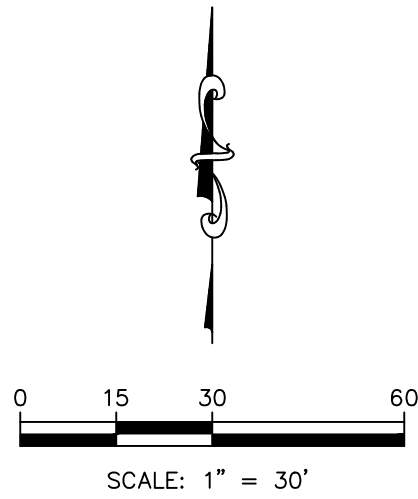
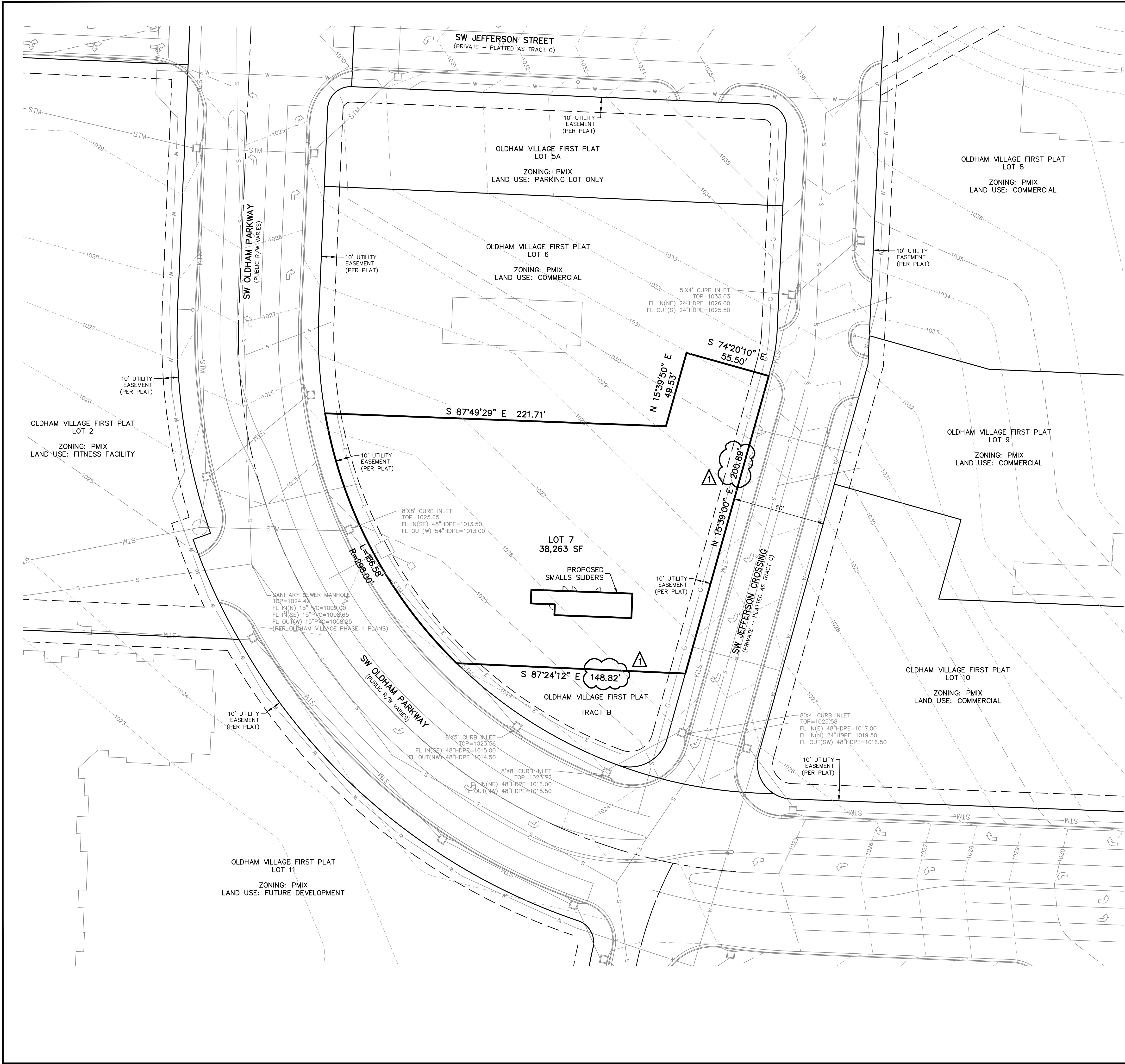
