Sheet
C23

Preliminary Site Plan
17-0272
Project Mustang

Storm Drainage
Map West

NO.	BY	CD	DATE
	JMD	PKC	02/01/18
	JMD	PKC	12/18/17

PER CITY COMMENTS
ORIGINAL SUBMITTAL
REVISION

Renaissance Infrastructure Consulting
5015 NW CANAL STREET, SUITE 100
RIVERSIDE, MISSOURI 64150
816.800.0950
WWW.RIC-CONSULT.COM

PROFESSIONAL ENGINEER
24975
KANSAS CITY

NORTH
1"=100'
0 50' 100'

A0-Structure Label
3.00-Area to Structure (Ac.)

MATCH LINE

W4 0.43
Y1 2.05
C1 2.64
D1 2.12
E1 2.17
F1 1.73
G1 2.15
H1 2.36
BB1 2.03
J1 2.84
B11 0.77
B12 0.55
B4 0.40
B5 0.61
B6 0.60
B7 1.49
B8 0.00
B9 0.25
B10 0.24
B13 0.42
B3 0.00
B2 0.00
B1 0.00
K10 4.39
R1 1.22
K10 2.35
Q2 1.48
Q1 1.48
K9 2.70
P2 1.48
P1 1.48
K8 2.77
O2 1.48
O1 1.48
K7 2.70
N2 1.48
N1 1.48
K6 2.70
M2 1.48
K5 1.07
M1 3.99
K4 0.89
A1 0.00
A2 0.72
A3 1.42
A4 0.71
I4 0.31
I3 0.36
I2 0.27
I1 1.81
K3 1.55
K2 0.00
S5 0.55
S4 0.00
T1 0.57
S3 0.61
S2 0.61
K1 0.00
S1 0.00
U1 0.00
U2 0.48
U3 0.32
Y2 0.99
V1 0.43
U4 0.00
U5 0.78
U6 0.00
U7 20.65

Phase II Storm
207th Street
Tributary Area Drainage Boundary (Typ.)
Water Feature

Sheet
C24

17-0272
Project Mustang

Preliminary Site Plan

Storm Drainage
Map East

NO.	BY	CD	DATE	REVISION
	JMD	PAC	02/01/18	PER CITY COMMENTS
	JMD	PAC	12/18/17	ORIGINAL SUBMITTAL

Renaissance Infrastructure Consulting
5015 NW CANAL STREET, SUITE 100
RIVERSIDE, MISSOURI 64150
816.800.0950
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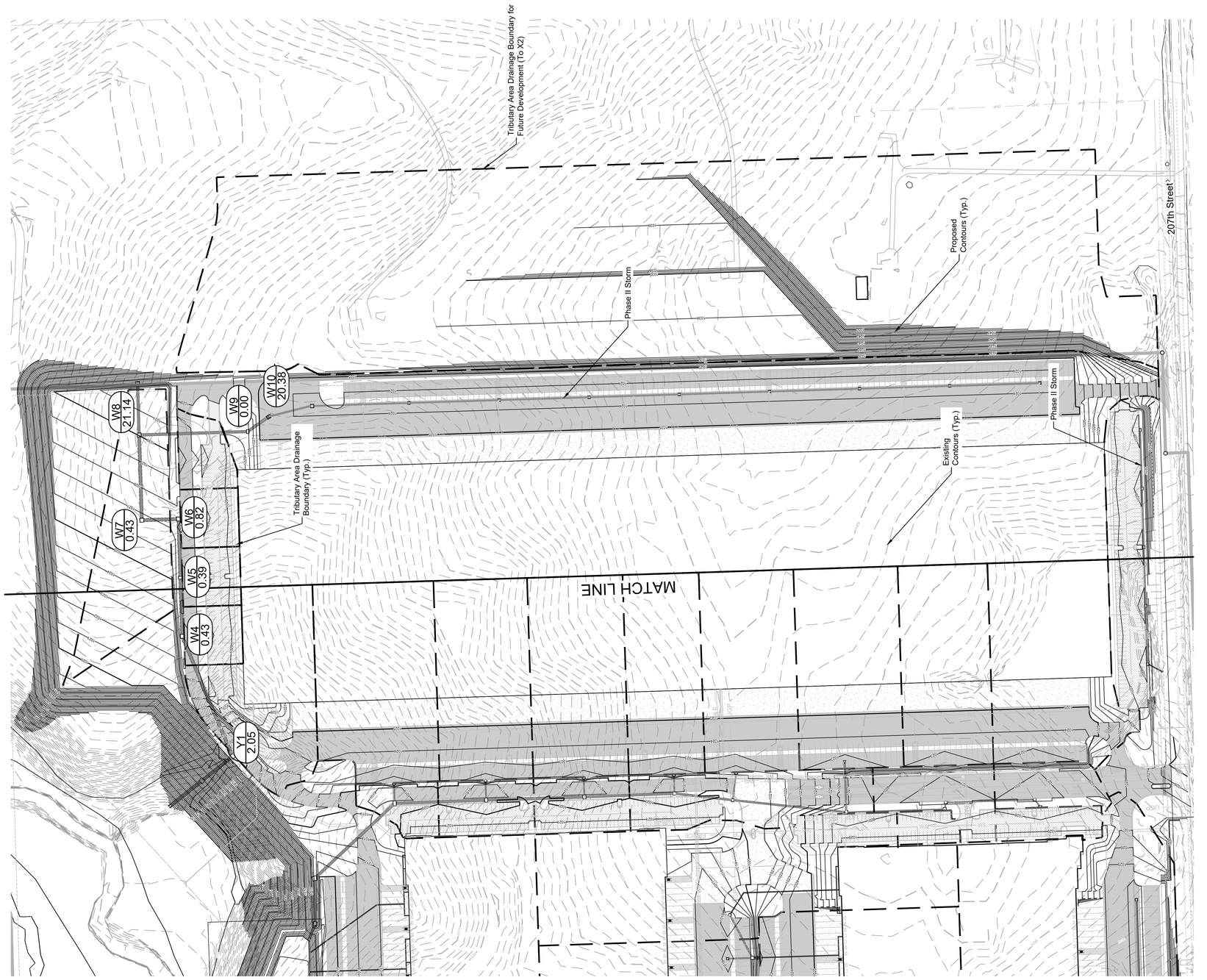
PROFESSIONAL ENGINEER
24975
PAUL A. CASTLEMAN
CIVIL

NORTH
0 50' 100'
1"=100'

A0
1.00
A0-Structure Label
3.00-Area to Structure (Ac.)



Jan 31 , 2018-4:09pm
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		Overland Flow									System Flow					Pipe Design																Structure Design			
Line	Point	Trib. Area (Ac.)	"C" Value	Design Storm	"K" Value	Time of Conc. (min.)	Intensity i (in./hr.)	Trib Runoff (cfs)	Bypass flow (cfs)	Total Runoff (cfs)	Total Area (Ac.)	Total (K*A*C)	Time of Conc. (min.)	Intensity i (in./hr.)	System Discharge (cfs)	U/S Node	D/S Node	Pipe Type	Pipe Shape	Pipe Diameter (in.)	Pipe Length (ft.)	Mannings "n" value	Pipe Slope (%)	Design Flow (cfs)	Pipe Capacity (cfs)	Full Flow Velocity (fps)	Design Flow Velocity (fps)	Depth of Flow (in.)	Flow Time (min.)	U/S Invert El.	U/S Crown El.	D/S Invert El.	D/S Crown El.	U/S Depth of Cover (ft.)	D/S Depth of Cover (ft.)	Headwater Inlet Elev. (EGL)	Headwater Outlet Elev. (EGL)	Inlet/Outlet Control	Top Elevation
A	A4	0.714	0.87	10	1	5.00	7.35	4.57	0.00	4.57	0.714	0.62	5.00	7.35	4.57	A4	A3	HDPE	Round	15	136.12	0.012	0.44	4.57	4.63	3.77	4.30	12.0	0.53	1011.60	1012.85	1011.00	1012.25	2.50	3.50	1012.72	1012.29	I	1015.35
				100	1.25		10.32	7.38	0.00	7.38		0.71		10.32	7.38									7.38			3.77	15.0	0.60										
	A3	1.418	0.87	10	1	5.00	7.35	9.07	0.00	9.07	2.133	1.86	5.53	7.19	13.35	A3	A2	HDPE	Round	18	47.26	0.012	1.59	13.35	14.29	8.09	9.18	13.7	0.09	1010.75	1012.25	1010.00	1011.50	3.50	4.65	1012.06	1012.45	O	1015.75
				100	1.25		10.32	14.64	0.00	14.64		2.13		10.11	21.56									21.56			8.09	18.0	0.10										
	A2	0.000	0.87	10	1	5.00	7.35	0.00	0.00	0.00	2.133	1.86	5.53	7.19	13.35	A2	A1	HDPE	Round	24	129.76	0.012	0.39	13.35	15.18	4.83	5.44	17.3	0.40	1009.50	1011.50	1009.00	1011.00	4.65	0.00	1010.99	1010.90	I	1016.15
				100	1.25		10.32	0.00	0.00	0.00		2.13		10.11	21.56									21.56			4.83	24.0	0.45										
	A1																																						1011.00
B	B13	0.422	0.87	10	1	5.00	7.35	2.70	0.00	2.70	0.422	0.37	5.00	7.35	2.70	B13	B12	HDPE	Round	15	19.77	0.012	9.86	2.70	21.89	17.84	12.18	82.6	0.03	1020.00	1021.25	1018.05	1019.30	6.10	7.10	1026.95	1027.23	O	1027.35
				100	1.25		10.32	0.00	0.00	0.00		0.42		10.32	4.36									4.36			69.14	97.6	0.00										
	B12	0.549	0.87	10	1	5.00	7.35	3.51	0.00	3.51	3.384	2.94	5.03	7.34	21.62	B12	B11	HDPE	Round	24	197.27	0.012	0.79	21.62	21.67	6.90	7.86	19.4	0.42	1017.55	1019.55	1016.00	1018.00	7.00	8.40	1019.26	1018.58	I	1026.55
				100	1.25		10.32	5.66	0.00	5.66		3.38		10.31	34.89									34.89			6.90	24.0	0.48										
	B11	0.772	0.87	10	1	5.00	7.35	4.94	0.00	4.94	6.614	5.75	5.45	7.22	41.53	B11	B10	HDPE	Round	30	15.06	0.012	1.66	41.53	57.16	11.64	12.68	18.9	0.02	1015.50	1018.00	1015.25	1017.75	8.40	9.60	1017.14	1019.32	O	1026.40
				100	1.25		10.32	7.97	0.00	7.97		6.61		10.14	67.07									67.07			11.64	30.0	0.02										
	B10	0.240	0.87	10	1	5.00	7.35	1.54	0.00	1.54	6.854	5.96	5.46	7.21	43.01	B10	B9	HDPE	Round	36	218.21	0.012	0.46	43.01	48.87	6.91	7.79	25.9	0.47	1014.75	1017.75	1013.75	1016.75	9.60	10.60	1016.94	1016.85	I	1027.35
				100	1.25		10.32	2.48	0.00	2.48		6.85		10.13	69.45									69.45			6.91	36.0	0.53										
	B9	0.249	0.87	10	1	5.00	7.35	1.60	0.00	1.60	9.466	8.24	5.93	7.08	58.27	B9	B8	HDPE	Round	36	253.40	0.012	0.73	58.27	61.68	8.73	9.92	27.7	0.43	1013.25	1016.25	1011.40	1014.40	11.10	6.35	1015.61	1015.24	I	1027.35
				100	1.25		10.32	2.57	0.00	2.57		9.47		9.95	94.18									94.18			8.73	36.0	0.48										
	B8	0.000	0.87	10	1	5.00	7.35	0.00	0.00	0.00	11.613	10.10	6.36	6.96	70.28	B8	B7	HDPE	Round	42	130.10	0.012	0.50	70.28	77.01	8.00	9.07	31.5	0.24	1010.90	1014.40	1010.25	1013.75	6.35	5.25	1013.55	1014.15	O	1020.75
				100	1.25		10.32	0.00	0.00	0.00		11.61		9.79	113.65									113.65			8.00	42.0	0.27										
	B7	1.487	0.87	10	1	5.00	7.35	9.51	0.00	9.51	14.826	12.90	6.60	6.89	88.88	B7	B6	HDPE	Round	48	200.01	0.012	0.40	88.88	98.42	7.83	8.86	35.5	0.38	1009.75	1013.75	1008.95	1012.95	5.25	6.05	1012.73	1013.13	O	1019.00
				100	1.25		10.32	15.35	0.00	15.35		14.83		9.70	143.79									143.79			7.83	48.0	0.43										
	B6	0.603	0.87	10	1	5.00	7.35	3.86	0.00	3.86	17.595	15.31	6.97	6.79	103.94	B6	B5	HDPE	Round	60	218.04	0.012	0.25	103.94	141.81	7.22	7.87	37.8	0.46	1007.95	1012.95	1007.40	1012.40	6.05	6.60	1011.11	1011.51	O	1019.00
				100	1.25		10.32	6.23	0.00	6.23		17.59		9.56	168.24									168.24			7.22	60.0	0.50										
	B5	0.605	0.87	10	1	5.00	7.35	3.87	0.00	3.87	20.322	17.68	7.43	6.67	117.93	B5	B4	HDPE	Round	60	202.90	0.012	0.22	117.93	132.97	6.77	7.64	43.8	0.44	1007.30	1012.30	1006.85	1011.85	6.70	7.15	1010.96	1011.41	O	1019.00
				100	1.25		10.32	6.24	0.00	6.24		20.32		9.40	191.02									191.02			6.77	60.0	0.50										
	B4	0.398	0.87	10	1	5.00	7.35	2.55	0.00	2.55	23.362	20.32	7.88	6.56	133.33	B4	B3	HDPE	Round	60	243.35	0.012	0.29	133.33	151.44	7.71	8.69	43.2	0.47	1006.65	1011.65	1005.95	1010.95	7.35	5.05	1010.26	1010.72	O	1019.00
				100	1.25		10.32	4.11	0.00	4.11		23.36		9.25	216.08									216.08			7.71	60.0	0.53										
	B3	0.000	0.87	10	1	5.00	7.35	0.00	0.00	0.00	23.362	20.32	8.34	6.45	131.03	B3	B2	HDPE	Round	60	103.32	0.012	0.39	131.03	175.68	8.95	9.79	38.4	0.18	1005.70	1010.70	1005.30	1010.30	5.30	5.70	1008.91	1009.99	O	1016.00
				100	1.25		10.32	0.00	0.00	0.00		23.36		9.10	212.50									212.50			8.95	60.0	0.19										
	B2	0.000	0.87	10	1	5.00	7.35	0.00	0.00	0.00	23.362	20.32	8.52	6.41	130.19	B2	B1	HDPE	Round	60	37.51	0.012	0.27	130.19	145.79	7.42	8.38	43.8	0.07	1005.10	1010.10	1005.00	1010.00	5.90	0.00	1008.76	1009.74	O	1016.00
				100	1.25		10.32	0.00	0.00	0.00		23.36		9.04	211.18									211.18			7.42	60.0	0.08										
	B1																																						1010.00
