CITY OF OVERLAND PARK

INTRACITY COMMUNICATION

February 13, 2020

Rhonda Clark – SPS

CENTURY FARMS, 2ND PLAT PIP2018-00025

<u>NOTE</u>: Building Permits will not be issued until the applicant produces a Sanitary Sewer Connection Permit from Johnson County Wastewater.

SWALE GRADING

The following lots include, or are adjacent to engineered swales designed for purposes of stormwater conveyance. An engineered plot plan is required for these lots in conformance with City requirements.

Minimum Low Openings must be a minimum of 1 foot above the 100-year storm energy grade line as measured perpendicular to the swale.

LOT	<u>SWALE</u>	<u>EGL DEPTH (FEET)</u>
69	DD	0.27
70	DD	0.27
71	DD	0.27
72	DD	0.27
73	DD	0.27
74	DD	0.27
75	DD	0.27
76	DD	0.27
87	AA	0.32
88	AA	0.32
89	AA	0.32
90	AA	0.32
91	AA	0.32
92	BB	0.24
93	BB	0.24
97	CC	0.20

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98	CC	0.20
99	CC	0.20
100	CC	0.20

MLO SET BY ENGINEER

The following lots are adjacent to large open stormwater conveyances which require freeboard for all building openings and tops of foundation walls. An engineered plot plan is required for these lots which show the minimum low opening established on the subdivision as-built grading plan and actual proposed building openings and top of foundation wall elevations.

LOT	MLO (All Building Openings)
60	1006.7
61	1006.7

BERM GRADING

The following lots include berms designed to direct stormwater runoff. An engineered plot plan is required for these lots that show preserving or constructing berms as shown on the subdivision as-built grading plan.

<u>LOT</u>

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LOT GRADING

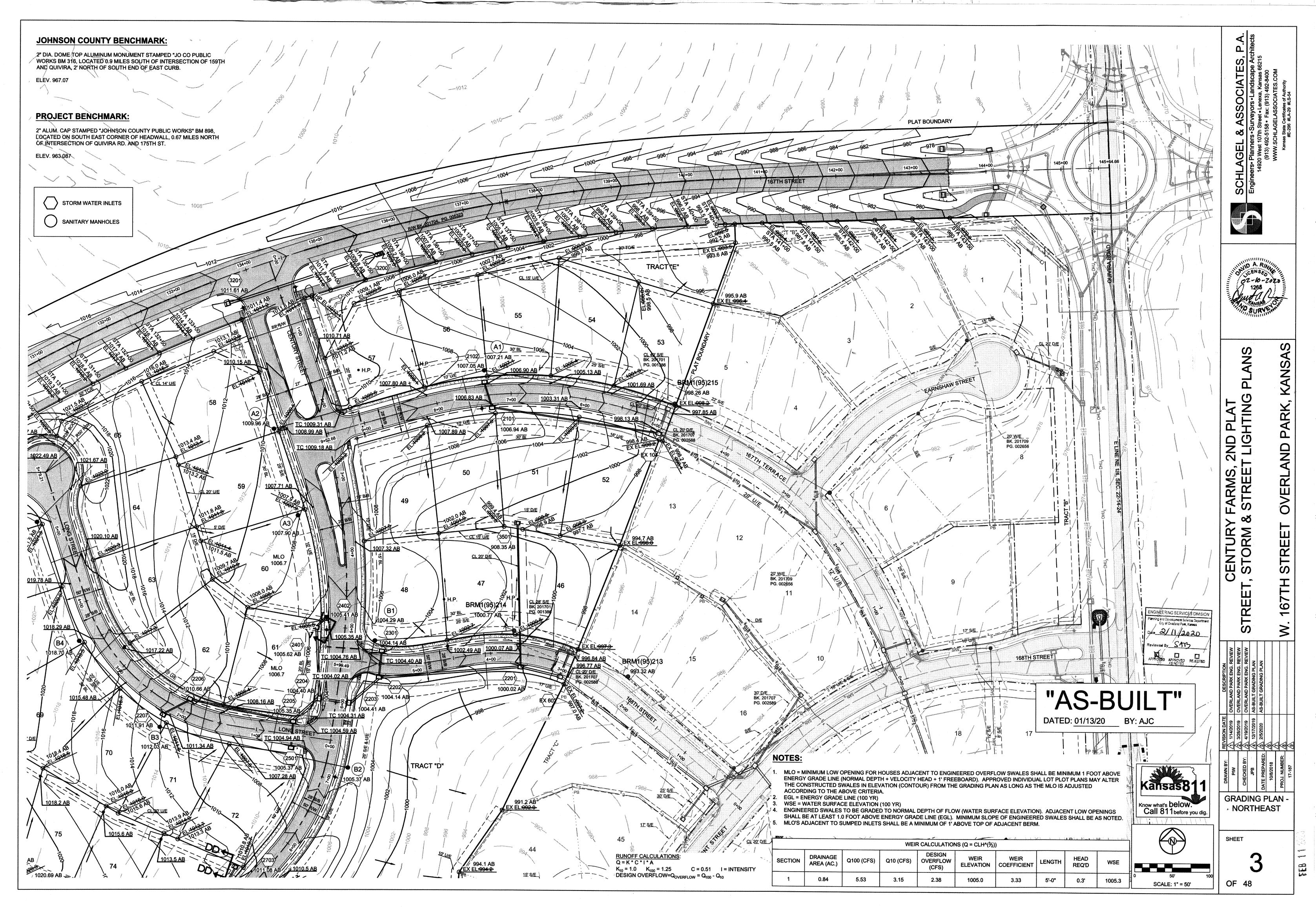
The following lots require specific grading to ensure proper drainage paths between lots. An engineered plot plan is required for these lots which show the drainage paths based upon grading specified by the Engineer.