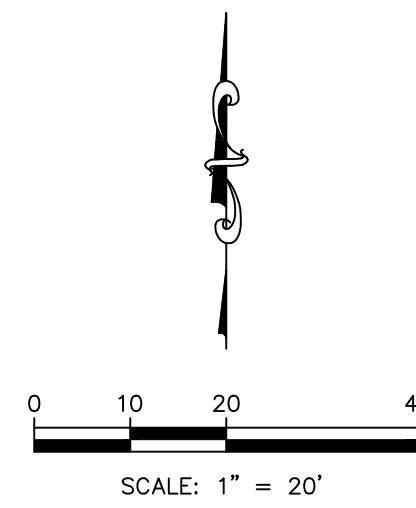
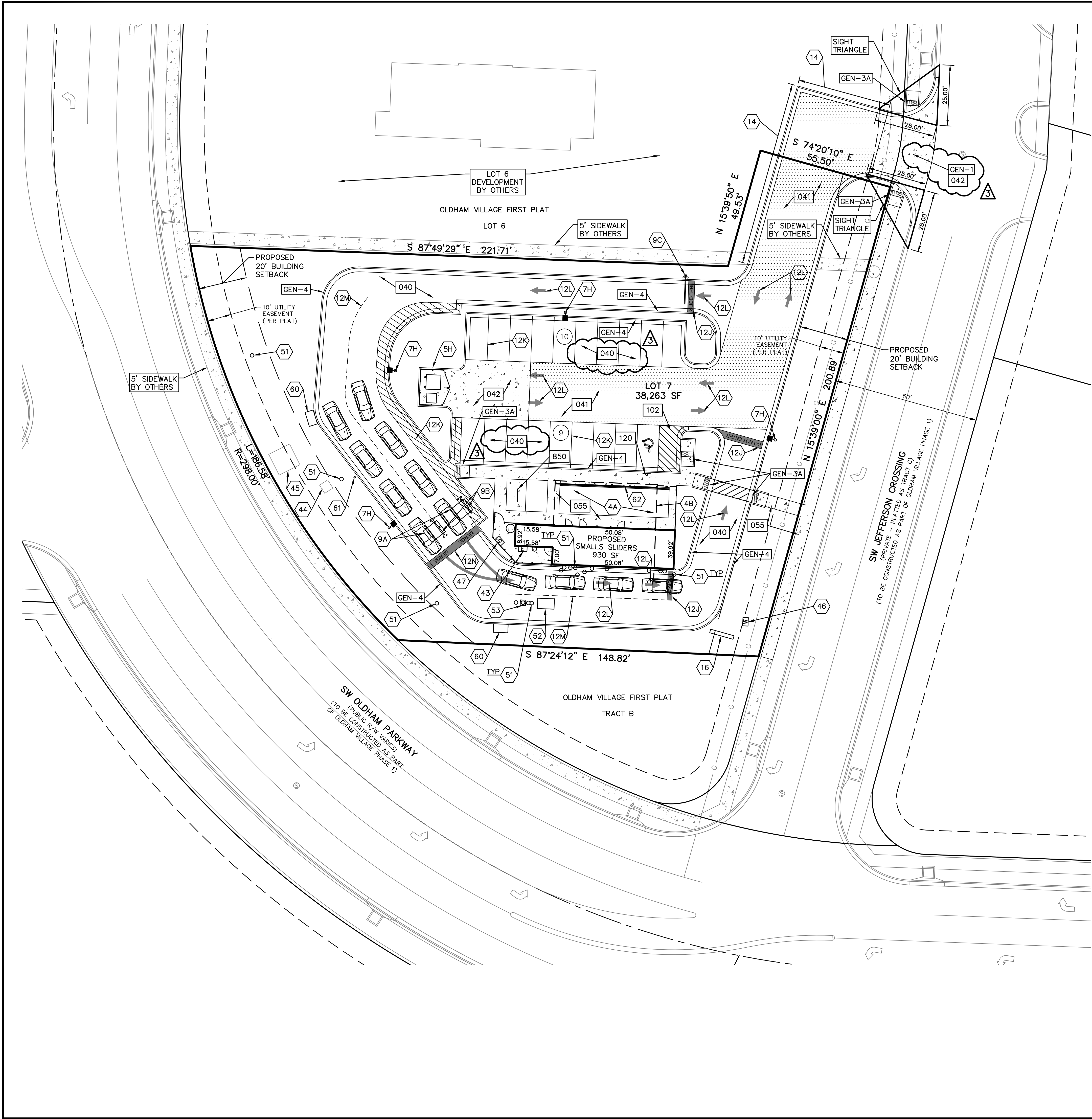