C	C1	2.642	0.87	10	1	5.00	7.35	16.90	0.00	16.90	2.642	2.30	5.00	7.35	16.90	C1	B4	HDPE	Round	18	43.17	0.012	7.76	16.90	31.60	17.88	18.17	9.4	0.04	1013.00	1014.50	1009.65	1011.15	7.50	7.85	1013.99	1015.56	O	1022.00
				100	1.25		10.32	27.27	0.00	27.27		2.64		10.32	27.27									27.27			20.08	12.8	0.04										
	B4																																						1019.00
D	D1	2.122	0.87	10	1	5.00	7.35	13.58	0.00	13.58	2.122	1.85	5.00	7.35	13.58	D1	B5	HDPE	Round	18	42.50	0.012	5.88	13.58	27.51	15.57	15.43	8.8	0.05	1013.00	1014.50	1010.50	1012.00	7.50	7.00	1013.91	1014.93	O	1022.00
				100	1.25		10.32	21.91	0.00	21.91		2.12		10.32	21.91									21.91			17.25	12.1	0.04										
	B5																																						1019.00
E	E1	2.165	0.87	10	1	5.00	7.35	13.85	0.00	13.85	2.165	1.88	5.00	7.35	13.85	E1	B6	HDPE	Round	18	42.47	0.012	3.65	13.85	21.67	12.26	13.00	10.4	0.05	1013.00	1014.50	1011.45	1012.95	7.50	6.05	1014.04	1014.94	O	1022.00
				100	1.25		10.32	22.35	0.00	22.35		2.17		10.32	22.35									22.35			13.95	15.3	0.05										
	B6																																						1019.00
F	F1	1.726	0.87	10	1	5.00	7.35	11.04	0.00	11.04	1.726	1.50	5.00	7.35	11.04	F1	B7	HDPE	Round	18	41.00	0.012	1.83	11.04	15.34	8.68	9.41	11.2	0.07	1013.00	1014.50	1012.25	1013.75	7.50	5.25	1014.07	1014.55	O	1022.00
				100	1.25		10.32	17.82	0.00	17.82		1.73		10.32	17.82									17.82			8.68	18.0	0.08										
	B7																																						1019.00
G	G1	2.146	0.87	10	1	5.00	7.35	13.73	0.00	13.73	2.146	1.87	5.00	7.35	13.73	G1	B8	HDPE	Round	18	60.55	0.012	1.82	13.73	15.29	8.65	9.79	13.3	0.10	1014.00	1015.50	1012.90	1014.40	6.50	6.35	1015.28	1015.50	O	1022.00
				100	1.25		10.32	22.16	0.00	22.16		2.15		10.32	22.16									22.16			8.65	18.0	0.12										
	B8																																						1020.75
H	H1	2.363	0.87	10	1	5.00	7.35	15.11	0.00	15.11	2.363	2.06	5.00	7.35	15.11	H1	B9	HDPE	Round	18	94.71	0.012	3.43	15.11	21.01	11.89	12.89	11.2	0.12	1018.00	1019.50	1014.75	1016.25	3.05	11.10	1019.12	1018.26	I	1022.55
				100	1.25		10.32	24.39	0.00	24.39		2.36		10.32	24.39									24.39			11.89	18.0	0.13										
	B9																																						1027.35
BB	BB1	2.036	0.87	10	1	5.00	7.35	13.03	0.00	13.03	2.036	1.77	5.00	7.35	13.03	BB1	B11	HDPE	Round	18	80.00	0.012	3.13	13.03	20.05	11.35	12.03	10.4	0.11	1019.00	1020.50	1016.50	1018.00	2.05	8.40	1020.03	1019.62	I	1022.55
				100	1.25		10.32	21.02	0.00	21.02		2.04		10.32	21.02									21.02			12.86	15.7	0.10										
	B11																																						1026.40
J	J1	2.835	0.87	10	1	5.00	7.35	18.14	0.00	18.14	2.835	2.47	5.00	7.35	18.14	J1	B12	HDPE	Round	24	80.00	0.012	0.81	18.14	22.04	7.02	7.83	16.6	0.17	1018.50	1020.50	1017.85	1019.85	2.05	6.70	1019.95	1020.18	O	1022.55
				100	1.25		10.32	29.27	0.00	29.27		2.84		10.32	29.27									29.27			7.02	24.0	0.19										
	B12																																						1026.55
K	K11	4.390	0.87	10	1	5.00	7.35	28.08	0.00	28.08	4.390	3.82	5.00	7.35	28.08	K11	K10	HDPE	Round	30	107.80	0.012	0.42	28.08	28.66	5.84	6.66	24.0	0.27	1010.50	1013.00	1010.05	1012.55	2.45	4.60	1012.55	1012.74	O	1015.45
				100	1.25		10.32	45.31	0.00	45.31		4.39		10.32	45.31									45.31			5.84	30.0	0.31										
	K10	2.347	0.87	10	1	5.00	7.35	15.02	0.00	15.02	7.952	6.92	5.27	7.27	50.30	K10	K9	HDPE	Round	36	264.00	0.012	0.49	50.30	50.66	7.17	8.17	29.2	0.54	1009.55	1012.55	1008.25	1011.25	4.60	5.90	1012.02	1011.72	I	1017.15
				100	1.25		10.32	24.23	0.00	24.23		7.95		10.21	81.20									81.20			7.17	36.0	0.61										
	K9	2.698	0.87	10	1	5.00	7.35	17.26	0.00	17.26	13.618	11.85	5.81	7.11	84.25	K9	K8	HDPE	Round	48	264.00	0.012	0.30	84.25	85.66	6.82	7.77	38.4	0.57	1007.25	1011.25	1006.45	1010.45	5.90	6.70	1010.47	1010.59	O	1017.15
				100	1.25		10.32	27.85	0.00	27.85		13.62		10.00	136.13									136.13			6.82	48.0	0.65										
	K8	2.697	0.87	10	1	5.00	7.35	17.25	0.00	17.25	19.282	16.78	6.37	6.95	116.61	K8	K7	HDPE	Round	48	264.00	0.012	0.57	116.61	117.30	9.33	10.64	38.9	0.41	1006.35	1010.35	1004.85	1008.85	6.80	8.30	1009.62	1009.85	O	1017.15
				100	1.25		10.32	27.84	0.00	27.84		19.28		9.78	188.59									188.59			9.33	48.0	0.47										
	K7	2.697	0.87	10	1	5.00	7.35	17.25	0.00	17.25	24.947	21.70	6.79	6.84	148.43	K7	K6	HDPE	Round	60	264.00	0.012	0.28	148.43	150.50	7.66	8.74	48.0	0.50	1003.85	1008.85	1003.10	1008.10	8.30	9.05	1007.87	1008.28	O	1017.15
				100	1.25		10.32	27.84	0.00	27.84		24.95		9.63	240.20									240.20			7.66	60.0	0.57										
	K6	2.697	0.87	10	1	5.00	7.35	17.25	0.00	17.25	30.612	26.63	7.29	6.71	178.62	K6	K5	HDPE	Round	60	219.00	0.012	0.41	178.62	181.01	9.22	10.51	48.0	0.35	1003.00	1008.00	1002.10	1007.10	9.15	12.90	1007.02	1007.81	O	1017.15
				100	1.25		10.32	27.84	0.00	27.84		30.61		9.45	289.26									289.26			9.22	60.0	0.40										
	K5	1.074	0.87	10	1	5.00	7.35	6.87	0.00	6.87	27.505	23.93	7.29	6.71	160.49	K5	K4	HDPE	Round	60	45.01	0.012	0.44	160.49	188.21	9.59	10.73	42.0	0.07	1002.00	1007.00	1001.80	1006.80	10.15	13.20	1005.52	1007.09	O	1017.15
				100	1.25		10.32	11.09	0.00	11.09		27.50		9.45	259.90									259.90			9.59	60.0	0.08										
	K4	2.220	0.87	10	1	5.00	7.35	14.20	0.00	14.20	39.088	34.01	7.64	6.62	225.09	K4	K3	HDPE	Round	66	289.30	0.012	0.52	225.09	262.23	11.04	12.40	46.9	0.39	1001.30	1006.80	999.80	1005.30	13.20	13.70	1005.22	1006.09	O	1020.00
				100	1.25		10.32	22.92	0.00	22.92		39.09		9.33	364.68									364.68			11.04	66.0	0.44										
	K3	1.550	0.87	10	1	5.00	7.35	9.92	0.00	9.92	42.158	36.68	8.03	6.52	239.25	K3	K2	HDPE	Round	72	402.94	0.012	0.29	239.25	245.44	8.68	9.89	56.9	0.68	999.30	1005.30	998.15	1004.15	13.70	11.10	1004.05	1004.41	O	1019.00
				100	1.25		10.32	16.00	0.00	16.00		42.16		9.20	387.83									387.83			8.68	72.0	0.77										
	K2	0.000	0.87	10	1	5.00	7.35	0.00	0.00	0.00	42.158	36.68	8.71	6.36	233.34	K2	K1	HDPE	Round	72	198.09	0.012	0.28	233.34	242.08	8.56	9.74	56.2	0.34	997.55	1003.95	997.40	1003.40	11.30	0.10	1002.64	1003.55	O	1015.25
				100	1.25		10.32	0.00	0.00	0.00		42.16		8.98	378.59									378.59			8.56	72.0	0.39										
	K1																																						1003.50
L	L4	0.313	0.87	10	1	5.00	7.35	2.00	0.00	2.00	0.313	0.27	5.00	7.35	2.00	L4	L3	HDPE	Round	15	212.23	0.012	0.35	2.00	4.14	3.38	3.35	7.4	1.06	1015.75	1017.00	1015.00	1016.25	2.50	3.25	1016.41	1015.79	I	1019.50
				100	1.25		10.32	3.23	0.00	3.23		0.31		10.32	3.23									3.23			3.73	9.9	0.95										
	L3	0.358	0.87	10	1	5.00	7.35	2.29	0.00	2.29	0.358	0.31	5.00	7.35	2.29	L3	L2	HDPE	Round	15	211.77	0.012	0.28	2.29	3.71	3.02	3.16	8.4	1.12	1014.90	1016.15	1014.30	1015.55	3.35	3.95	1015.66	1015.16	I	1019.50
				100	1.25		10.32	3.70	0.00	3.70		0.36		10.32	3.70									3.70			3.45	12.2	1.02										
	L2	0.268	0.87	10	1	5.00	7.35	1.71	0.00	1.71	0.581	0.51	6.06	7.04	3.56	L2	L1	HDPE	Round	15	66.09	0.012	0.61	3.56	5.42	4.42	4.71	8.9	0.23	1014.20	1015.45	1013.80	1015.05	4.05	5.10	1015.03	1014.88	I	1019.50
				100	1.25		10.32	2.76	0.00	2.76		0.58		9.90	5.75									5.75			5.00	13.2	0.22										
	L1	0.940	0.87	10	1	5.00	7.35	6.01	0.00	6.01	1.521	1.32	6.29	6.97	9.23	L1	K3	HDPE	Round	18	255.97	0.012	2.75	9.23	18.82	10.65	10.56	8.8	0.40	1013.05	1014.55	1006.00	1007.50	5.60	11.50	1013.90	1008.47	I	1020.15
				100	1.25		10.32	9.70	0.00	9.70		1.52		9.81	14.92									14.92			11.81	12.1	0.36										
	K3																																						1019.00