<u>Lot</u>

If you have any questions, please contact me.

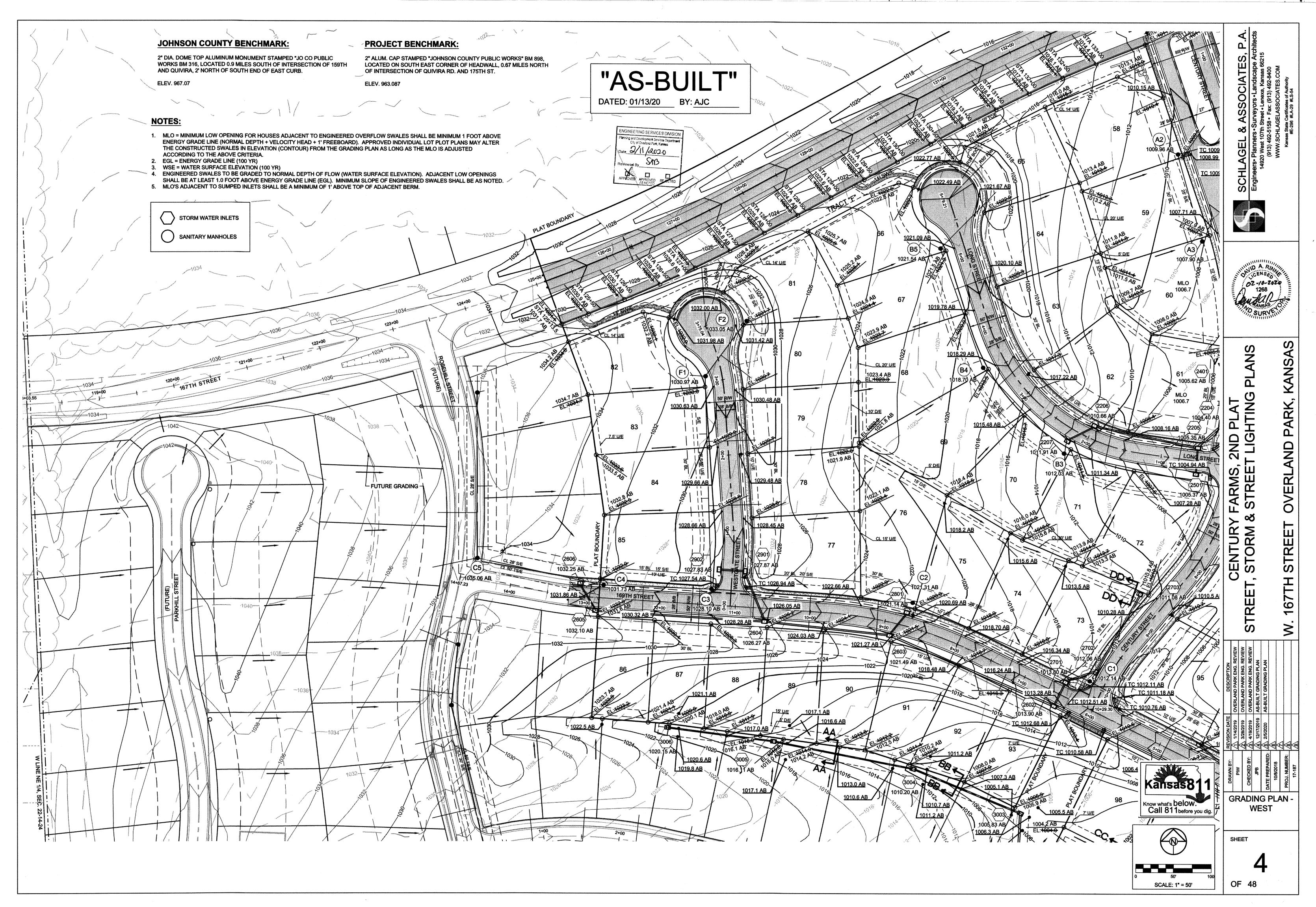
Stephanie Byard, Senior Planning Technician

c: Paul Woodard, P.E., Schlagel & Associates Anne Hays, P.E, Review Engineer Tony Meyers, P.E., Manager, Engineering Services Mark Zarda, Inspector Jeff Hunt - Supervisor, Public Works Maintenance Irina Idelson-Senior Technician, Public Works Permit Services Century Farms Development LC, Developer Energov File: PIP2018-00025 City website