FLOOD STATEMENT:
THE ACCURACY OF ANY FLOOD HAZARD DATA SHOWN HEREON IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP. THE SURVEYED PROPERTY LIES WITHIN "OTHER AREAS ZONE X" AS SAID PROPERTY PLOTS BY SCALE ON THE FLOOD INSURANCE RATE MAP NUMBER 29095C04190) EFFECTIVE DATE JANUARY 20, 2017.

- NOTES:**
- EXISTING CONDITIONS ARE SHOWN PER OLDHAM VILLAGE PHASE I PLANS.
 - THERE IS NO VISIBLE EVIDENCE OF ABANDONED OIL OR GAS WELLS LOCATED WITHIN THE LOT 7 BOUNDARIES, AS IDENTIFIED IN "ENVIRONMENTAL IMPACT STUDY OF ABANDONED OIL AND GAS WELLS IN LEE'S SUMMIT, MISSOURI," EDWARD ALTON MAY JR., P.E., 1995.
 - THIS SMALLS SLIDERS PROJECT SHALL UTILIZE THE DETENTION BASIN FOR THE OLDHAM VILLAGE PHASE I DEVELOPMENT LOCATED OFF-SITE.

2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 jce@kveeng.com www.kveeng.com  KAW VALLEY ENGINEERING		SMALLS SLIDERS SW JEFFERSON CROSSING LEE'S SUMMIT, MISSOURI CIVIL CONSTRUCTION PLANS EXISTING CONDITIONS PLAN		PROJ. NO. A2502009 DESIGNER RCP DRAWN BY JP CFN 2009EC SHEET C-2 REV 1				REV DATE DESCRIPTION DSN DWN CHK		1 11-17-25 REVISED PER CITY COMMENTS RCP JP		0 10-16-25 PERMIT SET RCP JP			
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- CONSTRUCTION NOTES:
- COORDINATE START-UP AND ALL CONSTRUCTION ACTIVITIES WITH OWNER.
 - ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.
 - PUBLIC CONVENIENCE AND SAFETY: THE CONTRACTOR SHALL CONDUCT THE WORK IN A MANNER THAT WILL INSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC, AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC AND RESIDENTS ALONG AND ADJACENT TO HIGHWAYS IN THE CONSTRUCTION AREA.
 - ONE IN EIGHT ACCESSIBLE PARKING STALLS MUST HAVE A SIGN DESIGNATING "VAN-ACCESSIBLE". SEE DETAIL 102 AND 120.
 - ALL TRAFFIC CONTROL DEVICES, INSTALLATION AND OPERATIONS SHALL CONFORM WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
 - PAINT FOR STRIPING ON PUBLIC STREETS, HIGHWAYS AND ENTRANCES SHALL BE REFLECTORIZED PAINT CONFORMING TO THE SPECIFICATIONS OR REQUIREMENTS OF THE AUTHORITY GOVERNING THE STREET OR HIGHWAY.
 - ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813, WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL.
 - THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE APRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

- DETAILS - SEE DETAIL SHEET FOR THE FOLLOWING DETAILS
- 040 REGULAR DUTY PAVING (CONCRETE OR ASPHALT)
 - 041 HEAVY DUTY ASPHALT PAVING
 - 042 HEAVY DUTY CONCRETE PAVING
 - 055 CONCRETE SIDEWALK
 - 102 ACCESSIBLE STRIPING
 - 120 ACCESSIBLE PARKING SIGNAGE
 - 850 BIKE RACK
 - GEN-1 DRIVEWAY DETAIL
 - GEN-3A CITY OF LEE'S SUMMIT ADA RAMP DETAIL
 - GEN-4 CG-1 CONCRETE CURB AND GUTTER