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Sheet
C25

Preliminary Site Plan

17-0272
Project Mustang

Storm Drainage Calculations

NO.	BY	DESCRIPTION	DATE
	JWD	PER CITY COMMENTS	02/01/18
	JWD	ORIGINAL SUBMITTAL	12/18/17
	PKC	RECISION	DATE

Renaissance Infrastructure Consulting
5016 NW CANAL STREET, SUITE 100
RIVERSIDE, MISSOURI 64150
816.800.0950
WWW.RIC-CONSULT.COM

PATRICK N. CASEY
LICENSED
24975
KANSAS
PROFESSIONAL ENGINEER

	Overland Flow										System Flow					Pipe Design																	Structure Design			
Line	Point	Trib. Area (Ac.)	"C" Value	Design Storm	"K" Value	Time of Conc. (min.)	Intensity i (in./hr.)	Trib Runoff (cfs)	Bypass flow (cfs)	Total Runoff (cfs)	Total Area (Ac.)	Total (K*A*C)	Time of Conc. (min.)	Intensity i (in./hr.)	System Discharge (cfs)	U/S Node	D/S Node	Pipe Type	Pipe Shape	Pipe Diameter (in.)	Pipe Length (ft.)	Mannings "n" value	Pipe Slope (%)	Design Flow (cfs)	Pipe Capacity (cfs)	Full Flow Velocity (fps)	Design Flow Velocity (fps)	Depth of Flow (in.)	Flow Time (min.)	U/S Invert El.	U/S Crown El.	D/S Invert El.	D/S Crown El.	U/S Depth of Cover (ft.)	D/S Depth of Cover (ft.)	Headwater Inlet Elev. (EGL)	Headwater Outlet Elev. (EGL)	Inlet/Outlet Control	Top Elevation
M	M2	1.484	0.87	10	1	5.00	7.35	9.49	0.00	9.49	1.484	1.29	5.00	7.35	9.49	M2	M1	HDPE	Round	18	98.96	0.012	1.82	9.49	15.30	8.66	9.12	10.3	0.18	1012.20	1013.70	1010.40	1011.90	2.00	4.25	1013.17	1012.55	I	1015.70
				100	1.25		10.32	15.32	0.00	15.32		1.48		10.32	15.32									15.32			9.87	14.8	0.17										
	M1	4.772	0.87	10	1	5.00	7.35	30.53	0.00	30.53	6.256	5.44	5.18	7.30	39.72	M1	K4	HDPE	Round	24	65.39	0.012	6.88	39.72	64.14	20.42	21.37	13.4	0.05	1009.90	1011.90	1005.40	1007.40	4.25	9.75	1011.18	1013.61	O	1016.15
				100	1.25		10.32	49.26	0.00	49.26		6.26		10.25	64.11									64.11			23.28	19.4	0.05										
	K4																																						1017.15
N	N2	1.484	0.87	10	1	5.00	7.35	9.49	0.00	9.49	1.484	1.29	5.00	7.35	9.49	N2	N1	HDPE	Round	18	132.00	0.012	1.52	9.49	13.96	7.90	8.47	10.8	0.26	1012.45	1013.95	1010.45	1011.95	1.75	3.75	1013.47	1012.46	I	1015.70
				100	1.25		10.32	15.32	0.00	15.32		1.48		10.32	15.32									15.32			7.90	18.0	0.28										
	N1	1.484	0.87	10	1	5.00	7.35	9.49	0.00	9.49	2.968	2.58	5.26	7.27	18.78	N1	K6	HDPE	Round	24	55.00	0.012	1.36	18.78	28.55	9.09	9.69	14.2	0.09	1010.00	1012.00	1009.25	1011.25	3.70	5.90	1011.25	1011.89	O	1015.70
				100	1.25		10.32	15.32	0.00	15.32		2.97		10.22	30.32									30.32			10.25	21.4	0.09										
	K6																																						1017.15
O	O2	1.484	0.87	10	1	5.00	7.35	9.49	0.00	9.49	1.484	1.29	5.00	7.35	9.49	O2	O1	HDPE	Round	18	132.00	0.012	1.48	9.49	13.79	7.80	8.37	10.8	0.26	1012.45	1013.95	1010.50	1012.00	1.75	3.70	1013.47	1012.49	I	1015.70
				100	1.25		10.32	15.32	1.53	16.85		1.48		10.32	15.32									15.32			7.80	18.0	0.28										
	O1	1.484	0.87	10	1	5.00	7.35	9.49	0.00	9.49	2.968	2.58	5.26	7.27	18.78	O1	K7	HDPE	Round	24	56.21	0.012	1.33	18.78	28.24	8.99	9.59	14.2	0.10	1010.00	1012.00	1009.25	1011.25	3.70	5.90	1011.25	1011.86	O	1015.70
				100	1.25		10.32	15.32	0.00	15.32		2.97		10.21	30.31									30.31			10.07	21.8	0.09										
	K7																																						1017.15
P	P2	1.484	0.87	10	1	5.00	7.35	9.49	0.00	9.49	1.484	1.29	5.00	7.35	9.49	P2	P1	HDPE	Round	18	132.00	0.012	1.48	9.49	13.79	7.80	8.37	10.8	0.26	1012.45	1013.95	1010.50	1012.00	1.75	3.70	1013.47	1012.49	I	1015.70
				100	1.25		10.32	15.32	0.00	15.32		1.48		10.32	15.32									15.32			7.80	18.0	0.28										
	P1	1.484	0.87	10	1	5.00	7.35	9.49	0.00	9.49	2.968	2.58	5.26	7.27	18.78	P1	K8	HDPE	Round	24	55.00	0.012	1.36	18.78	28.55	9.09	9.69	14.2	0.09	1010.00	1012.00	1009.25	1011.25	3.70	5.90	1011.25	1011.89	O	1015.70
				100	1.25		10.32	15.32	0.00	15.32		2.97		10.21	30.31									30.31			10.25	21.4	0.09										
	K8																																						1017.15
Q	Q2	1.484	0.87	10	1	5.00	7.35	9.49	0.00	9.49	1.484	1.29	5.00	7.35	9.49	Q2	Q1	HDPE	Round	18	132.00	0.012	1.48	9.49	13.79	7.80	8.37	10.8	0.26	1012.45	1013.95	1010.50	1012.00	1.75	3.70	1013.47	1012.49	I	1015.70
				100	1.25		10.32	15.32	1.53	16.85		1.48		10.32	15.32									15.32			7.80	18.0	0.28										
	Q1	1.484	0.87	10	1	5.00	7.35	9.49	0.00	9.49	2.968	2.58	5.26	7.27	18.78	Q1	K9	HDPE	Round	24	55.00	0.012	0.91	18.78	23.31	7.42	8.22	16.1	0.11	1010.00	1012.00	1009.50	1011.50	3.70	5.65	1011.41	1011.89	O	1015.70
				100	1.25		10.32	15.32	0.00	15.32		2.97		10.21	30.32									30.32			7.42	24.0	0.12										
	K9																																						1017.15
R	R1	1.215	0.87	10	1	5.00	7.35	7.77	0.00	7.77	1.215	1.06	5.00	7.35	7.77	R1	K10	HDPE	Round	24	55.00	0.012	1.27	7.77	27.58	8.78	7.51	8.6	0.12	1011.20	1013.20	1010.50	1012.50	2.50	4.65	1011.95	1012.10	O	1015.70
				100	1.25		10.32	12.54	0.00	12.54		1.22		10.32	12.54									12.54			8.55	11.3	0.11										
	K10																																						1017.15
S	S5	0.550	0.87	10	1	5.00	7.35	3.52	0.00	3.52	0.550	0.48	5.00	7.35	3.52	S5	S4	HDPE	Round	15	128.38	0.012	1.91	3.52	9.63	7.85	7.17	6.2	0.30	1016.20	1017.45	1013.75	1015.00	5.50	2.50	1016.80	1015.06	I	1022.95
				100	1.25		10.32	5.68	0.00	5.68		0.55		10.32	5.68									5.68			8.16	8.3	0.26										
	S4	0.000	0.87	10	1	5.00	7.35	0.00	0.00	0.00	1.121	0.98	5.00	7.35	7.17	S4	S3	HDPE	Round	15	56.44	0.012	13.73	7.17	25.83	21.05	18.01	5.4	0.05	1013.25	1014.50	1005.50	1006.75	3.00	9.55	1013.89	1010.98	I	1017.50
				100	1.25		10.32	0.00	0.00	0.00		1.12		10.32	11.57									11.57			20.29	6.9	0.05										
	S3	0.605	0.87	10	1	5.00	7.35	3.87	0.00	3.87	1.726	1.50	5.30	7.26	10.91	S3	S2	HDPE	Round	15	39.17	0.012	14.55	10.91	26.59	21.67	20.47	6.6	0.03	1005.00	1006.25	999.30	1000.55	10.05	4.95	1005.83	1006.35	O	1016.30
				100	1.25		10.32	6.25	0.00	6.25		1.73		10.20	17.61									17.61			23.11	8.9	0.03										
	S2	0.605	0.87	10	1	5.00	7.35	3.87	0.00	3.87	2.331	2.03	5.05	7.34	14.88	S2	S1	HDPE	Round	30	22.74	0.012	0.44	14.88	29.42	5.99	5.99	15.0	0.06	998.10	1000.60	998.00	1000.50	4.90	0.00	999.37	999.81	O	1005.50
				100	1.25		10.32	6.25	0.00	6.25		2.33		10.30	24.01									24.01			6.67	20.4	0.06										
	S1																																						1000.50
T	T1	0.571	0.87	10	1	5.00	7.35	3.65	0.00	3.65	0.571	0.50	5.00	7.35	3.65	T1	S4	HDPE	Round	15	78.68	0.012	3.11	3.65	12.30	10.02	8.70	5.6	0.15	1016.20	1017.45	1013.75	1015.00	5.50	2.50	1016.76	1015.39	I	1022.95
				100	1.25		10.32	5.90	0.00	5.90		0.57		10.32	5.90									5.90			9.85	7.2	0.13										
	S4																																						1017.50
U	U7	20.648	0.87	10	1	5.00	7.35	132.09	0.00	132.09	20.648	17.96	5.00	7.35	132.09	U7	U6	HDPE	Round	60	37.23	0.012	1.75	132.09	373.07	19.00	17.35	24.6	0.04	1015.05	1020.05	1014.40	1019.40	0.00	4.80	1017.11	1021.12	O	1020.05
				100	1.25		10.32	213.14	0.00	213.14		20.65		10.32	213.14									213.14			19.61	32.4	0.03										
	U6	0.000	0.87	10	1	5.00	7.35	0.00	0.00	0.00	20.648	17.96	5.04	7.34	131.89	U6	U5	HDPE	Round	60	181.88	0.012	0.41	131.89	181.31	9.23	10.06	37.8	0.30	1009.00	1014.00	1008.25	1013.25	10.20	11.35	1012.16	1012.97	O	1024.20
				100	1.25		10.32	0.00	0.00	0.00		20.65		10.31	212.83									212.83			9.23	60.0	0.33										
	U5	0.782	0.87	10	1	5.00	7.35	5.00	0.00	5.00	21.430	18.64	5.34	7.25	135.17	U5	U4	HDPE	Round	60	261.57	0.012	0.25	135.17	140.75	7.17	8.16	46.8	0.53	1008.15	1013.15	1007.50	1012.50	11.45	4.50	1012.06	1012.43	O	1024.60
				100	1.25		10.32	8.07	0.00	8.07		21.43		10.18	218.24									218.24			7.17	60.0	0.61										
	U4	0.000	0.87	10	1	5.00	7.35	0.00	0.00	0.00	22.849	19.88	5.87	7.09	141.00	U4	U3	HDPE	Round	60	313.61	0.012	2.68	141.00	462.11	23.53	20.42	22.2	0.26	1007.40	1012.40	999.00	1004.00	4.60	3.00	1009.26	1007.32	I	1017.00
				100	1.25		10.32	0.00	0.00	0.00		22.85		9.97	227.85									227.85			23.33	29.4	0.22										
	U3	0.321	0.87	10	1	5.00	7.35	2.05	0.00	2.05	23.170	20.16	6.13	7.02	141.51	U3	U2	HDPE	Round	60	35.57	0.012	0.56	141.51	211.72	10.78	11.50	35.4	0.05	998.50	1003.50	998.30	1003.30	3.50	3.20	1001.46	1003.30	O	1007.00
				100	1.25		10.32	3.31	0.00	3.31		23.17		9.87	228.77									228.77			10.78	60.0	0.05										
	U2	0.478	0.87	10	1	5.00	7.35	3.06	0.00	3.06	23.648	20.57	6.18	7.01	144.14	U2	U1	RCP	Round	60	34.11	0.013	0.59	144.14	199.58	10.16	11.02	37.2	0.05	998.00	1003.00	997.80	1002.80	3.50	0.00	1001.11	1002.78	O	1006.50
				100	1.25		10.32	4.94	0.00	4.94		23.65		9.85	233.03									233.03			10.16	60.0	0.06										
	U1																																						1002.80
V	V2	0.985	0.87	10	1	5.00	7.35	6.30	0.00	6.30	0.985	0.86	5.00	7.35	6.30	V2	V1	HDPE	Round	15	293.00	0.012	1.54	6.30	8.64	7.04	7.67	9.5	0.64	1019.50	1020.75	1015.00	1016.25	2.80	8.40	1020.45	1016.70	I	1023.55
				100	1.25		10.32	10.17	0.00	10.17		0.99		10.32	10.17									10.17			7.04	15.0	0.69										
	V1	0.434	0.87	10	1	5.00	7.35	2.78	0.00	2.78	1.419	1.23	5.64	7.16	8.84	V1	U4	HDPE	Round	15	46.05	0.012	5.97	8.84	17.03	13.88	14.00	7.7	0.05	1014.00	1015.25	1011.25	1012.50	9.40	4.50	1014.87	1014.93	O	1024.65
				100	1.25		10.32	4.48	0.00	4.48		1.42		10.06	14.28									14.28			15.54	10.5	0.05										
	U4																																						1017.00
W	W10	20.380	0.87	10	1	5.00	7.35	130.37	0.00	130.37	20.380	17.73	5.00	7.35	130.37	W10	W9	HDPE	Round	60	48.63	0.012	0.62	130.37	221.77	11.29	11.74	33.0	0.07	1015.00	1020.00	1014.70	1019.70	3.40	3.70	1017.76	1019.59	O	1023.40
				100	1.25		10.32	210.37	0.00	210.37		20.38		10.32	210.37									210.37			12.84	46.2	0.06										
	W9	0.000	0.87	10	1	5.00	7.35	0.00	0.00	0.00	20.380	17.73	5.07	7.33	129.99	W9	W8	HDPE	Round	60	248.24	0.012	0.40	129.99	179.21	9.13	9.94	37.8	0.42	1009.00	1014.00	1008.00	1013.00	9.40	14.50	1012.16	1012.68	O	1023.40
				100	1.25		10.32	0.00	0.00	0.00		20.38		10.29	209.79									209.79			9.13	60.0	0.45										
	W8	0.000	0.87	10	1	5.00	7.35	0.00	0.00	0.00	41.090	35.75	5.49	7.21	257.60	W8	W7	RCP	Round	66	220.02	0.013	0.55	257.60	248.26	10.45	11.89	56.1	0.31	1007.50	1013.00	1006.30	1011.80	14.50	15.40	1012.19	1013.17	O	1027.50
				100	1.25		10.32	0.00	0.00	0.00		41.09		10.12	416.02									416.02			10.45	66.0	0.35										
	W7	0.430	0.87	10	1	5.00	7.35	2.75	0.00	2.75	41.520	36.12	5.79	7.12	257.03	W7	W6	RCP	Round	72	81.58	0.013	0.49	257.03	296.95	10.50	11.80	51.1	0.12	1005.80	1011.80	1005.40	1011.40	15.40	15.80	1010.07	1011.82	O	1027.20
				100	1.25		10.32	4.44	0.00	4.44		41.52		10.00	415.30									415.30			10.50	72.0	0.13										
	W6	0.390	0.87	10	1	5.00	7.35	2.49	0.00	2.49	41.910	36.46	5.91	7.08	258.24	W6	W5	RCP	Round	72	130.05	0.013	0.38	258.24	262.95	9.30	10.60	57.6	0.20	1005.30	1011.30	1004.80	1010.80	15.90	16.40	1010.11	1011.34	O	1027.20
				100	1.25		10.32	4.03	0.00	4.03		41.91		9.96	417.32									417.32			9.30	72.0	0.23										
	W5	0.390	0.87	10	1	5.00	7.35	2.49	0.00	2.49	42.300	36.80	6.11	7.02	258.50	W5	W4	RCP	Round	72	130.05	0.013	0.54	258.50	311.13	11.00	12.28	49.7	0.18	1004.70	1010.70	1004.00	1010.00	16.50	17.20	1008.85	1010.48	O	1027.20
				100	1.25		10.32	4.03	0.00	4.03		42.30		9.88	417.88									417.88			11.00	72.0	0.20										
	W4	0.390	0.87	10	1	5.00	7.35	2.49	0.00	2.49	44.740	38.92	6.29	6.97	271.49	W4	W3	RCP	Round	72	286.22	0.013	0.66	271.49	345.52	12.22	13.49	47.5	0.35	1003.90	1009.90	1002.00	1008.00	17.30	10.50	1007.87	1008.79	O	1027.20
				100	1.25		10.32	4.03	0.00	4.03		44.74		9.81	439.00									439.00			12.22	72.0	0.39										
	W3	1.950	0.87	10	1	5.00	7.35	12.47	0.00	12.47	67.410	58.65	6.64	6.88	403.37	W3	W2	RCP	Round	72	69.24	0.013	2.74	403.37	702.50	24.85	25.64	38.9	0.05	1001.90	1007.90	1000.00	1006.00	10.60	-8.00	1005.16	1013.45	O	1018.50
				100	1.25		10.32	20.13	0.00	20.13		67.41		9.98	652.60									652.60			28.21	54.7	0.04										
	W2	0.000	0.87	10	1	5.00	7.35	0.00	0.00	0.00	88.130	76.67	6.69	6.87	526.42	W2	W1	RCP	Round	72	69.24	0.013	1.44	526.42	509.65	18.03	20.50	61.2	0.06	976.00	982.00	975.00	981.00	16.00	0.00	981.13	986.63	O	998.00
				100	1.25		10.32	0.00	0.00	0.00		88.13		9.66	851.74									851.74			18.03	72.0	0.06										
	W1																																						981.00
	X1	20.710	0.87	10	1	5.00	7.35	132.48	0.00	132.48	20.710	18.02	5.00	7.35	132.48	X1	W8	HDPE	Round	60	82.86	0.012	1.21	132.48	310.18	15.80	15.08	27.0	0.09	1007.50	1012.50	1006.50	1011.50	11.90	7.00	1009.76	1012.28	O	1024.40
				100	1.25		10.32	213.78	0.00	213.78		20.71		10.32	213.78									213.78			17.03	36.6	0.08										
	W8																																						1018.50
Y	Y1	2.050	0.87	10	1	5.00	7.35	13.11	0.00	13.11	2.050	1.78	5.00	7.35	13.11	Y1	W4	HDPE	Round	24	288.14	0.012	0.49	13.11	17.04	5.43	5.96	15.6	0.81	1015.40	1017.40	1014.00	1016.00	2.00	11.20	1016.75	1015.85	I	1019.40
				100	1.25		10.32	21.16	0.00	21.16		2.05		10.32	21.16									21.16			5.43	24.0	0.89										
	W4																																						1027.20

Sheet
C26

Preliminary Site Plan

17-0272
Project Mustang

NO.	BY	DESCRIPTION	DATE
	JWD	PER CITY COMMENTS	02/01/18
	JWD	PHC ORIGINAL SUBMITTAL	12/18/17
	BSK	CDD REVISION	

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PROFESSIONAL ENGINEER

Storm Drainage Calculations

Jan 31, 2018-4:09pm
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Property Line

2 Transformers

2 Switch Gear

Detail

Future Public Sanitary Sewer Main

Public Sanitary Sewer Main Extension (By Others)

Phase II Sanitary Sewer Service Off Future Public Main

Basin Outline

Tract Line

Future Public Sanitary Sewer Main

Proposed Storm Sewer (Typ)

100 Year Flood Elevation

100 Year Flood Elevation

Floodway

Floodway

Public Sanitary Sewer Main Extension (By Others)

Sanitary Sewer Service

Public Sanitary Sewer Main Extension (By Others)

Property Line

Sanitary Sewer Service

Basin Outline

Tract Line

Proposed Fireloop (Typ)

Proposed Roof Drain (Typ)

Proposed Fire Hydrant (Typ)

Building 2
Approx. 1,005,000 SF
F.F.E=1022.00

See Detail

See Detail

Building 1
Approx. 1,010,000 SF
F.F.E=1030.00

Phase II Fireloop

Phase II Fireloop

Proposed Fireline (Typ)

Phase II Fire Hydrant (Typ.)

Proposed Domestic Service (Typ)

Proposed Telephone Service
Proposed Gas Service
Proposed Fire Protection Service
Proposed Domestic Service

Building 3
Approx. 1,000,000 SF
F.F.E=1030.00

Proposed Electrical Service

Extra Conduit

Proposed Telephone Service

Proposed Fireline (Typ)

Proposed Domestic Service (Typ)

4" Conduit (Typ)

Proposed Underground Power (Typ)

Proposed Underground Telephone (Typ)

Proposed Underground Gas (Typ)

Proposed Fireloop (Typ)

207th Street

Proposed Domestic Water Service (Typ)

Utility Extensions To Serve The Site (By Others)

N O R T H

1"=100'

0 50' 100'

Sheet
C27

Preliminary Site Plan

17-0272
Project Mustang

Overall Site Utility Plan

NO.	BY	DATE
1	JWD	02/01/18
2	PHC	12/19/17
3	PHC	12/04/17

PER CITY COMMENTS
ORIGINAL SUBMITTAL
REVISIONS

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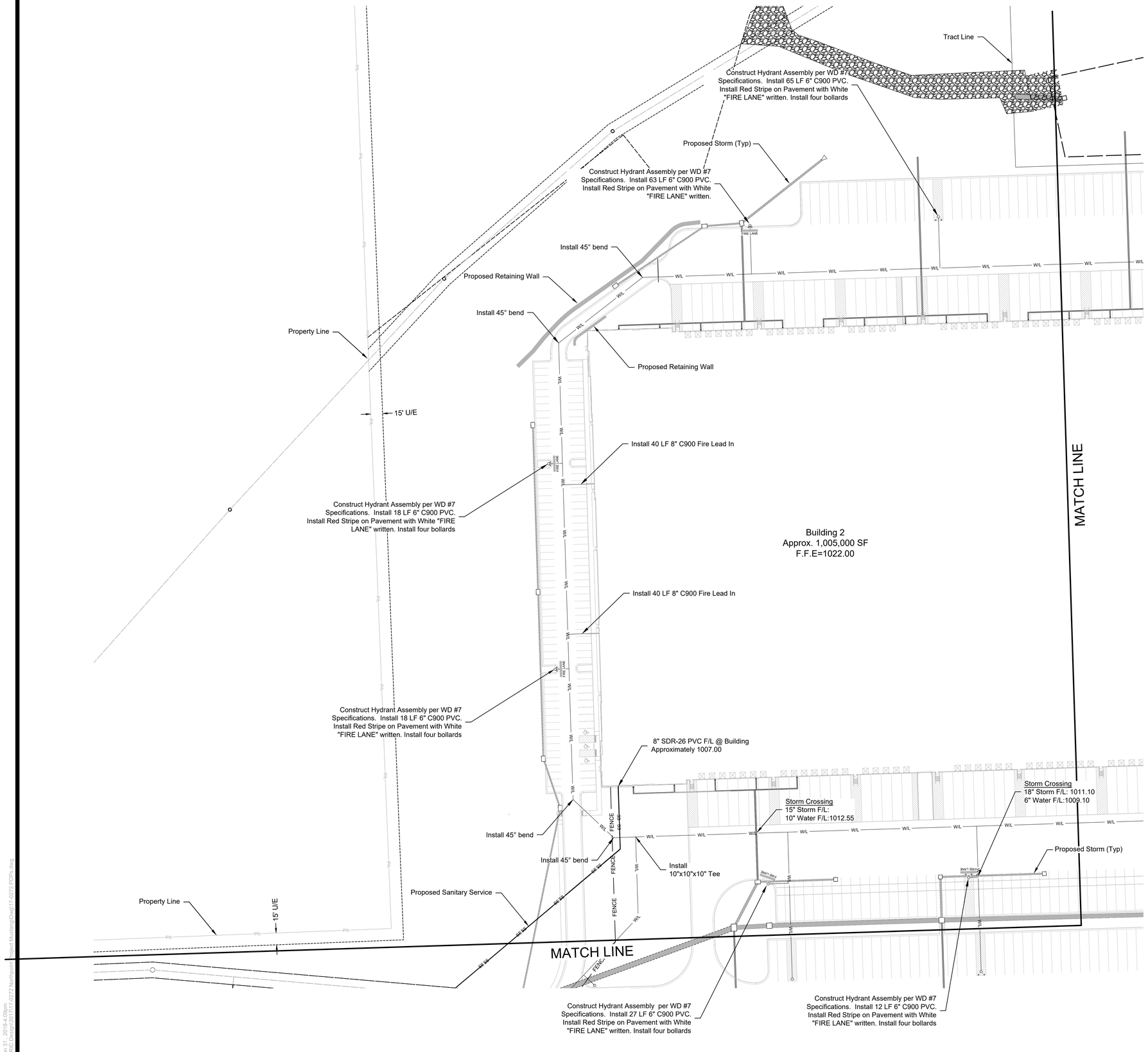

NW Layout | NE Layout | SW Layout | SE Layout

Sheet Index
(Not to Scale)

LEGEND

- Proposed Storm Sewer
- Proposed Storm Structure
- Proposed Fire Hydrant
- WATER — Proposed Waterline
- Proposed Sanitary Sewer
- Proposed Sanitary Manhole
- UGP — Proposed Underground Power
- GAS — Proposed Gas Line
- UGT — Proposed Underground Telephone