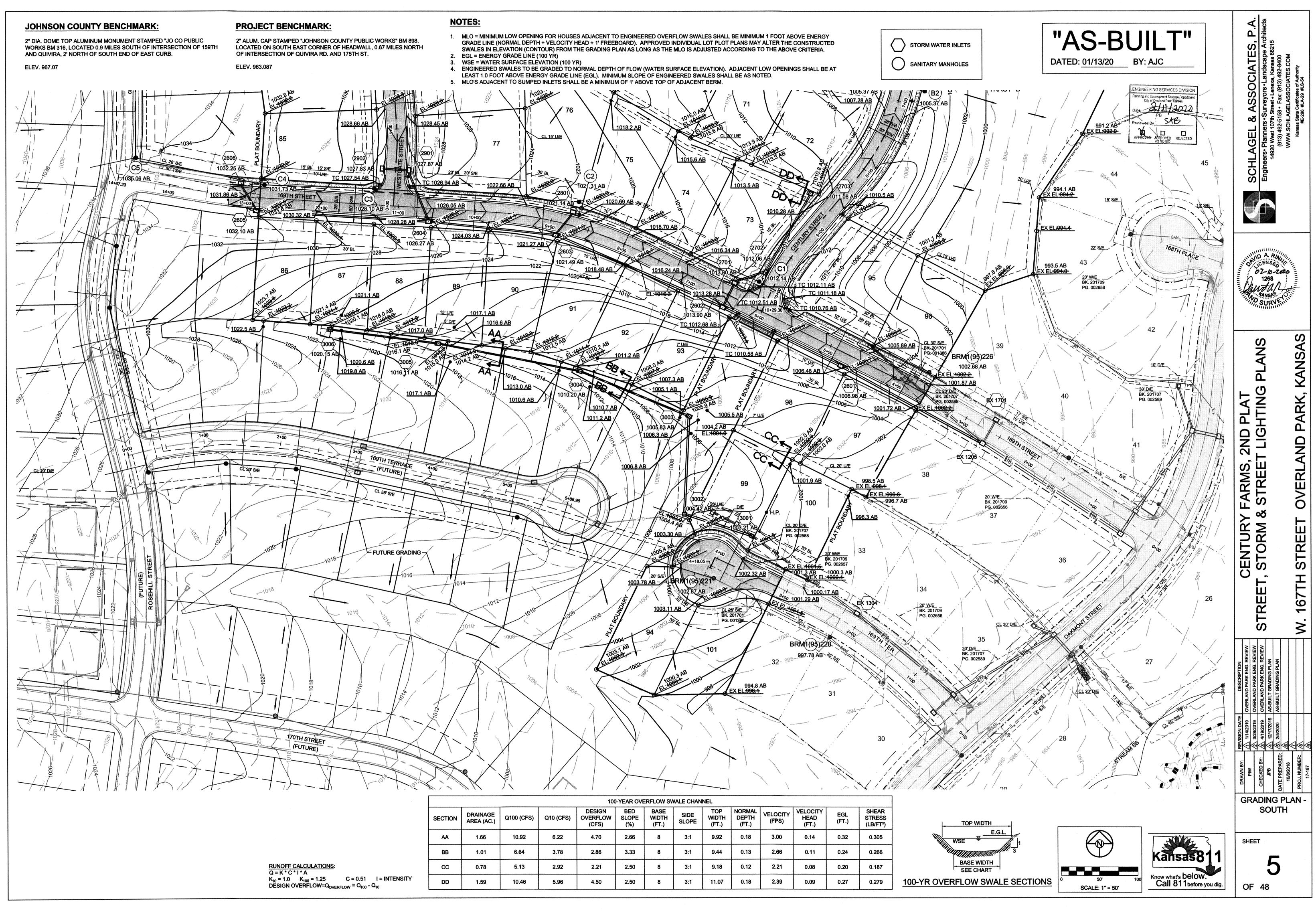


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100-YEAR OVERFLOW SWALE CHANNEL													
SECTION	DRAINAGE AREA (AC.)	Q100 (CFS)	Q10 (CFS)	DESIGN OVERFLOW (CFS)	BED SLOPE (%)	BASE WIDTH (FT.)	SIDE SLOPE	TOP WIDTH (FT.)	NORMAL DEPTH (FT.)	VELOCITY (FPS)	VELOCITY HEAD (FT.)	EGL (FT.)	SHEAR STRESS (LB/FT ²)
AA	1.66	10.92	6.22	4.70	2.66	8	3:1	9.92	0.18	3.00	0.14	0.32	0.305
BB	1.01	6.64	3.78	2.86	3.33	8	3:1	9.44	0.13	2.66	0.11	0.24	0.266
сс	0.78	5.13	2.92	2.21	2.50	8	3:1	9.18	0.12	2.21	0.08	0.20	0.187
DD	1.59	10.46	5.96	4.50	2.50	8	3:1	11.07	0.18	2.39	0.09	0.27	0.279