- NOTES:
- 4A OUTDOOR DINING AREA
 - 48 OUTDOOR DINING CANOPY
 - 5H TRASH ENCLOSURE (SEE ARCH PLANS)
 - 7H LIGHT POLE (SEE PHOTOMETRIC PLAN)
 - 9A MENU BOARD CANOPY (SEE ARCH PLANS)
 - 9B DRIVE-THRU MENU BOARD (SEE ARCH PLANS)
 - 9C DRIVE-THRU CLEARANCE SIGN (SEE ARCH PLANS)
 - 12J STOP BAR
 - 12K PARKING LOT STRIPING
 - 12L TRAFFIC ARROW
 - 12M DASHED DRIVE-THRU STRIPING
 - 12N MERGE ARROW STRIPING
 - 14 TEMPORARY ASPHALT CURB
 - 16 MONUMENT SIGN
 - 43 ELECTRIC METER (SEE UTILITY PLAN)
 - 44 SWITCH GEAR (SEE UTILITY PLAN)
 - 45 TRANSFORMER PAD (SEE UTILITY PLAN)
 - 46 WATER METER (SEE UTILITY PLAN)
 - 47 GAS METER (SEE UTILITY PLAN)
 - 51 CLEAN-OUT (SEE UTILITY PLAN)
 - 52 GREASE INTERCEPTOR (SEE UTILITY PLAN)
 - 53 SAMPLING WELL (SEE UTILITY PLAN)
 - 60 CURB INLET (SEE GRADING PLAN)
 - 61 NYLOPLAST STRUCTURE (SEE GRADING PLAN)
 - 62 TRENCH DRAIN (SEE GRADING PLAN)

NOTE:

- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.
- ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.
- ACTUAL SIGN LOCATIONS TO BE COORDINATED WITH CONSTRUCTION MANAGER.

		RCP	UP	RCP	UP	RCP	UP	RCP	UP	RCP	UP	CHK
		RCP	UP	RCP	UP	RCP	UP	RCP	UP	RCP	UP	DSN
		REVISED PER CITY COMMENTS		REVISED PER CITY COMMENTS		REVISED PER CITY COMMENTS		REVISED PER CITY COMMENTS		REVISED PER CITY COMMENTS		
		1-5-26		12-12-25		11-17-25		10-16-25		PERMIT SET		
		3		2		1		0				
		REV		DATE		DESCRIPTION						

RANDALL C. PURDUE
ENGINEER
MO # PE-2022026740

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KAW VALLEY ENGINEERING

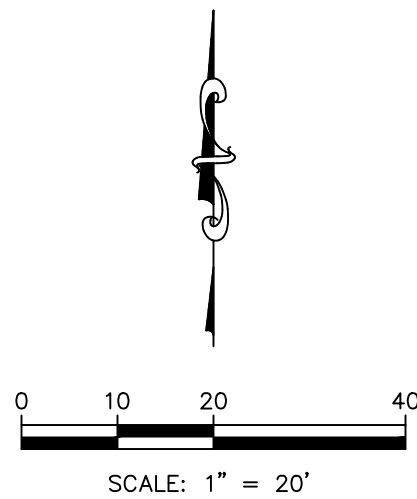
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/27

SMALLS SLIDERS
SW JEFFERSON CROSSING
LEE'S SUMMIT, MISSOURI

CIVIL CONSTRUCTION PLANS
SITE PLAN

PROJ. NO.	A2502009
DESIGNER	RCP
DRAWN BY	JP
CFN	
SHEET	2009SP
REV	
C-3	3

NOTE:
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
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3. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.
5. ACTUAL SIGN LOCATIONS TO BE COORDINATED WITH CONSTRUCTION MANAGER.