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C28

Preliminary Site Plan

17-0272
Project Mustang

Site Utility Plan
Northwest

NO.	BY	DATE	REVISION
1	JWD	03/01/18	PER CITY COMMENTS
2	JWD	12/19/17	ORIGINAL SUBMITTAL

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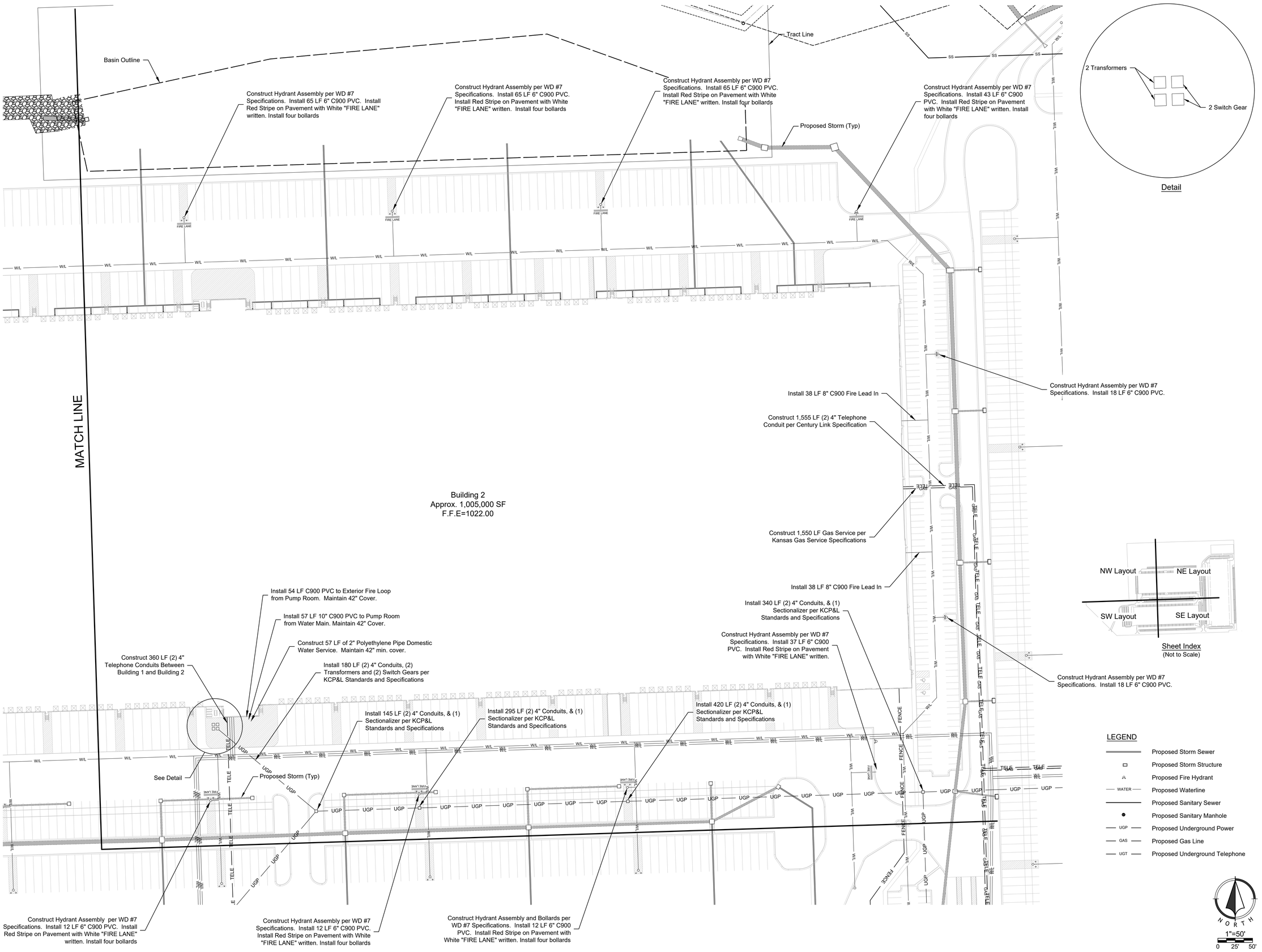

Sheet
C29

Preliminary Site Plan

17-0272
Project Mustang

Site Utility Plan
Northeast

NO.	BY	DESCRIPTION	DATE
	JWD	PER CITY COMMENTS	02/01/18
	PWC	ORIGINAL SUBMITTAL	12/19/17
	PWC	REVISION	DATE

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Sheet
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Preliminary Site Plan

17-0272
Project Mustang

Site Utility Plan
Southwest

Construct Hydrant Assembly and Bollards per WD #7 Specifications. Install 187 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written. Install four bollards

Proposed Public Sanitary Sewer Manhole (By Others)

Connect to public sanitary stub.

Property Line

Sta. 0+00.00
Connect to public sanitary stub.

See Sanitary Profile sheets for more information

MATCH LINE

15' U/E

Proposed Public Sanitary Sewer Main (By Others)

Crossing
66" RCP F/L=991.25
8" SDR-26 PVC=1008.00

Install 45° bend

20' SS/E

Proposed Storm (Typ)

Tract Line

Construct Hydrant Assembly and Bollards per WD #7 Specifications. Install 90 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written.

8" SDR-26 PVC F/L @ Building
Approximately 1017.00

Install 45° bend

Install 45° bend (Typ.)

Install 44 LF 8" C900 Fire Lead In

Construct Hydrant Assembly per WD #7 Specifications. Install 18 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written.

Building 1
Approx. 1,010,000 SF
F.F.E=1030.00

Basin Outline

Construct Hydrant Assembly per WD #7 Specifications. Install 18 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written.

Construct Hydrant Assembly per WD #7 Specifications. Install 9 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written.

Install 3,914 LF 10" C900 PVC As Shown. Maintain 42" Cover.

Water Feature Outline

Proposed Storm (Typ)

Construct Hydrant Assembly per WD #7 Specifications. Install 18 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written.

Future Homestead Lane (By Others)

15' U/E

Existing R/W Line

207th Street

Existing Section Line

Existing R/W Line

Existing Overhead Power

Existing Driveway (Typ.)

Existing Property Line (Typ.)

Existing Waterline

Construct Hydrant Assembly and Bollards per WD #7 Specifications. Install 70 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written. Install four bollards

NW Layout | NE Layout | SW Layout | SE Layout

Sheet Index
(Not to Scale)

LEGEND

- Proposed Storm Sewer
- Proposed Storm Structure
- Proposed Fire Hydrant
- WATER — Proposed Waterline
- Proposed Sanitary Sewer
- Proposed Sanitary Manhole
- UGP — Proposed Underground Power
- GAS — Proposed Gas Line
- UGT — Proposed Underground Telephone

NORTH

1"=50'
0 25' 50'

NO.	BY	DATE
1	JWD	02/01/18
2	PMC	03/19/18
3	PMC	03/29/18

REVISION
PER CITY COMMENTS
ORIGINAL SUBMITTAL

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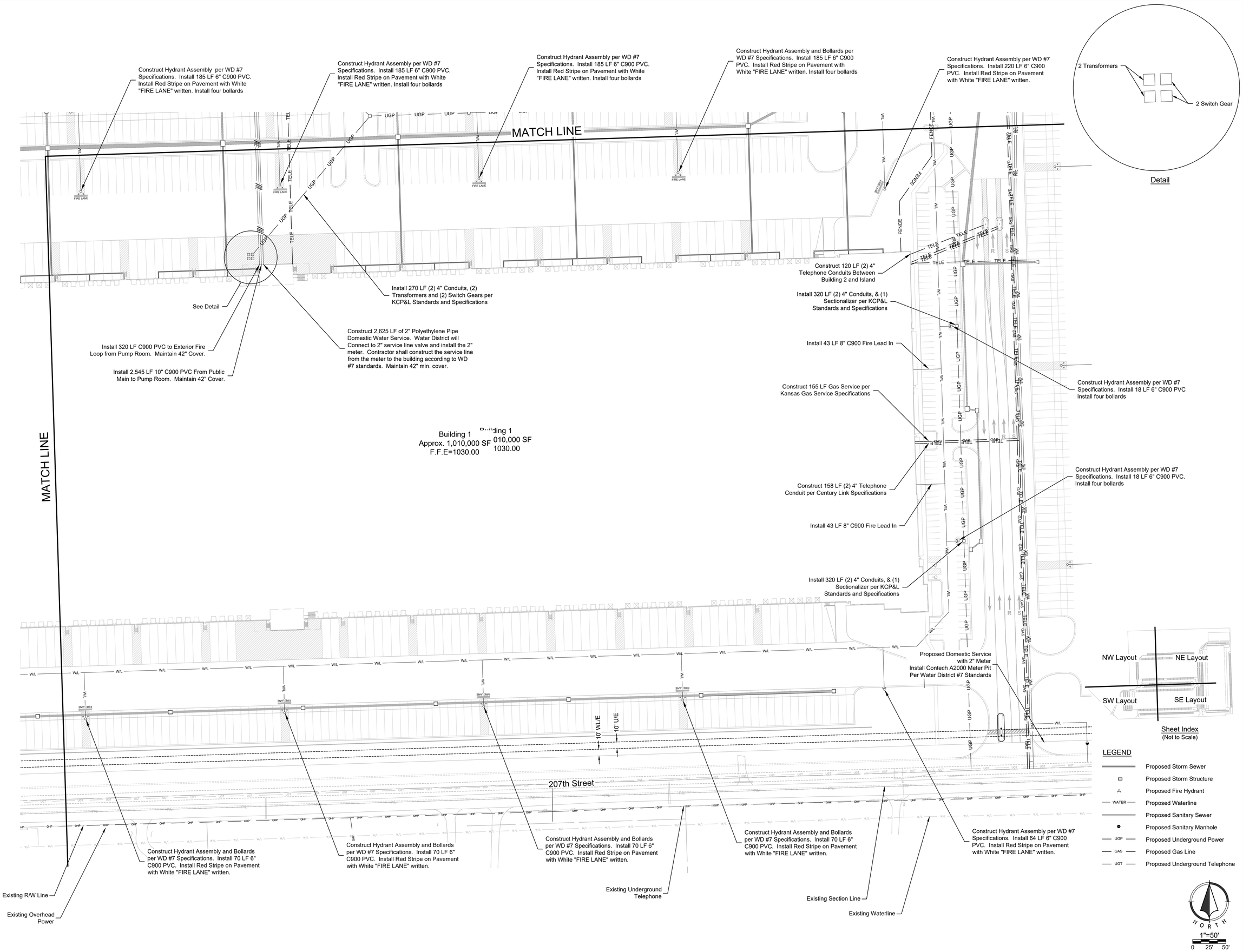

Sheet
C31

Preliminary Site Plan

17-0272
Project Mustang

Site Utility Plan
Southeast

NO.	BY	CK'D	DATE
	JWD	PMC	12/19/17
	AWD	PMC	02/01/18

PER CITY COMMENTS
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Sheet
C32

Preliminary Site Plan

17-0272
Project Mustang

Site Utility Plan
East

Construct Hydrant Assembly per WD #7 Specifications. Install 10 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written.

Construct Hydrant Assembly per WD #7 Specifications. Install 63 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written. Install four bollards

Existing R/W Line

℄ Future 207th St. Drive (By Others)

Property Line

15' U/E

Construct Hydrant Assembly per WD #7 Specifications. Install 10 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written.

Install 44 LF 8" C900 Fire Lead In

30'

Edge of Existing 207th St.

Building 3
Approx. 1,000,000 SF
F.F.E=1030.00

Construct 208 LF Gas Service per Kansas Gas Service Specifications

Construct 205 LF (2) 4" Telephone Conduits Between Building 2 and Island

Construct 192 LF of 10" C900 Fireline Per Water District #7 Standards

Construct 192 LF of 2" Polyethylene Pipe Domestic Water Service Per Water District #7 Standards

Install 320 LF C900 PVC to Exterior Fire Loop from Pump Room. Maintain 42" Cover.

Install 290 LF (2) 4" Conduits, (2) Transformers and (2) Switch Gears per KCP&L Standards and Specifications

Construct Hydrant Assembly per WD #7 Specifications. Install 20 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written. Install four bollards

Proposed R/W Line

Section Line

Construct Hydrant Assembly per WD #7 Specifications. Install 63 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written. Install four bollards

Install 44 LF 8" C900 Fire Lead In

℄ Ex. 207th St.

40' Ex. R/W

80' Pro. R/W

Construct Hydrant Assembly per WD #7 Specifications. Install 12 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written.

Sanitary Sewer Service

Construct Hydrant Assembly per WD #7 Specifications. Install 63 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written. Install four bollards

Construct Hydrant Assembly per WD #7 Specifications. Install 63 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written. Install four bollards

MATCH LINE

Property Line

15' U/E

20' SS/E

65'

Construct Hydrant Assembly per WD #7 Specifications. Install 63 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written. Install four bollards

Construct Hydrant Assembly per WD #7 Specifications. Install 63 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written. Install four bollards

Construct Hydrant Assembly per WD #7 Specifications. Install 63 LF 6" C900 PVC. Install Red Stripe on Pavement with White "FIRE LANE" written. Install four bollards

Connect to Public Main
Install 467 LF 8" SDR-26 PVC to Building

NW Layout | NE Layout | E Layout | SW Layout | SE Layout

Sheet Index
(Not to Scale)

Paving Schedule

5" Asphaltic Concrete Pavement

7" Asphaltic Concrete Pavement

8" Portland Concrete Pavement and 4" Concrete Sidewalk

Legend

- (00) Employee Parking
- (T00) Trailer Parking
- (D00) Truck Dock
- (H0) ADA Parking
- Set ½" x 24" Rebar w/ RIC KSCLS 234 Cap

NORTH
1"=80'
0 40' 80'

NO.	BY	DESCRIPTION	DATE
1	JWD	PER CITY COMMENTS	03/01/18
2	PWC	ORIGINAL SUBMITTAL	12/19/17
	JWD	REVISION	

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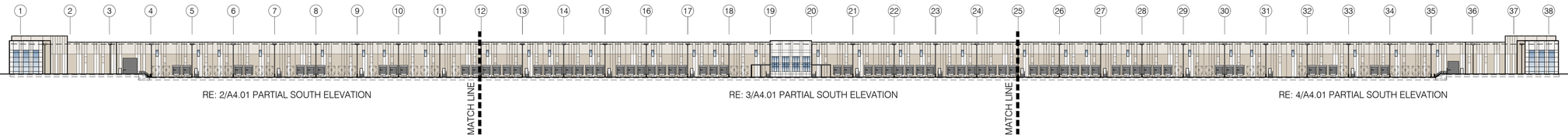
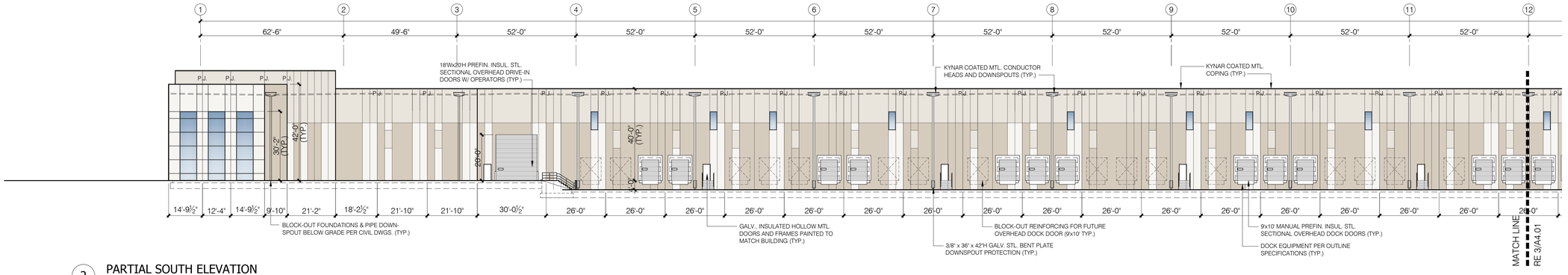


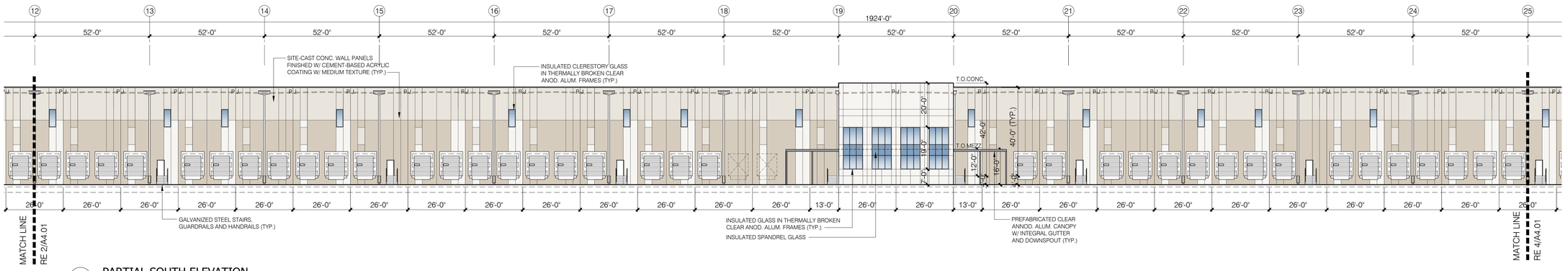
1 OVERALL SOUTH ELEVATION

Scale: 1"=20'



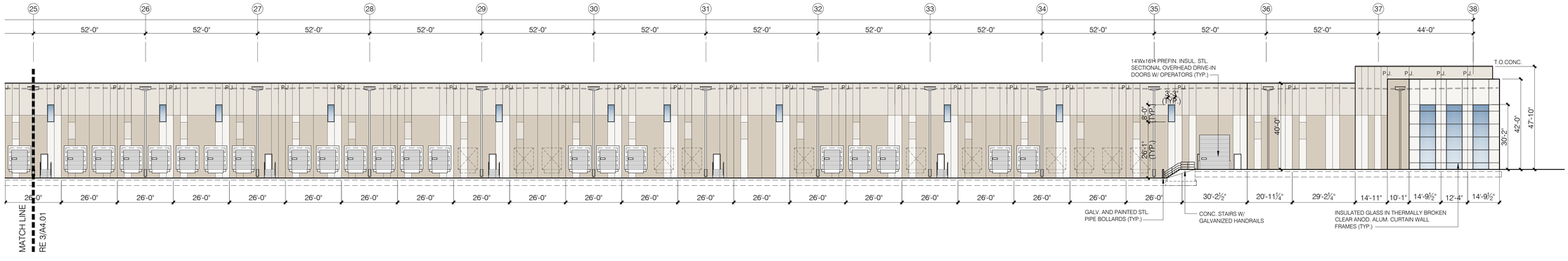
2 PARTIAL SOUTH ELEVATION

Scale: 1"=20'



3 PARTIAL SOUTH ELEVATION

Scale: 1"=20'



4 PARTIAL SOUTH ELEVATION

Scale: 1"=20'

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4825 NW 41st Street | Suite 500 | Riverside, MO 64150
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NorthPoint Development, LLC
Kansas Certificate of Authorization No. A-1099

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ELECTRICAL
FIRE PROTECTION
CONTRACTOR

NorthPoint DEVELOPMENT

Logistics PARK KANSAS CITY

Project Mustang Parts Building 1

Interstate 35 and Homestead Lane
Edgerton, KS

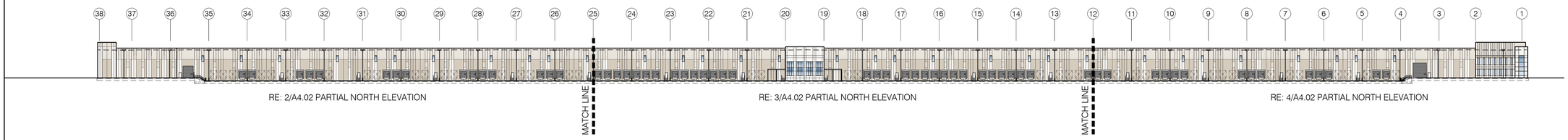
Project No.
Date: 12.22.17
Issued For: PRICING SET
Revisions:

