LineNo.	Flow Type	Length	Slope	Velocity	Tc	Intensity	Land use	Composite	DrainageArea	Q
		(ft)	(%)	(ft/s)	(min)	(in/hr)	%	C value	(ac)	(cfs)
1	Grass Swale	29.8	0.34	4.94	24.6	2.53	100	0.42	0.68	5.3
2	Gutter	139.0	0.39	3.78	24.1	2.56	100	0.84	0.92	4.64
3	Gutter	33.3	0.39	2.18	23.8	2.58	100	0.84	0.92	2.67
4	Grass Swale	137.4	0.38	0.69	20.1	2.84	100	0.42	0.63	0.75

SCS
HYDROLOGY CALCULATION
METHOD USED.

From		To		Length	LineSize	InvertUp	HGLUp	InvertDn	HGLDn	Slope	RimElevUp	RimElevDn	Inlet Q	Bypass Q	Q	Full Pipe	Velocity	Spread
Structure	Type	Structure	Type	(ft)	(in)	(ft)	(ft)	(ft)	(ft)	(%)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(cfs)	(ft/s)	Feet
PD-4	Dp-Grate	Outfall	End-Section	29.8	15	1279.36	1280.51	1279.26	1280.19	0.34	1283.18	....	0.81	....	5.3	4.05	4.94	0.18
PD-3	Curb Inlet	PD-4	Dp-Grate	139.0	15	1279.91	1281.28	1279.37	1280.67	0.39	1282.91	1283.18	3.9	....	4.64	4.36	3.78	0.39
PD-2	Curb Inlet	PD-3	Curb Inlet	33.3	15	1280.04	1281.44	1279.91	1281.39	0.39	1282.86	1282.91	3.9	....	2.67	4.37	2.18	0.39
PD-1	Dp-Grate	PD-2	Curb Inlet	137.4	15	1280.56	1281.49	1280.04	1281.48	0.38	1282.73	1282.86	0.75	....	0.75	4.3	0.69	0.18

GENERAL NOTES:

1. * RAINFALL INTENSITY TO BE FOR THE DESIGN OF 2-YEAR(RESIDENTIAL), 5-YEAR(COMMERCIAL), 10 YEAR(DOWNTOWN) AND 100-YEAR(CROSS-CULVERTS).
2. A DRAINAGE MAP IS INCLUDED AS A SEPARATE SHEET.
3. OPTIONAL ALTERNATE PIPE LISTED ON THIS SHEET MAY BE FURNISHED IN LIEU OF THE PIPE LISTED UNDER THE BID ITEM "STORM SEWER".
4. UNLESS OTHERWISE SPECIFIED, A CONTINUOUS SYSTEM OF STORM SEWER SHALL BE OF THE SAME TYPE MATERIAL.
5. THE QUANTITIES, DIMENSIONS AND FLOWLINES GIVEN ON THIS SHEET ARE TO BE USED IF THE FOLLOWING TYPES OF "SMOOTH PIPES" ARE FURNISHED: RCP, VCP-ES, BCCM-FP, & RCHPE.
6. GUTTER SPREAD SAHLL BE IN ACCORDANCE WITH THE CITY DESIGN MANUAL.

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

TABLE FOR STORMWATER SEWER DESIGN INFORMATION

CITY ENGINEER
GARY JANZEN, P.E

PROJECT NUMBER	OCA NUMBER	DATE
		01/2015

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

DESIGN	DRAWN

SHEET

SW-411

REV	DATE	DESCRIPTION	DSN	DWN	CHK
B	04/16/24	RFI & CITY COMMENTS	SMM	CS	SMM
0	03/01/24	BIDDING	SMM	TDA	SMM

SUNDIATA MARCELIN LICENSED 29546 KANSAS PROFESSIONAL ENGINEER

SUNDIATA MARCELIN
ENGINEER
KS # 29546

KAW VALLEY ENGINEERING
9139 E. 37TH STREET NORTH
WICHITA, KANSAS 67226
PH. (316) 440-4304
wm@kveng.com | www.kveng.com

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24

MAC MERIDIAN ADDITION
WEST MACARTHUR ROAD
WICHITA, KANSAS 67217

STORM SEWER IMPROVEMENTS
TABULATED INFORMATION DETAIL

PROJ. NO.	
G21D1997	
DESIGNER	DRAWN BY
SMM	TDA
CFN	
1997DDET	
SHEET	REV
07	1

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