COORDINATE TABLE			
◇	NORTHING	EASTING	DESCRIPTION
1	995520.26	2823452.03	BOU
2	995426.81	2823397.84	BOU
3	995433.56	2823249.17	BOU
4	995595.97	2823163.67	BOU
5	995587.55	2823385.22	BOU
6	995635.24	2823398.59	BOU
7	995478.80	2823363.36	BLDG
8	995462.90	2823362.76	BLDG
9	995464.80	2823312.71	BLDG
10	995471.79	2823312.98	BLDG
11	995472.38	2823297.41	BLDG
12	995481.29	2823297.75	BLDG
13	995604.50	2823460.07	ER
14	995608.55	2823445.63	RP
15	995622.99	2823449.68	ER
16	995623.53	2823447.75	ER
17	995609.09	2823443.70	RP
18	995613.14	2823429.26	ER
19	995448.59	2823383.12	ER
20	995452.78	2823368.20	RP
21	995437.29	2823367.61	ER
22	995440.38	2823286.29	ER
23	995455.87	2823286.88	RP
24	995446.43	2823274.59	ER
25	995520.48	2823217.72	ER
26	995529.92	2823230.02	RP
27	995531.11	2823214.56	ER
28	995573.00	2823217.78	ER
29	995571.81	2823233.24	RP
30	995587.30	2823233.83	ER
31	995581.60	2823383.77	ER
32	995591.09	2823384.13	RP
33	995588.53	2823393.28	ER
34	995661.86	2823413.84	PI
35	995651.62	2823451.27	ER
36	995666.09	2823455.23	RP
37	995665.40	2823470.22	ER
38	995558.34	2823380.19	ER
39	995551.78	2823380.03	ER
40	995551.89	2823375.53	RP
41	995547.40	2823375.36	ER
42	995547.53	2823371.97	ER
43	995552.02	2823372.14	RP
44	995552.19	2823367.64	ER
45	995565.18	2823368.14	PI
46	995568.64	2823277.20	PI
47	995547.65	2823276.41	ER
48	995547.75	2823273.91	RP
49	995545.25	2823273.81	ER
50	995545.85	2823257.97	PI

COORDINATE TABLE			
◇	NORTHING	EASTING	DESCRIPTION
51	995529.86	2823257.39	PI
52	995529.43	2823268.71	ER
53	995526.93	2823268.61	RP
54	995526.84	2823271.11	ER
55	995508.75	2823270.42	ER
56	995508.81	2823268.93	RP
57	995507.89	2823267.74	ER
58	995531.41	2823249.68	ER
59	995543.28	2823265.14	RP
60	995544.78	2823245.70	ER
61	995550.08	2823246.11	ER
62	995548.58	2823265.55	RP
63	995568.07	2823266.29	ER
64	995567.73	2823275.17	PI
65	995571.71	2823275.32	PI
66	995568.07	2823371.06	ER
67	995558.58	2823370.70	RP
68	995519.62	2823368.79	ER
69	995519.30	2823377.45	ER
70	995514.80	2823377.28	RP
71	995513.59	2823381.61	ER
72	995465.74	2823368.25	ER
73	995466.95	2823363.91	RP
74	995462.46	2823363.74	ER
75	995464.83	2823301.10	ER
76	995479.32	2823301.65	RP
77	995470.49	2823290.15	ER
78	995480.81	2823282.23	PI
79	995483.86	2823286.19	PI
80	995500.22	2823273.62	PI
81	995505.76	2823272.77	EC
82	995502.23	2823365.75	PI
83	995517.22	2823366.31	ER
84	995517.12	2823368.81	RP
85	995652.34	2823461.22	RAMP
86	995619.72	2823455.63	RAMP
87	995492.65	2823395.47	RAMP
88	995497.78	2823377.18	RAMP
89	995513.72	2823366.18	RAMP

BOU = BOUNDARY CORNER
BLDG = BUILDING CORNER
RP = RADIUS POINT
PI = POINT OF INTERSECTION
ER = END RADIUS
EC = END OF CURB