No.	Date	Description

Preliminary
Not For Construction

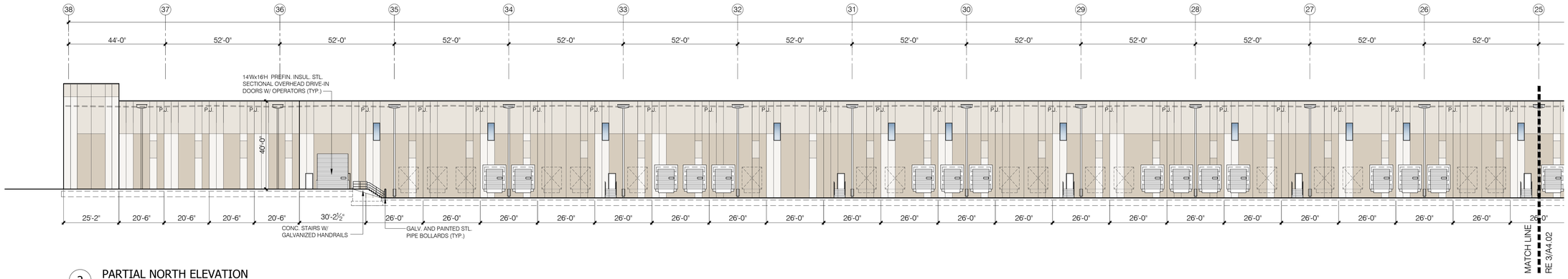
Ronald Dean Schauwecker - Architect
Kansas License No. 3874

A4.01
SOUTH BUILDING ELEVATIONS



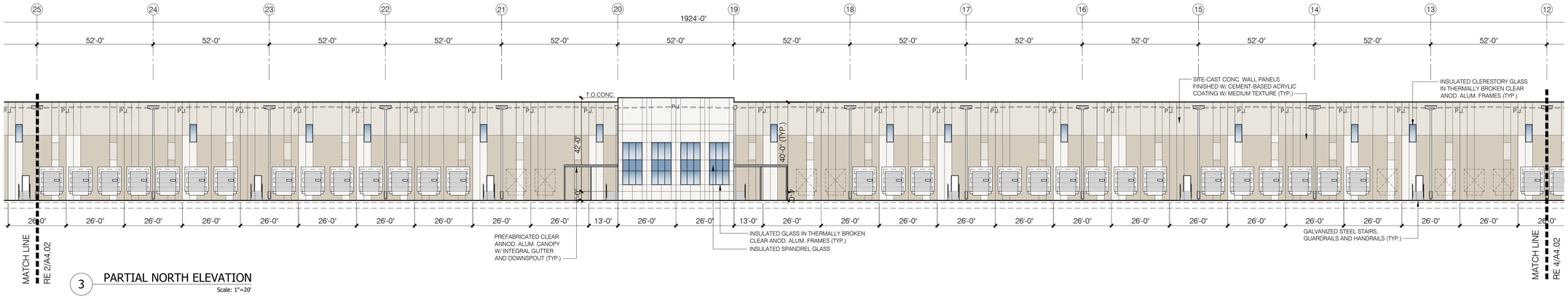
1 OVERALL NORTH ELEVATION

Scale: 1"=20'



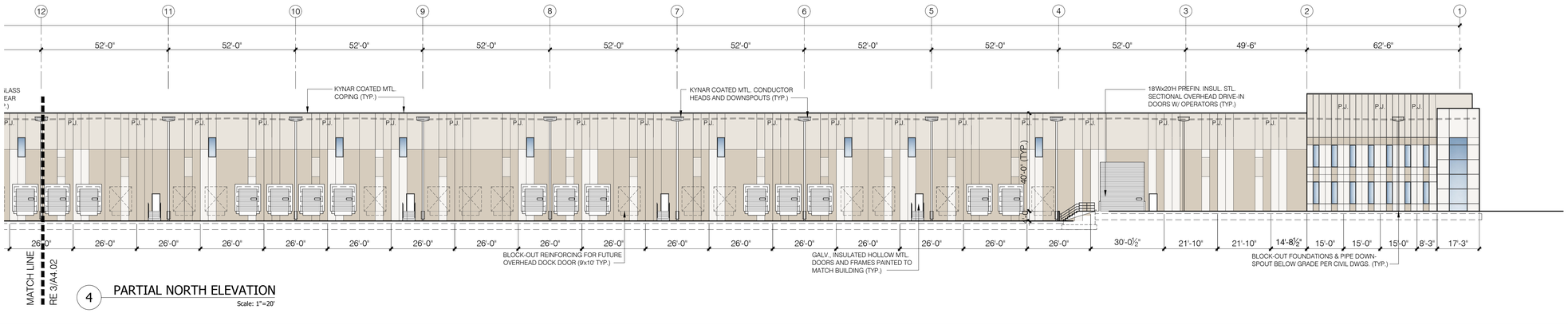
2 PARTIAL NORTH ELEVATION

Scale: 1"=20'



3 PARTIAL NORTH ELEVATION

Scale: 1"=20'



4 PARTIAL NORTH ELEVATION

Scale: 1"=20'

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Revisions:

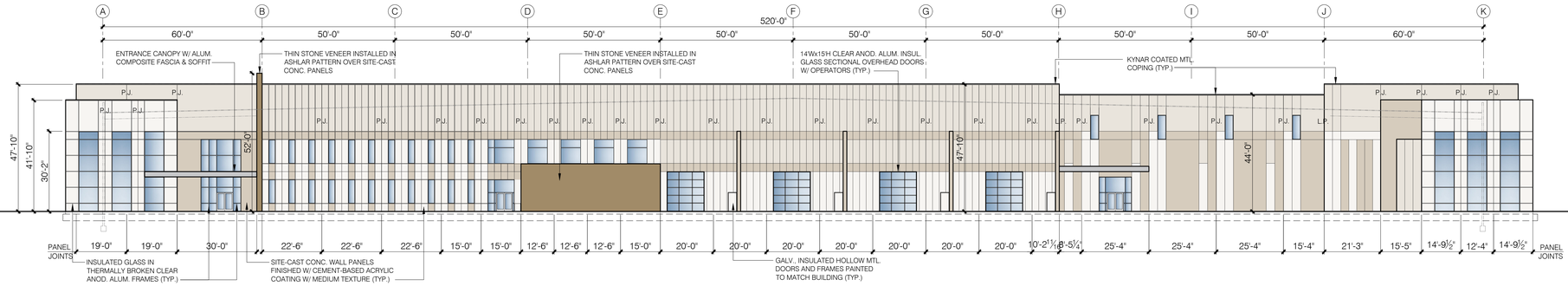
No.	Date	Description

Preliminary
Not For Construction

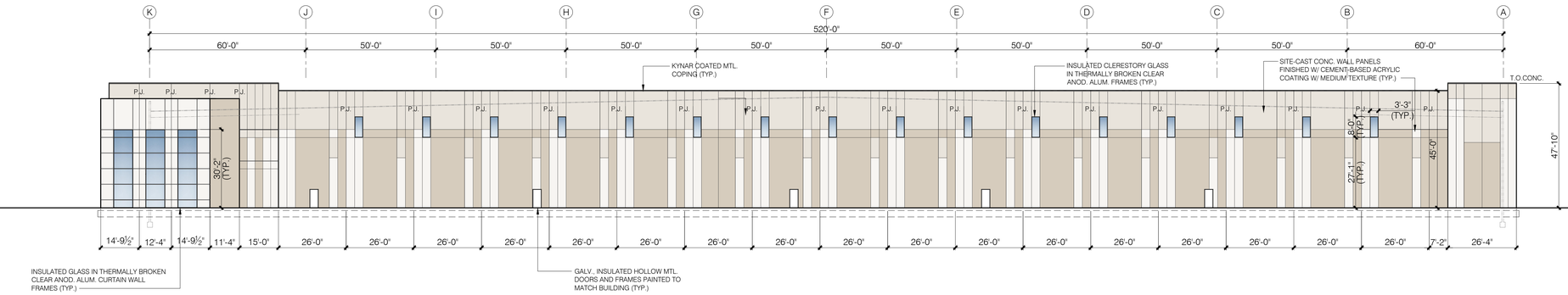
Ronald Dean Schauwecker - Architect
Kansas License No. 3874

A4.02

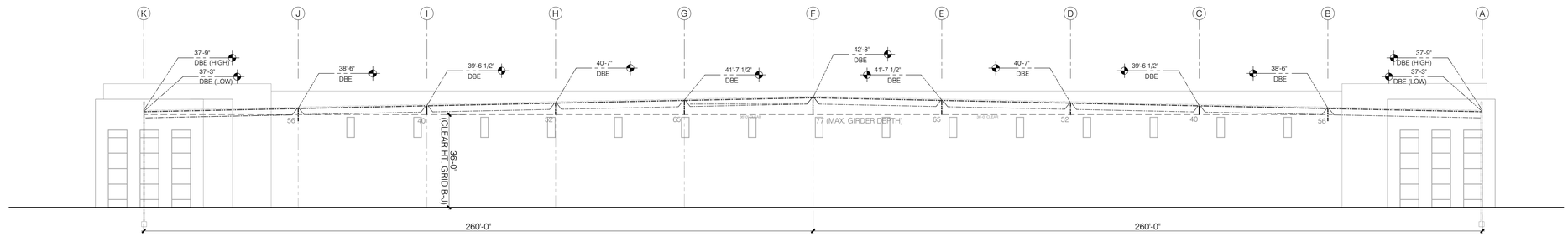
NORTH BUILDING ELEVATIONS



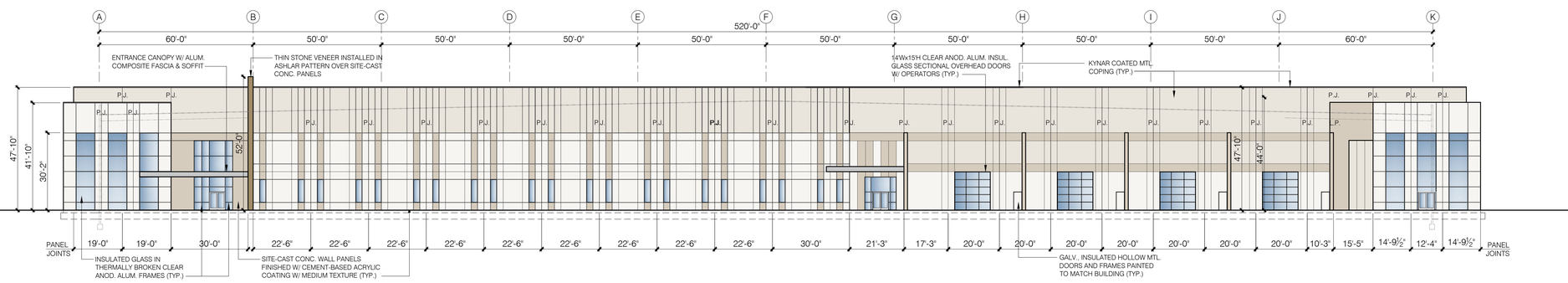
1 WEST ELEVATION
Scale: 1/16" = 1'-0"



2 EAST ELEVATION
Scale: 1/16" = 1'-0"



3 BUILDING SECTION
Scale: 1/16" = 1'-0"



1 WEST ELEVATION (ALTERNATE)
Scale: 1/16" = 1'-0"

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Kansas Certificate of Authorization No. A-1099

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PLUMBING
MECHANICAL
ELECTRICAL
FIRE PROTECTION
CONTRACTOR

NorthPoint DEVELOPMENT

Logistics PARK KANSAS CITY

Project Mustang Parts Building 1

Interstate 35 and Homestead Lane
Edgerton, KS

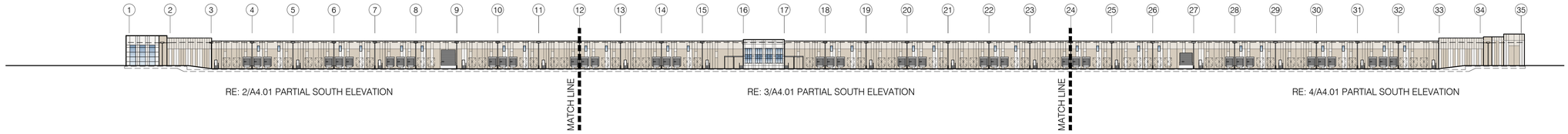
Project No.
Date: 12.22.17
Issued For: PRICING SET
Revisions:

No.	Date	Description

Preliminary
Not For Construction

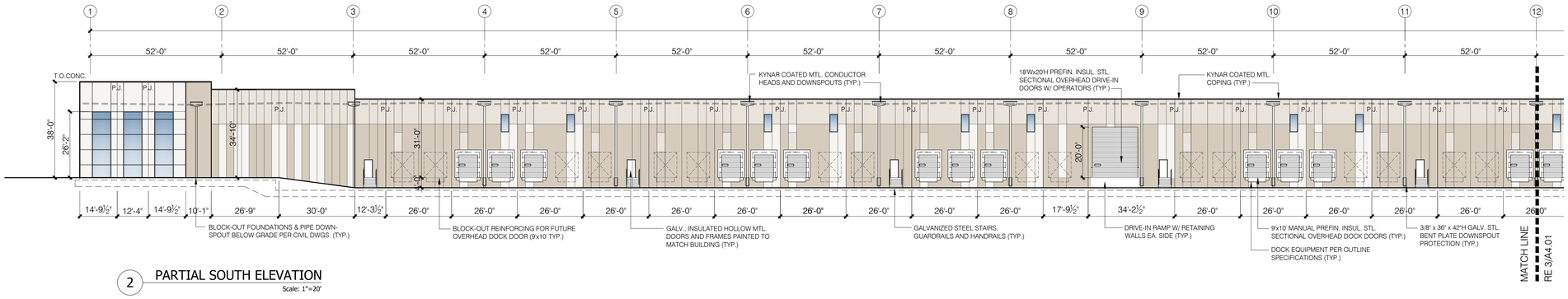
Ronald Dean Schauweecker - Architect
Kansas License No. 3874

A4.03
EAST & WEST ELEVATIONS



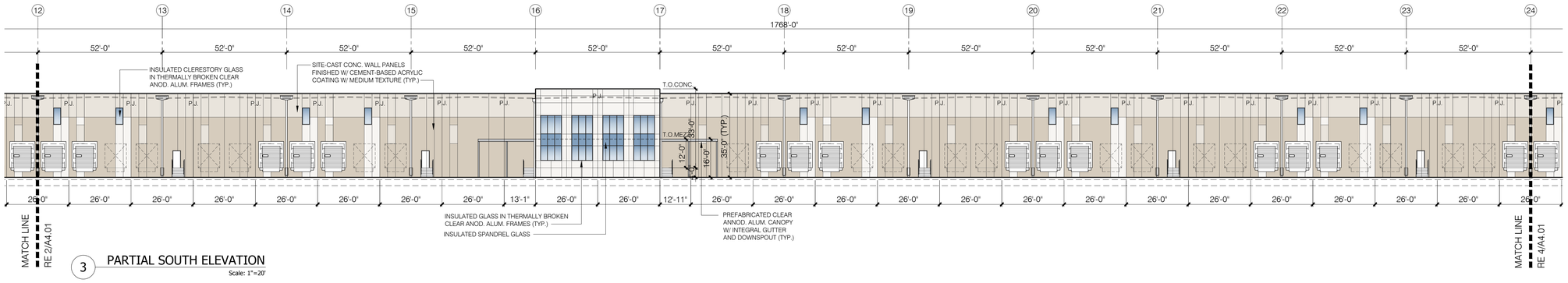
1 OVERALL SOUTH ELEVATION

Scale: 1"=20'



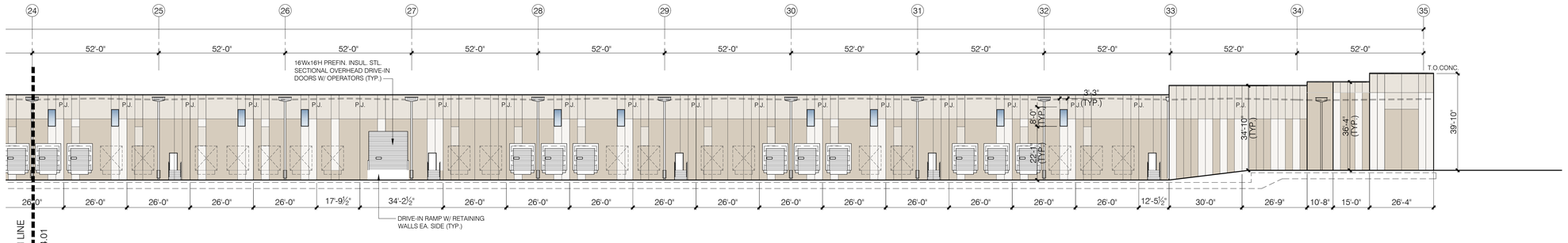
2 PARTIAL SOUTH ELEVATION

Scale: 1"=20'



3 PARTIAL SOUTH ELEVATION

Scale: 1"=20'



4 PARTIAL SOUTH ELEVATION

Scale: 1"=20'

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Logistics PARK KANSAS CITY

Project Mustang
Whole Goods Building 2

Interstate 35 and Homestead Lane
Edgerton, KS

Project No.
Date: 12.22.17
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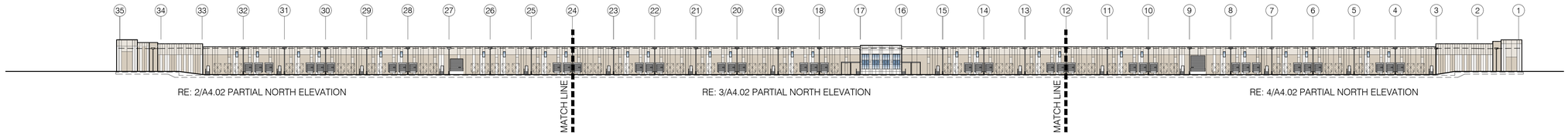
Kansas License No. 3874

