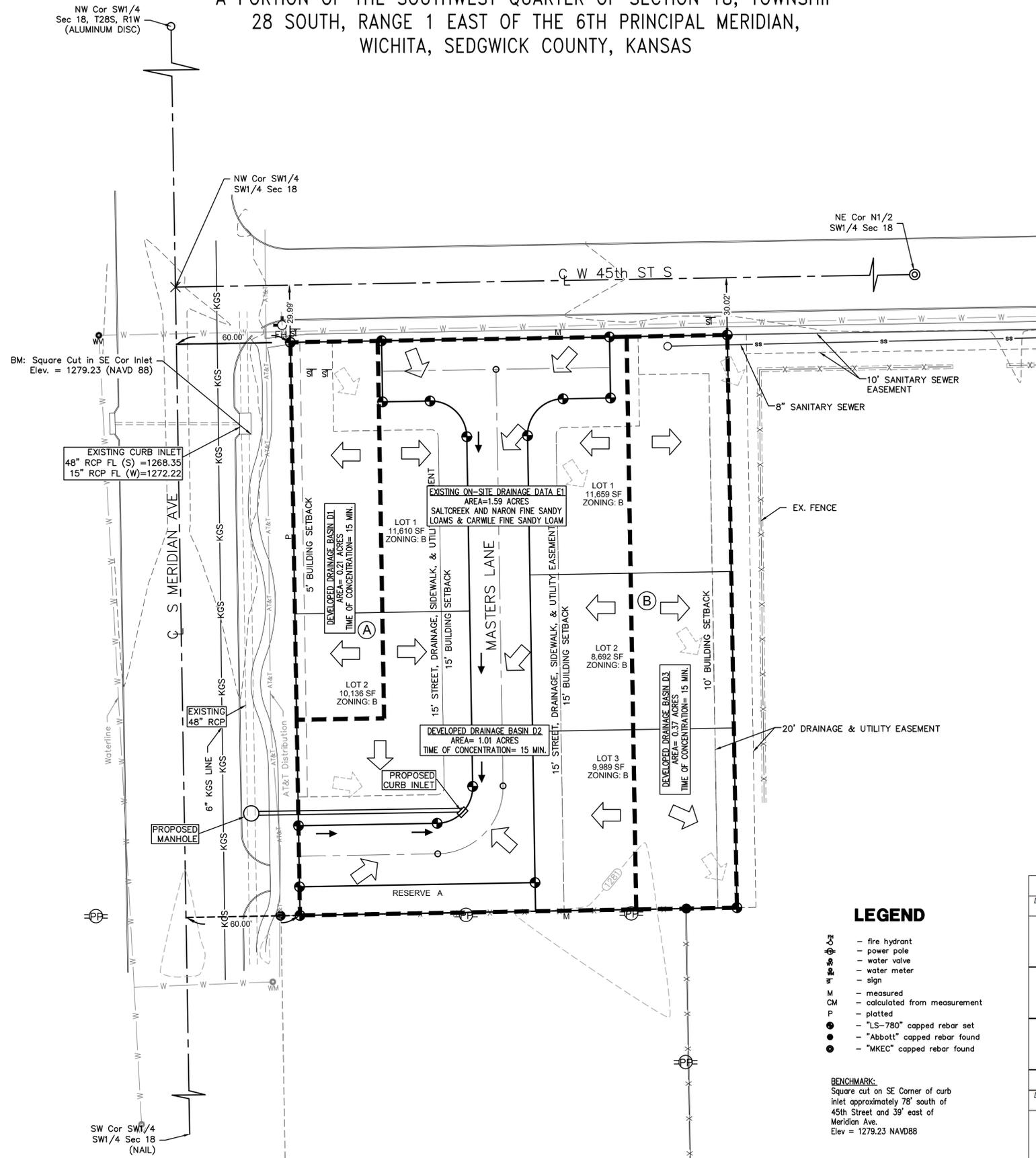


DRAINAGE PLAN AMR 2ND ADDITION

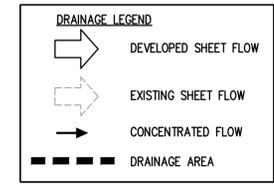
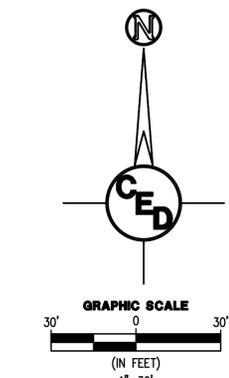
A PORTION OF THE SOUTHWEST QUARTER OF SECTION 18, TOWNSHIP
28 SOUTH, RANGE 1 EAST OF THE 6TH PRINCIPAL MERIDIAN,
WICHITA, SEDGWICK COUNTY, KANSAS



LEGAL DESCRIPTION:

THAT PART OF LOTS 1, 2, 3, AND 4, BLOCK A, AMR ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS, DESCRIBED AS: BEGINNING AT THE NORTHWEST CORNER OF SAID LOT 2; THENCE S00°58'06"E ALONG THE WEST LINE OF SAID LOT 2, 300.40 FEET TO THE SOUTHWEST CORNER OF SAID LOT 4; THENCE N86°59'09"E ALONG THE SOUTH LINE OF SAID LOT 4 AND LOT 4 EXTENDED, 230.00 FEET TO A POINT 26.62 FEET EAST OF THE SOUTHWEST CORNER OF SAID LOT 4; THENCE N00°58'06"W PARALLEL WITH THE EAST LINE OF SAID LOTS 2, 3, AND 4, 300.19 FEET TO THE NORTH LINE OF SAID LOT 1 BEING 26.49 FEET EAST OF THE NORTHEAST CORNER OF SAID LOT 1; THENCE S89°02'21"W ALONG THE NORTH LINE OF SAID LOTS 1, 2, 3, AND 4, 230.00 FEET TO THE POINT OF BEGINNING.

GROSS AREA = 95,794.171 SQ. FT., OR 2.199 ACRES MORE OR LESS.
NET AREA = 69,066.781 SQ. FT., OR 1.586 ACRES



LEGEND

- ⊙ - fire hydrant
- ⊙ - power pole
- ⊙ - water valve
- ⊙ - water meter
- ⊙ - sign
- M - measured
- CM - calculated from measurement
- P - plotted
- - "LS-780" capped rebar set
- - "Abbott" capped rebar found
- - "MKEC" capped rebar found

BENCHMARK:
Square cut on SE Corner of curb inlet approximately 78' south of 45th Street and 39' east of Meridian Ave.
Elev = 1279.23 NAVD88

Developed Drainage Summary Chart - Rational Method

Drainage Basin	Drainage Area	% Impervious	Return Period	Rational C	Tc (min.)	Intensity (in/hr)	Peak Discharge (cfs)
D1	0.21	52	2	0.57	15	3.34	0.40
			5	0.59		4.18	0.52
			10	0.64		4.81	0.65
			25	0.66		5.63	0.78
			100	0.73		6.83	1.05
D2	1.01	58	2	0.61	15	3.34	0.43
			5	0.62		4.18	0.54
			10	0.67		4.81	0.68
			25	0.69		5.63	0.82
			100	0.75		6.83	1.08
D3	0.37	41	2	0.52	15	3.34	0.36
			5	0.56		4.18	0.49
			10	0.62		4.81	0.63
			25	0.64		5.63	0.76
			100	0.75		6.83	1.08

Existing Drainage Summary Chart - Rational Method

Drainage Basin	Drainage Area	% Impervious	Return Period	Rational C	Tc (min.)	Intensity (in/hr)	Peak Discharge (cfs)
E1	1.59	0	2	0.28	29	2.30	1.02
			5	0.33		2.90	1.52
			10	0.43		3.35	2.29
			25	0.46		3.96	2.90
			100	0.63		4.87	4.88

ENGINEERING NOTES:

- THE RATIONAL METHOD EQUATIONS WERE USED TO COMPUTE THE PEAK DISCHARGES FOR ON-SITE DRAINAGE.
- THE ENTIRE PROPERTY IS LOCATED IN ZONE X ON THE FEMA FLOOD MAP (FIRM #2017300501G), EFFECTIVE DATE DECEMBER 22, 2016.
- WATER QUALITY TREATMENT AND DETENTION ARE NOT REQUIRED FOR THIS DEVELOPMENT SINCE THE DISTURBED ACREAGE IS PROJECTED TO BE APPROXIMATELY 0.91 ACRES FOR THE PROPOSED RESIDENTIAL IMPROVEMENTS. PROPOSED IMPERVIOUS AREA IS PROJECTED TO BE UNDER ONE ACRE. ANY CHANGES TO THE RESIDENTIAL IMPROVEMENTS THAT RESULT IN AN INCREASE IN DISTURBED ACREAGE OR IMPERVIOUS AREA OF ONE OR MORE ACRES WILL REQUIRE ADDITIONAL DRAINAGE ANALYSES AND A REDEVELOPED DRAINAGE PLAN INCORPORATING WATER QUALITY AND QUANTITY CONSIDERATIONS.

OWNERS:
LARRY J. GREIDER II AND KIMBERLY R. GREIDER
2417 W 45th St S
WICHITA, KS 67217

SURVEYOR:
ARMSTRONG LAND SURVEY, P.A.
1601 E. HARRY
WICHITA, KANSAS 67211
(316) 263-0082

NOTE: BOUNDARY SURVEY COMPLETED BY ARMSTRONG LAND SURVEY, P.A., ON OR ABOUT MARCH 8, 2017.

CIVIL DRAWINGS PREPARED BY:

CERTIFIED ENGINEERING DESIGN, P.A.

1935 WEST MAPLE STREET
WICHITA, KANSAS 67213
PH: (316) 262-8808
FAX: (316) 262-1669

1	SHEET
1	TOTAL

FILE LOCATION: S:\Drawing Files\Project_ATN_10-17-16\AMR 2nd Add\DWG\AMR 2nd Add - Drainage Plan.dwg USER:casawyer SAVED:2/28/2018 10:06 AM PLOTTED:2/28/2018 10:08 AM