SMALLS SLIDERS
SW JEFFERSON CROSSING
LEE'S SUMMIT, MISSOURI
CIVIL CONSTRUCTION PLANS
DIMENSION PLAN

PROJ. NO.		A2502009	
DESIGNER	RCP	DRAWN BY	JP
CFN		2009DIM	
SHEET	C-4	REV	1

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KV

KAW VALLEY ENGINEERING

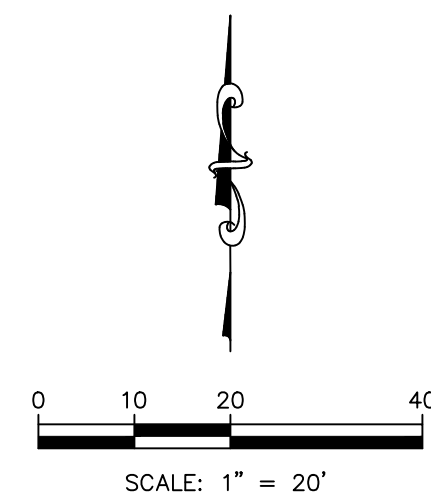
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/25

RANDALL C PURDUE
ENGINEER
MO # PE-2022026740

REV	DATE	DESCRIPTION
1	11-17-25	REVISED PER CITY COMMENTS
0	10-16-25	PERMIT SET

	RCP	CHK
	JP	DWN
	RCP	
	RCP	

THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC.



29.95 SPOT ELEVATION (ADD 1000),
X TOP OF PAVEMENT

31.50 TOP OF CURB (ADD 1000)
31.00 FLOWLINE OF CURB (ADD 1000)

 FLOW DIRECTION

FINISHED 1' CONTOUR INTERVALS, TOP OF PAVEMENT

— 1027 — 1' CONTOUR INTERVALS PER OLDHAM VILLAGE PHASE I PLANS

 NOTES:

21C MATCH PAVEMENT ELEVATIONS CONSTRUCTED
W/ OLDDHAM VILLAGE DEVELOPMENT PHASE I
24 GRADE TRASH ENCLOSURE TO DRAIN

GRADING NOTES:

1. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. BURNING OF TIMBER WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES.

2. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 8-INCH DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.

3. OFF-SITE FILL MATERIAL SHALL HAVE A PLASTICITY INDEX BETWEEN 10 AND 25, A LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN THREE INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO BRINGING ON SITE.

4. EARTHWORK UNDER THE BUILDING SHALL COMPLY WITH THE PROJECT ARCHITECTURAL PLANS AND THE GEOTECHNICAL REPORT DATED MAY 30, 2025 BY KAW VALLEY ENGINEERING. LVC SHALL BE PLACED 12" BELOW THE BUILDING SLAB AND 8" BELOW PAVEMENT. A MAJORITY OF THE STONE SHALL BE 6" OR LESS. THE REQUIRED DENSITY OF THE STONE SHALL BE MADE IN LIFT'S NOT TO EXCEED EIGHT INCHES. THE STONE SHALL BE COMPACTED TO 95% STANDARD DENSITY. FILL MATERIAL MAY INCLUDE ROCK FROM ON-SITE EXCAVATION IF CAREFULLY PLACED SO THAT LARGE STONES ARE WELL DISTRIBUTED AND VOIDS ARE COMPLETELY FILLED WITH SMALLER STONES. EARTH, SAND OR GRAVEL TO FURNISH A SOLID EMBANKMENT. NO ROCK SHALL BE PLACED IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 12 INCHES OF EMBANKMENT.

5. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A MODERATELY HEAVY LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.

6. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, A QUALIFIED GEOTECHNICAL ENGINEER SHALL RECOMMEND TO THE ENGINEER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

8. ALL SLOPES ARE TO BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED.

9. ALL SLOPES EXCEEDING 3:1 SHALL BE PROTECTED BY RIP RAP, CONCRETE PAVING, OR OTHER METHODS INDICATED ON THESE PLANS, THAT WILL PREVENT EROSION AND PLACED SUCH THAT THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED.

10. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON-SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

11. CONTRACTOR SHALL USE SILT FENCE, STRAW WATTLES OR OTHER MEANS OF CONTROLLING EROSION ALONG THE EDGE OF THE PROPERTY OR OTHER BOTTOM OF SLOPE LOCATIONS.

12. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIAL RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.

13. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.

14. IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.

15. THE SITEWORK FOR THIS PROJECT SHALL MEET OR EXCEED STANDARD SITEWORK SPECIFICATIONS.

16. PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURE OR TO END OF END SECTIONS.

17. HANDICAP STALLS SHALL MEET ADA REQUIREMENTS AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION AT THE BUILDING ENTRY AND ACCESSIBLE PARKING STALLS. SLOPES EXCEEDING 2.0% WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

NOTE:

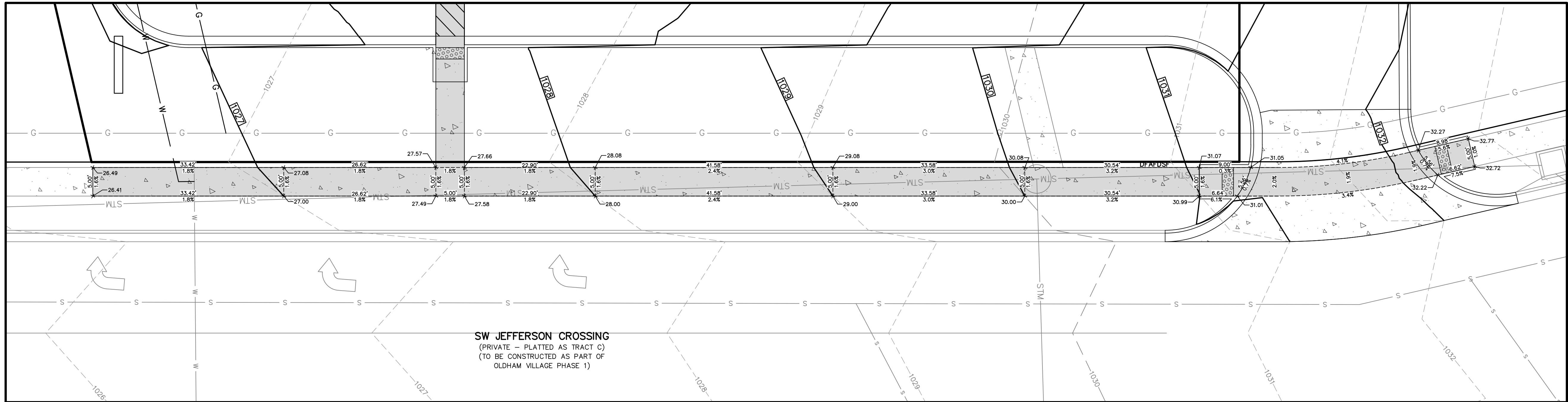
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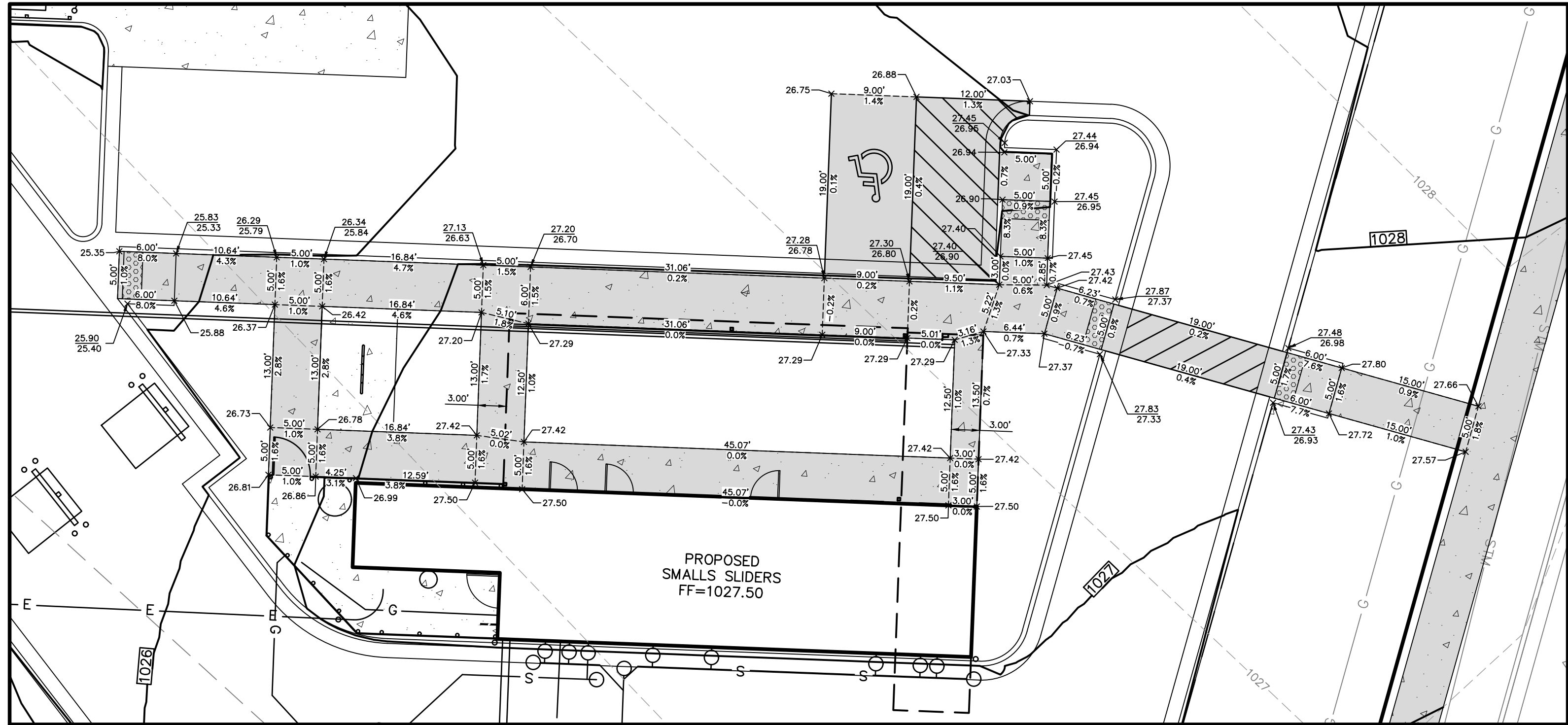
SEE SHEET C-6 FOR STORM
SEWER PLAN & PROFILES