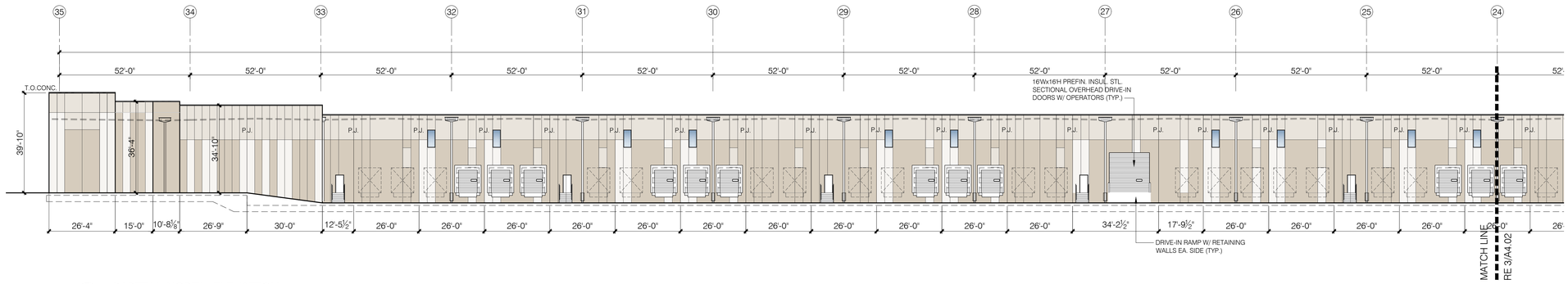
A4.04

SOUTH BUILDING ELEVATIONS



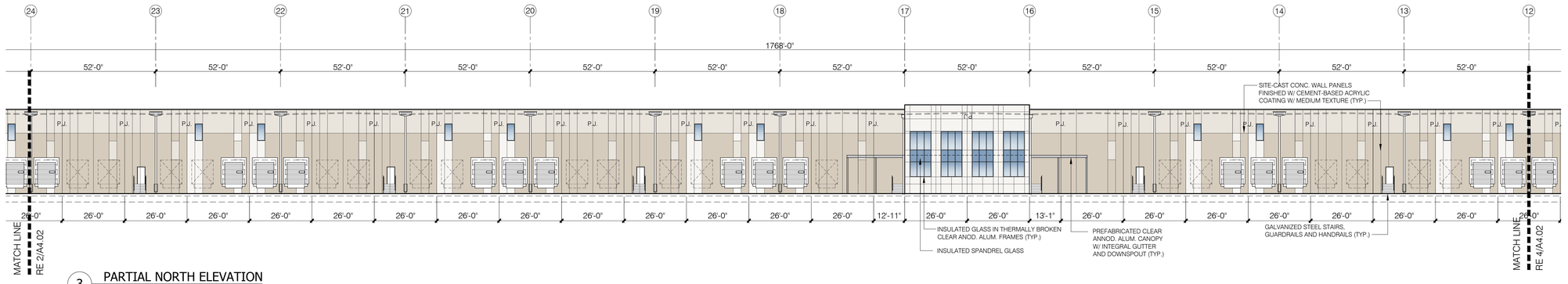
1 OVERALL NORTH ELEVATION

Scale: 1"=20'



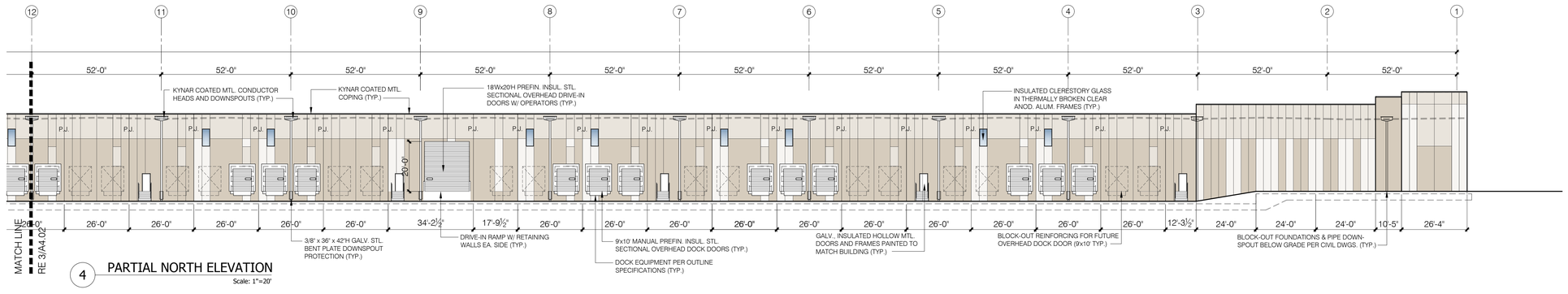
2 PARTIAL NORTH ELEVATION

Scale: 1"=20'



3 PARTIAL NORTH ELEVATION

Scale: 1"=20'



4 PARTIAL NORTH ELEVATION

Scale: 1"=20'

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Project Mustang
Whole Goods Building 2

Interstate 35 and Homestead Lane
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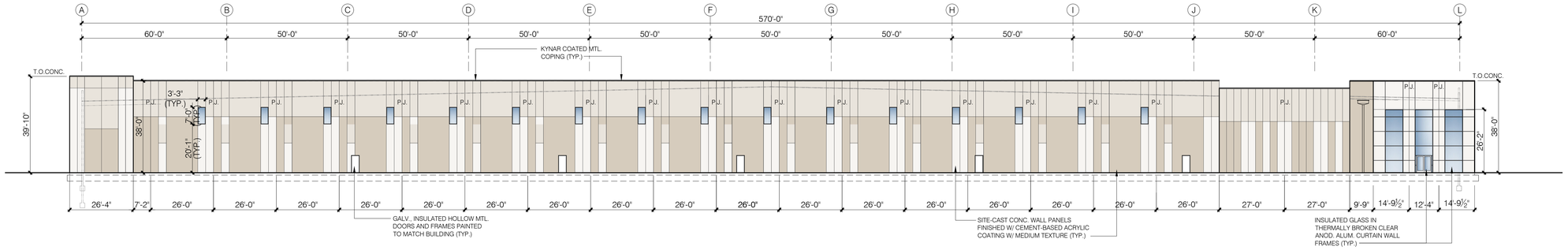
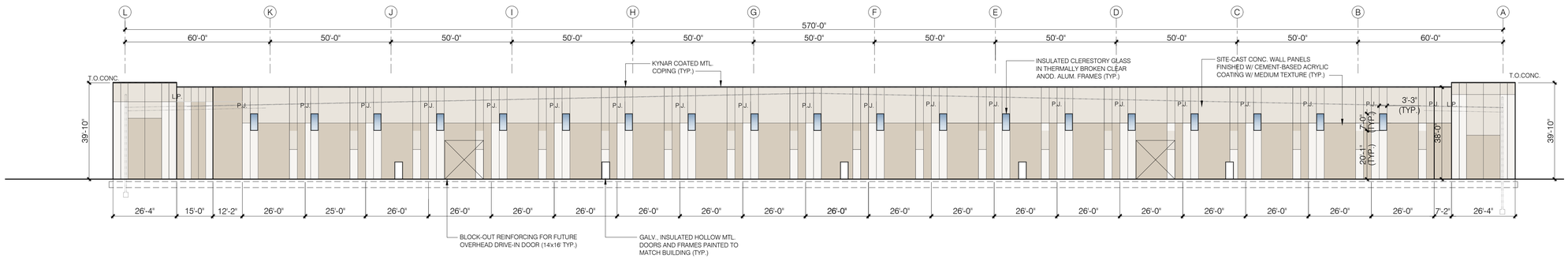
A4.05

NORTH BUILDING ELEVATIONS



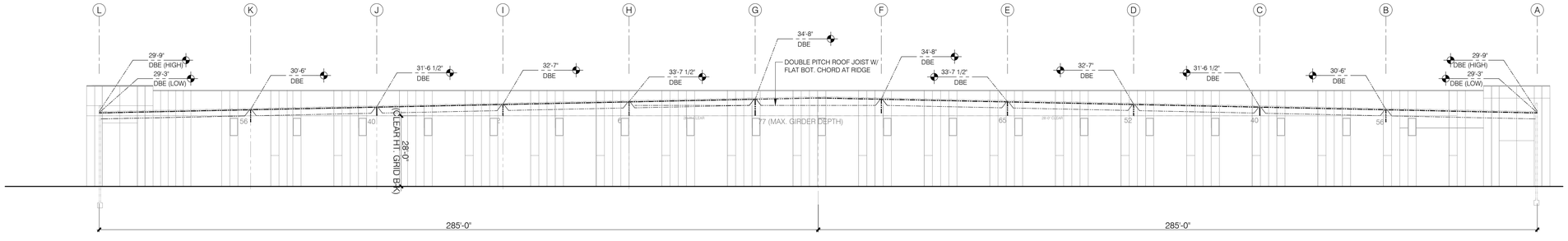
1 WEST ELEVATION

Scale: 1/16" = 1'-0"



2 EAST ELEVATION

Scale: 1/16" = 1'-0"



3 BUILDING SECTION

Scale: 1/16" = 1'-0"

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Project Mustang
Whole Goods Building 2

Interstate 35 and Homestead Lane
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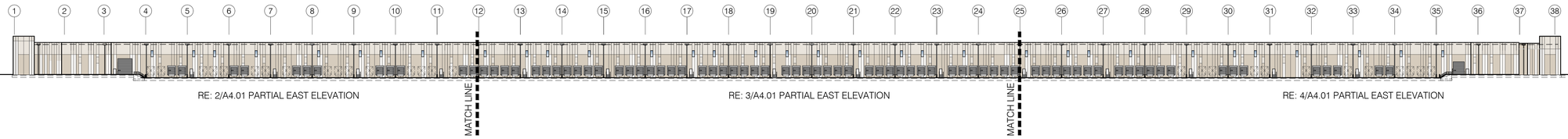
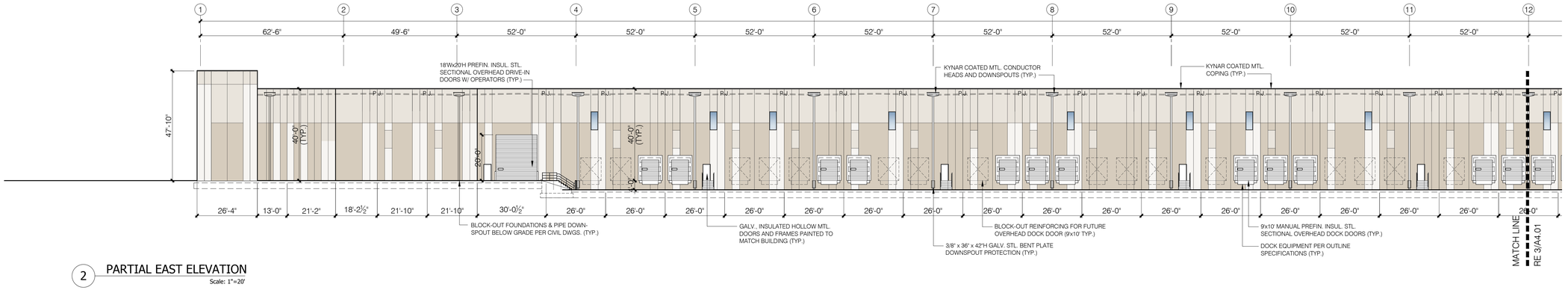
A4.06

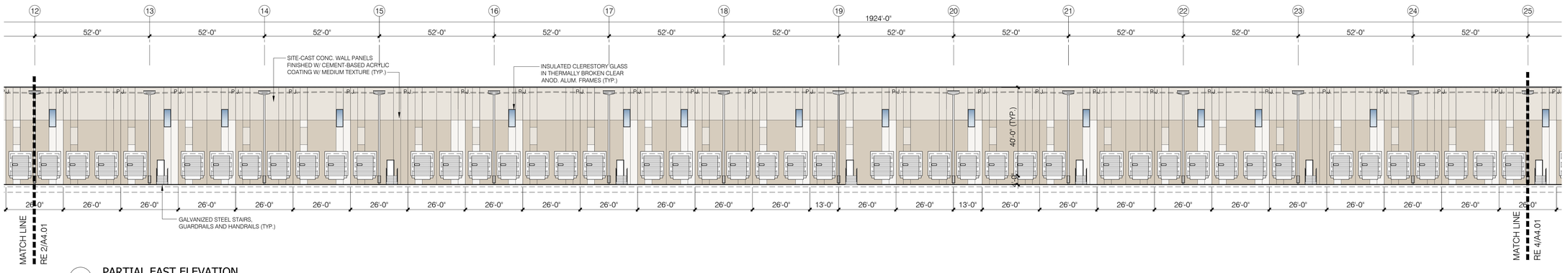
EAST & WEST ELEVATIONS



1 OVERALL EAST ELEVATION
Scale: 1"=20'



2 PARTIAL EAST ELEVATION
Scale: 1"=20'



3 PARTIAL EAST ELEVATION
Scale: 1"=20'

4 PARTIAL EAST ELEVATION
Scale: 1"=20'

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Project Mustang Maint. Building 3

Interstate 35 and Homestead Lane
Edgerton, KS

Project No.
Date: 12.22.17
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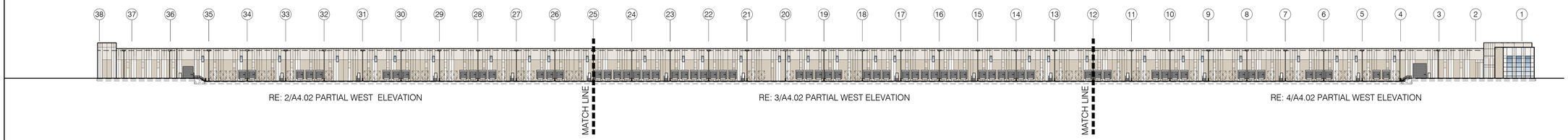
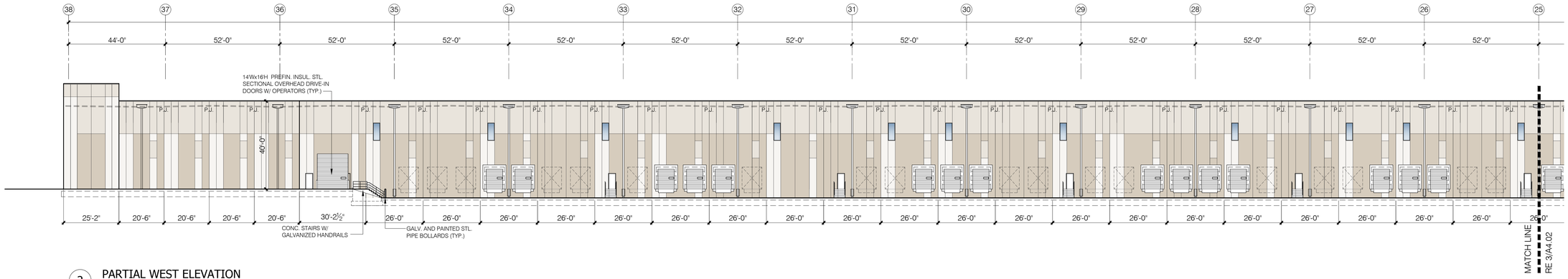
A4.07
SOUTH BUILDING ELEVATIONS



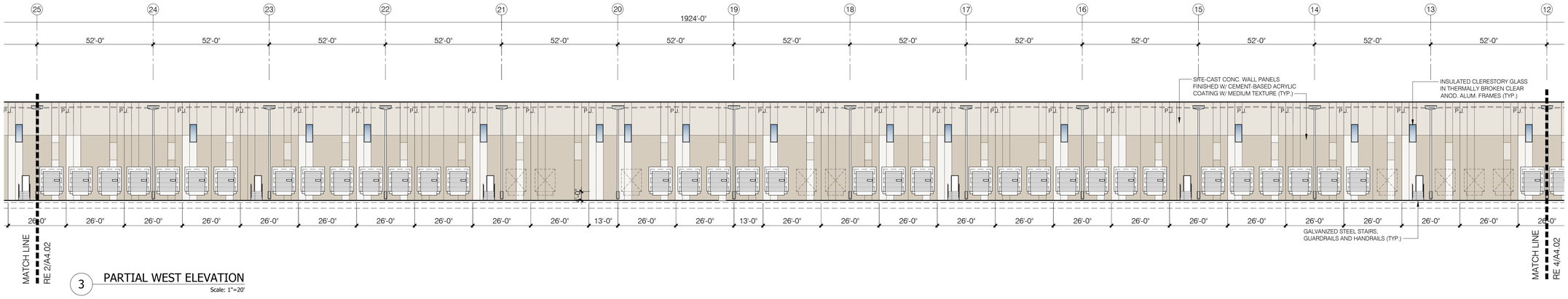
1 OVERALL WEST ELEVATION

Scale: 1"=20'



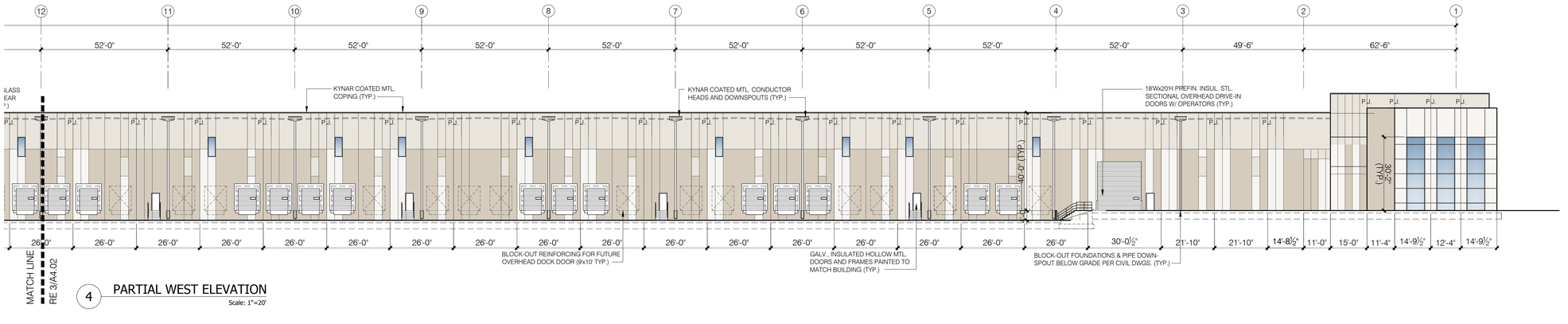
2 PARTIAL WEST ELEVATION

Scale: 1"=20'



