		290,430	322,700	0.000	0.015	0.000	0.855	0.8700	29,079

*Total site assumes a 90% impervious cover rate after final development.

TOTAL SITE DRAINAGE Area = 7.4 acres	
EXISTING C = 0.50	DEVELOPED C = 0.80
Tc = 15 min	Tc = 15 min
Q_2 = 14 cfs	Q_2 = 23 cfs
Q_5 = 17 cfs	Q_5 = 27 cfs
Q_{10} = 19 cfs	Q_{10} = 31 cfs
Q_{100} = 27 cfs	Q_{100} = 44 cfs

DETENTION
10% Rule - This site is 7.4 acres and is at the downstream end of an 1180 acre basin which drains to the pump station to the Wichita Valley Center Floodway. Based on the relatively small size of the site to the basin, and its location at the downstream end of the basin, no detention is proposed on the site. In addition, the Wichita Valley Center Floodway ditch drains a much larger area than this and is directly adjacent to the site.

WATER QUALITY
This site will meet water quality requirements at the time of site development. We expect the developed property to use snouts (or equivalent) water quality devices to treat storm water runoff prior to discharging offsite to the rear channel or to the adjacent storm sewer pipe system.

CHANNEL PROTECTION
Due to this site draining to a man-made ditch pipe system, and its location just upstream from the pump station, no channel protection is being provided on site.

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

DRAINAGE PLAN
ALLEN WILLIAMS 2ND ADDITION
15 FEB 2016

Baughman Company , P.A.
315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149
Baughman ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

E:\Projects\2252 HOOVER ROAD PLAT\Water Resources\2252 HOOVER P_Drain.dwg