3 PARTIAL WEST ELEVATION

Scale: 1"=20'



4 PARTIAL WEST ELEVATION

Scale: 1"=20'

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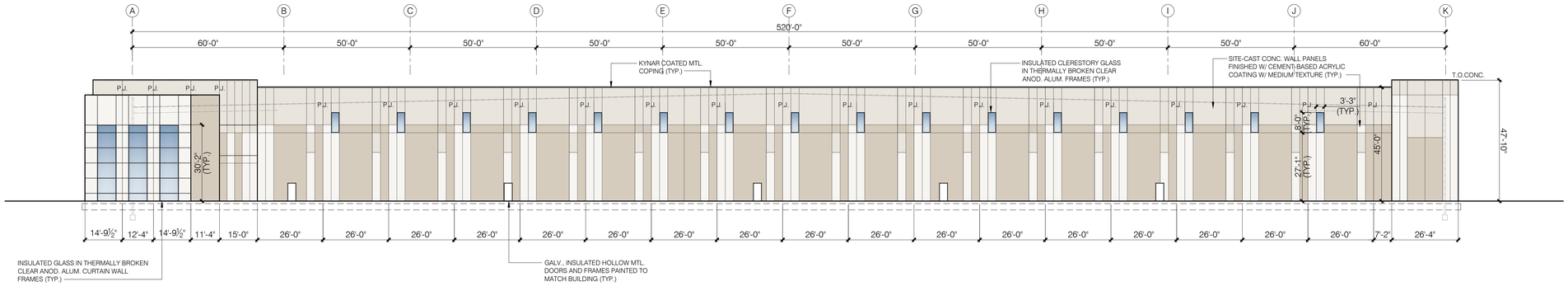
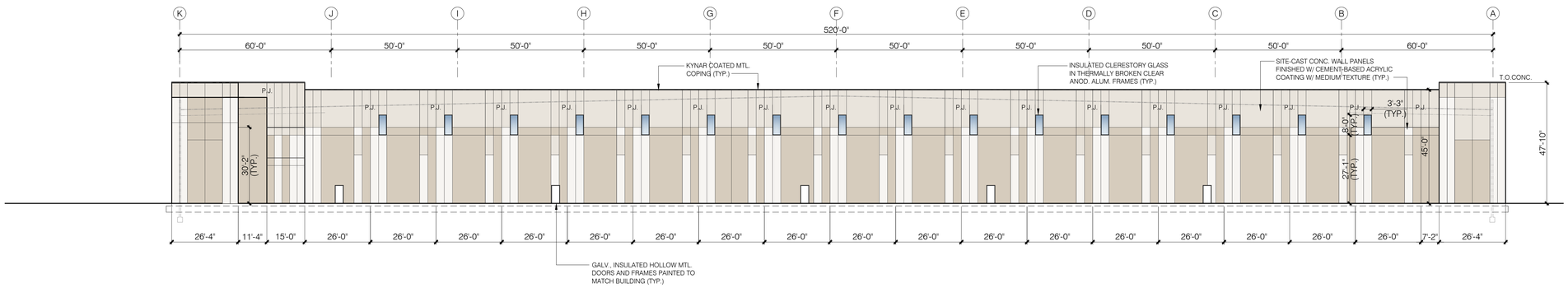
A4.08

NORTH BUILDING ELEVATIONS



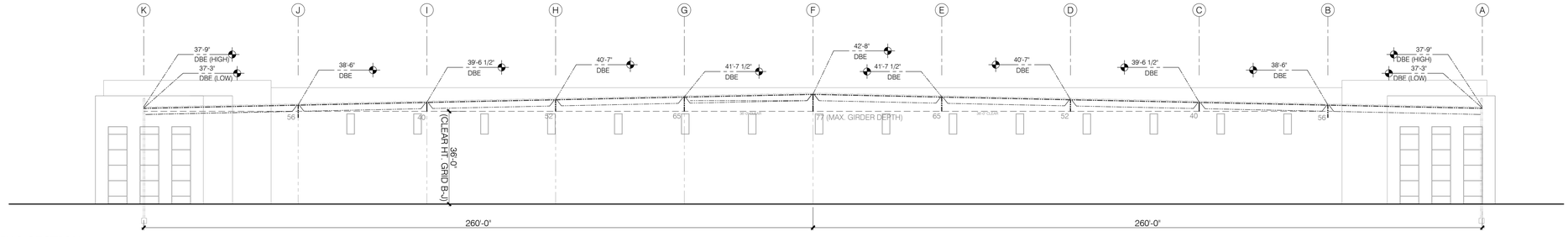
1 SOUTH ELEVATION

Scale: 1/16" = 1'-0"



2 NORTH ELEVATION

Scale: 1/16" = 1'-0"



3 BUILDING SECTION

Scale: 1/16" = 1'-0"

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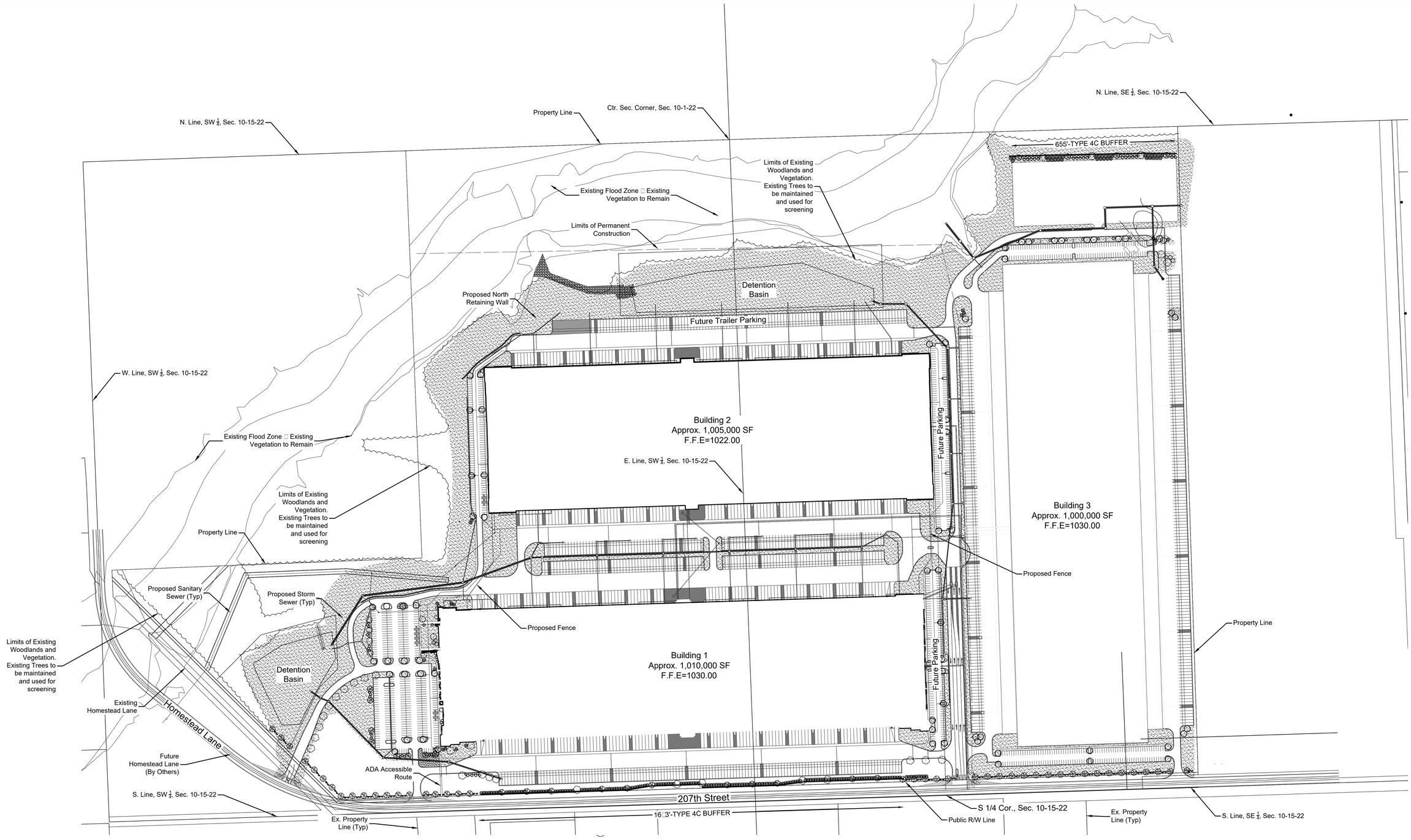
EAST & WEST ELEVATIONS



PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	QTY
	Acer rubrum □October Glory□TM / October Glory Maple	B□B	2.5"		7
	Gleditsia triacanthos □Skyline□/ Skyline Honey Locust	B□B	2.5"		68
	Juniperus virginiana □Hillspire□/ Hillspire Juniper	B□B		6□- 8□Ht.	□1
	Malus x □Spring Snow□/ Spring Snow Crab Apple	B□B	1.5" Cal.		□
	Nyssa sylvatica □Wildfire□/ Black Gum	B□B	2.5"		64
	Picea glauca □Densata□/ Black Hills Spruce	B□B		6□- 8□Ht.	22□
	Quercus robur □Regal Prince□/ Regal Prince English Oak	B□B	2.5"		5
	Quercus rubra / Red Oak	B□B	2.5"		31

SHRUBS	BOTANICAL NAME / COMMON NAME	CONT	QTY
	Calamagrostis x acutiflora □Karl Foerster□/ Feather Reed Grass	5 Gal.	166
	Euonymus alatus □Compactus□/ Compact Burning Bush	5 Gal.	32
	Hydrangea paniculata □Little Lime□/ Little Lime Hydrangea	5 Gal.	7
	Hypericum frondosum □Sunburst□/ Sunburst Hypericum	5 Gal.	24
	Itea virginica □Henry□s Garnet□/ Henry□s Garnet Sweetspire	5 Gal.	13
	Juniperus chinensis □Gold Lace□/ Gold Lace Juniper	5 Gal.	787
	Miscanthus sinensis □Morning Light□/ Eulalia Grass	5 Gal.	117

GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT	SPACING	QTY
	Turfgrass Sod Fescue Mix□RE: Notes / Fescue Seed	SEED		1,324,341 sf

NORTH
1"=150'
0 75' 150'

Sheet
L01

Preliminary Development Plan

17-0272
Project Mustang

Overall Landscape □
Seeding Plan

NO.	BY	DESCRIPTION	DATE
1	PHC	PER CITY COMMENTS	02/09/18
2	TAG	ORIGINAL SUBMITTAL	12/19/17
3	DJG	REVISIONS	

Renaissance Infrastructure Consulting
5095 NW CANAL STREET, SUITE 100
RIVERSIDE, MISSOURI 64150
816.800.0950
www.RICCONSULT.com

Feb 02, 2018-10:02am
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Limits of 100 Year Flood Elevation

Property Line

Limits of 100 Year Base Future Flood Elevation

Limits of Floodway

EXISTING TREES TO REMAIN

Limits of Floodway

Tract A

Limits of 100 Year Base Future Flood Elevation

EXISTING TREES TO REMAIN

Property Line

20' SSIE

Lot Line

Tract A

Property Line

ROW BUFFER

EXISTING TREES TO REMAIN

Lot Line

Limits of 100 Year Flood Elevation

Tract B

Building 2
Approx. 1,005,000 SF
F.F.E=1022.00

MATCH LINE

Building 1
Approx. 1,010,000 SF
F.F.E=1030.00

16.3' TYPE 4C BUFFER

207th Street

ROW BUFFER

Existing Major Contour

Existing Minor Contour

Proposed Major Contour

Proposed Minor Contour

Note:

For Grading Detail Figures, see Grading Detail Sheets

NORTH

1"=100'

0 50' 100'

Sheet
L02

Preliminary Development Plan

17-0272
Project Mustang

Landscape Plan West

NO.	BY	DES	DATE
	PHC	DDS	02/02/18
	TMG	TMG	12/19/17
			ORIGINAL SUBMITTAL
			12/19/2017

PER CITY COMMENTS

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5015 NW CANAL STREET, SUITE 100
RIVERSIDE, MISSOURI 64150
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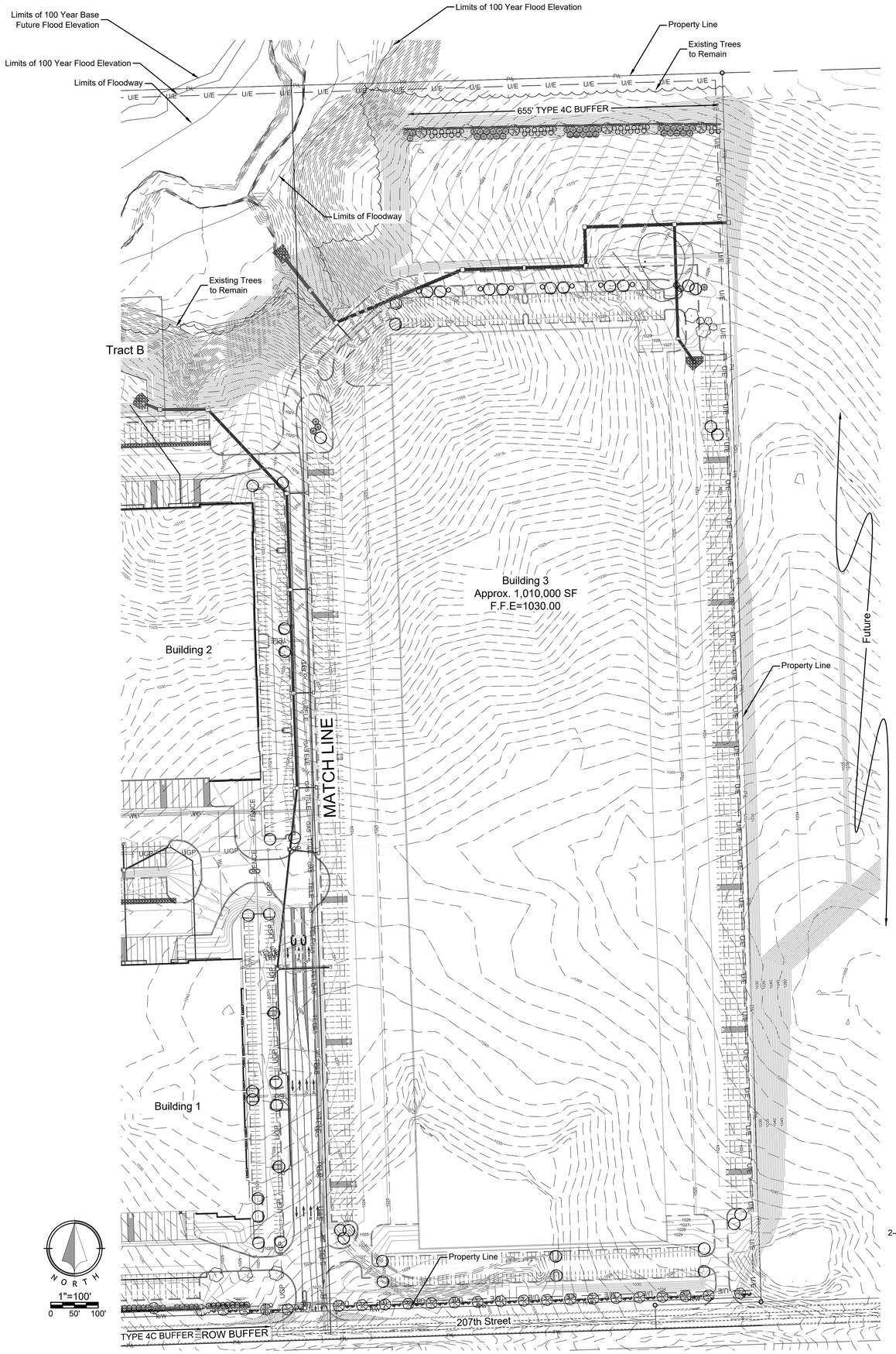
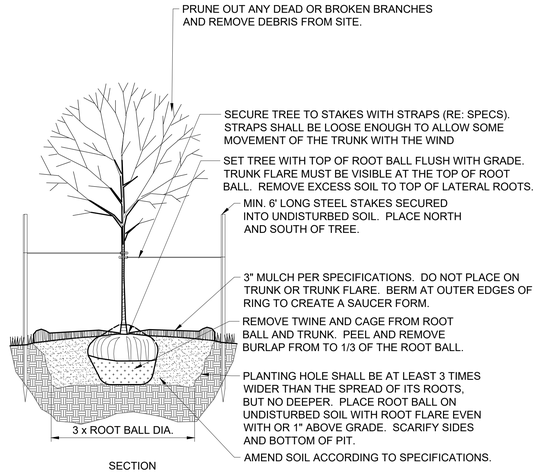


NOTES:
1. TREES THAT DO NOT MEET THE SIZE REQUIREMENT WILL BE REJECTED
2. TREES SHALL BE INSPECTED BY OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.



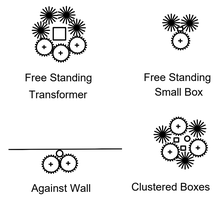
SECTION

TREE PLANTING DETAIL
NTS

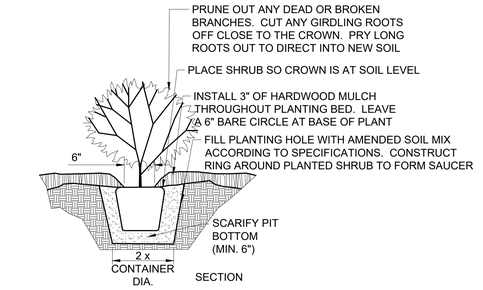
SITE TRIANGLE

PLANTING TIME TABLE
Fall 2018 - Spring 201□

NOTE: UTILITY BOXES SHALL BE CLUSTERED AS MUCH AS POSSIBLE



Typical Utility Box Screening Details
No Scale

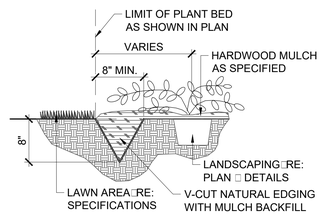


SECTION

NOTES:
1. REFER TO SPECIFICATIONS FOR TOPSOIL BACKFILL MIX.
2. CONTRACTOR TO WATER THOROUGHLY AFTER PLANTING
3. INSTALLATION TO BE IN ACCORDANCE WITH PLANTING SPECIFICATIONS

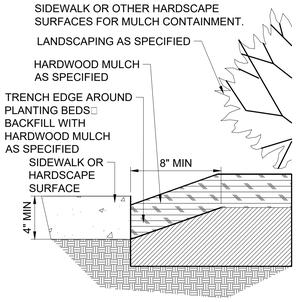
SHRUB PLANTING DETAIL
NTS

NOTES:
1. CONTRACTOR SHALL LOCATE AND MARK ALL PLANTBED LOCATIONS PRIOR TO EXCAVATING FOR FINAL APPROVAL BY OWNER OR LANDSCAPE ARCHITECT.
2. TRANSITION TO MULCH CONTAINMENT DETAIL AT ALL LOCATIONS ADJACENT TO CURBS □ SIDEWALKS. RE: DETAIL, THIS SHEET.
3. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO TRENCHING OR LANDSCAPE INSTALLATION.



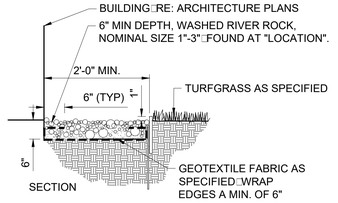
V-CUT / CULTIVATED EDGE
NTS

NOTES:
1. TRENCH ALL EDGES ADJACENT TO SIDEWALK OR OTHER HARDSCAPE SURFACES FOR MULCH CONTAINMENT.



SECTION

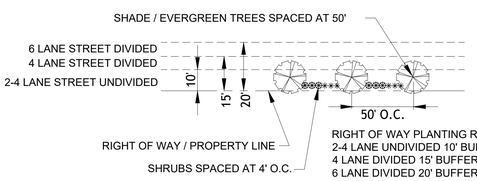
MULCH CONTAINMENT DETAIL
NTS



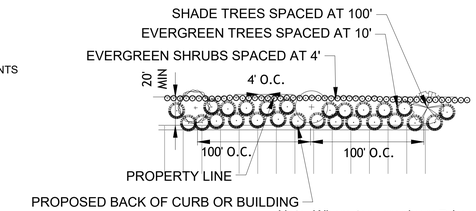
SECTION

NOTES:
1. SET ALL EDGING 1" ABOVE FINISH GRADE AS SHOWN.
2. EDGING SHALL ABUT ALL CONCRETE CURBS AND WALKS PERPENDICULAR AND FLUSH WITH TOP OF CONCRETE
3. ALL JOINTS SHALL BE SECURELY STAKED
4. CONTRACTOR SHALL CUT TOP EDGES AS NEEDED TO BE PARALLEL WITH GRADE.

MOW EDGE DETAIL
NTS



RIGHT OF WAY BUFFER
NTS



TYPE 4C BUFFER
NTS

Note: Where topography re□uires, evergreen trees to be placed linear to prevent trees from being placed too high or low on a slope

Sheet
L03

Preliminary Development Plan

17-0272
Project Mustang

Landscape Plan East

NO.	BY	DESCRIPTION	DATE
	PMC	PER CITY COMMENTS	02/02/18
	TMO	PER CITY COMMENTS	12/18/17
	PMC	ORIGINAL SUBMITTAL	08/25/17

Renaissance Infrastructure Consulting
5205 NW CANAL STREET, SUITE 100
RIVERSIDE, MISSOURI 64150
816.600.0950
WWW.RIC-CONSULT.COM

Feb 02, 2018 - 10:05am
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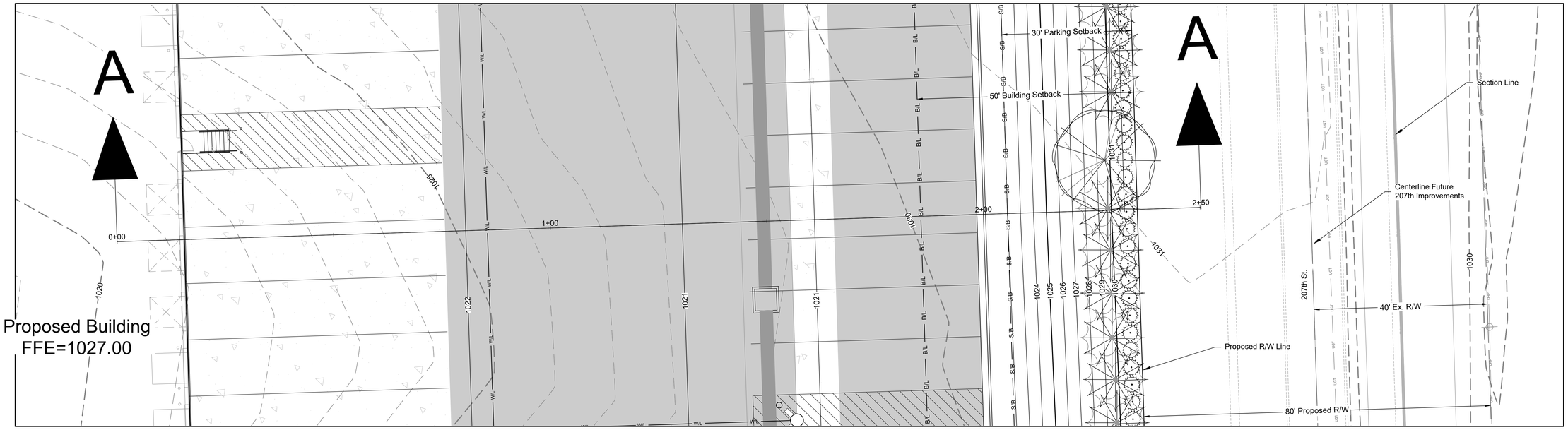
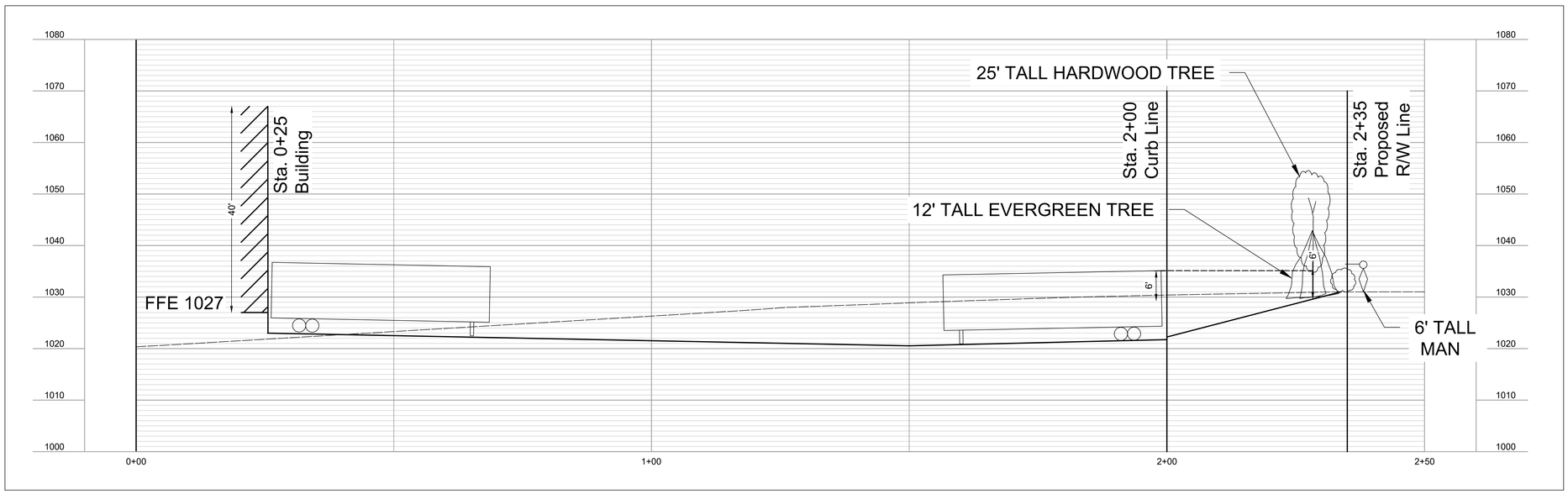
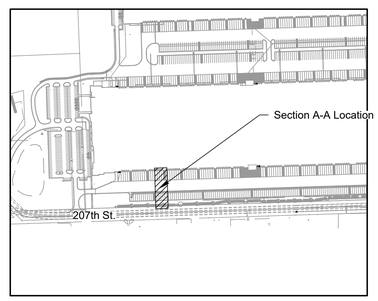




Modified 4C

Section A-A
Looking East



Section A-A Location

NTS

Sheet
1 of 2

Preliminary Site Plan

17-0272
Project Mustang

Landscape Sections

NO.	BY	DATE	REVISION
	DMH	2/7/18	ORIGINAL SUBMITTAL
	GDO		

Renaissance Infrastructure Consulting
5015 NW CANAL STREET, SUITE 100
RIVERSIDE, MISSOURI 64150
816.800.0950
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Feb 07, 2018-3:04pm
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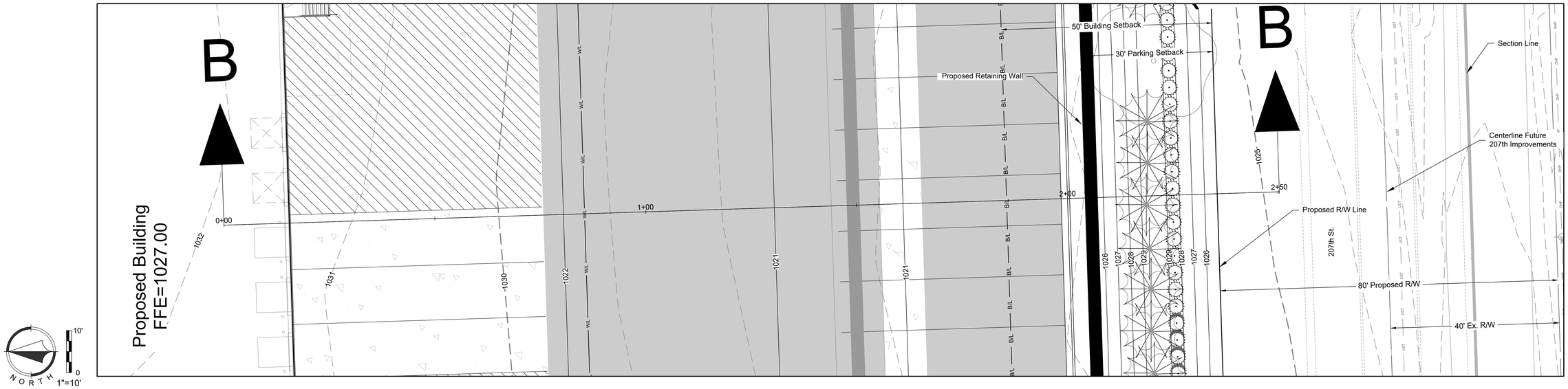
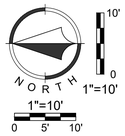
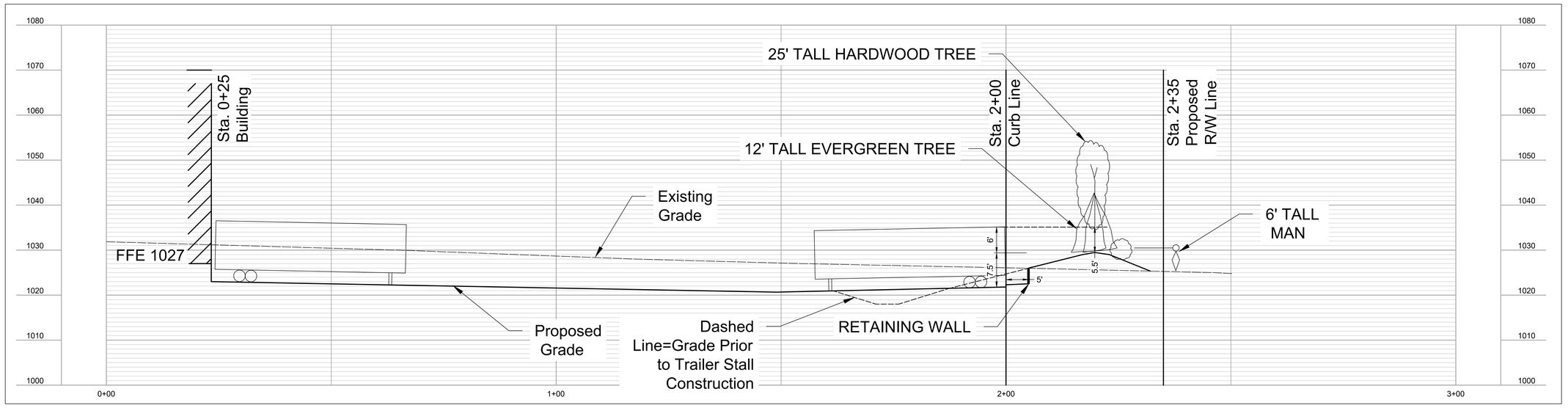
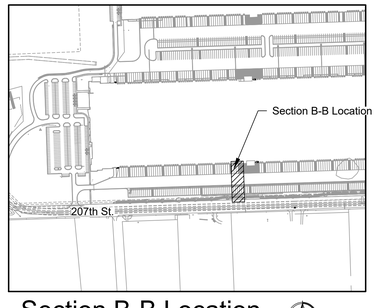






Modified 4C

Section B-B
Looking East



Section B-B Location

NTS

Sheet
2 of 2

Preliminary Site Plan

17-0272
Project Mustang

Landscape Sections

NO	BY	DATE	REVISION
	PNC	8MW	2/7/18	ORIGINAL SUBMITTAL

Renaissance Infrastructure Consulting
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Feb 07, 2018-3:05pm
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Site Specific Passenger Vehicle Parking Analysis

NorthPoint Development, LLC has contracted with a built to suit warehouse user on a site generally located at the northeast corner of Homestead Lane and W 207th Street, known as Project Mustang. The project is planned to be phased, with two (2) buildings being constructed initially and a third, future building to be constructed as needed. Initially, buildings 1 and 2 will be utilized as follows:

Building 1 - 1,010,000 SF warehouse building which incorporates approximately 25,000 SF of general office space and 18,500 SF of demonstration and training space within the building envelope.

Building 2 – 1,005,000 SF warehouse building which incorporates minor office and break area components more typical of standard storage warehouse uses.

Building 1 (1,010,000 SF)

Of the two initial warehouse buildings to be constructed, Building 1 will have the higher demand for passenger vehicle parking. Based upon our discussion with the beneficial user, it is determined that 300 passenger vehicle parking stalls located at the west end of the building will be necessary to support the uses described within Building 1 for the determinable future. Future work process flows may generate up to another 150 passenger vehicle stalls (PVS), the majority of which would be constructed at the east end of Building 1. While not initially required, the stalls have been shown on the site plan to be constructed as needed. The user anticipates the breakdown of the initial 300 vehicle stalls to be as follows:

Use	Current Need
General Office (incl. visitors)	150
Demonstration/Training	100
Warehouse	50
Total	300

Parking Provided 486 (as shown on preliminary site plan)
Parking Required* 505 (1 stall per 2,000 SF of building area)
*per section 5.2.K.3 of the City of Edgerton, Kansas Unified Development Code

Building 2 (1,005,000 SF)

Building 2 will have a lower demand for passenger vehicle parking. Based upon our discussion with the beneficial user, it is determined that 60 PVS located at the west end of the building will be necessary to support the uses described within Building 2 for the determinable future. Future work process flows may generate up to 100 additional stalls. Additional stalls are shown on the site plan based upon the beneficial user's projected needs and are generally split with equivalent amounts of parking stalls located at both the east and west ends of the building. While not initially required, the stalls have been shown on the site plan to be constructed as needed.

Parking Provided 264 (116 East / 148 West) (as shown on preliminary site plan)
Parking Required* 503 (1 stall per 2,000 SF of building area)
*per section 5.2.K.3 of the City of Edgerton, Kansas Unified Development Code

Building 3 (1,000,000 SF)

Currently, the specific programming and use within the building is unknown. Specific analysis of needed passenger vehicle parking will be further studied closer to construction of the building and in conjunction with Final Site Plan approvals to affirm the parking count shown on the plan is sufficient for their needs.

Parking Provided 261 (as shown on preliminary site plan)
Parking Required* 500 (1 stall per 2,000 SF of building area)
*per section 5.2.K.3 of the City of Edgerton, Kansas Unified Development Code

Per Article 5 of the City of Edgerton, Kansas Unified Development Code (Article 5.2.K.3), buildings in excess of 100,000 square feet or users with specific parking needs may provide an independent parking study to the City for approval. Each of the above described buildings is over the minimum size requirement set forth within the development code and qualifies for an independent parking study.

This letter shall serve as such study, based upon the operational needs and the recommendations of the beneficial user of the campus. We respectfully request approval of this letter in satisfaction of the above referenced development code requirement.

NORTHPOINT DEVELOPMENT, LLC

John Thomas
NorthPoint Development, LLC (representing the applicant)
4825 NW 41st Street, Suite 500
Riverside, MO 64150
(phone) 816-888-7380