IF DISCREPANCIES EXIST BETWEEN THE GRADING NOTES HEREON AND THE RECOMMENDATIONS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT, THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT SHALL GOVERN.

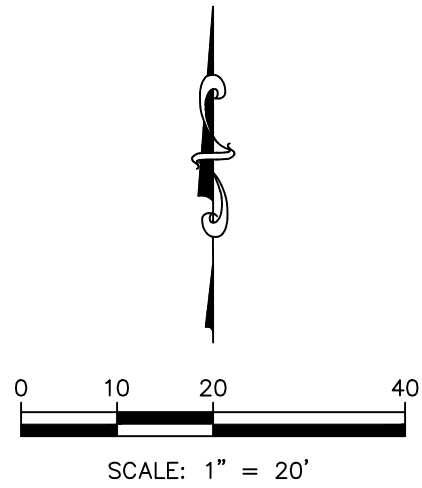
SMALLS SLIDERS											
SW JEFFERSON CROSSING											
LEE'S SUMMIT, MISSOURI											
PROJ. NO.						A25D2009					
DESIGNER						DRAWN BY					
RCP						JP					
CFN											
2009GP											
SHEET						REV					
C-5						1					
CIVIL CONSTRUCTION PLANS											
GRADING PLAN											



ENLARGED VIEW 1 -- ADA ROUTE



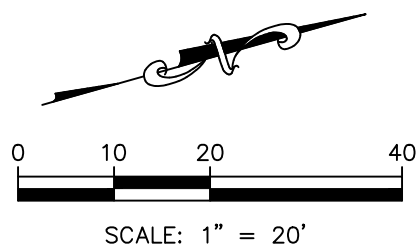
ENLARGED VIEW 2 -- ADA ROUTE



LEGEND (PROPOSED)

- 29.95 SPOT ELEVATION (ADD 1000),
X
TOP OF PAVEMENT
- 31.50 TOP OF CURB (ADD 1000)
31.00 FLOWLINE OF CURB (ADD 1000)
- FLOW DIRECTION
- 1027 FINISHED 1' CONTOUR INTERVALS, TOP OF PAVEMENT
- 1027 1' CONTOUR INTERVALS PER OLDDHAM VILLAGE PHASE I PLANS
- ADA PATH

SHEET ADDED



SMALLS SLIDERS
SW JEFFERSON CROSSING
LEE'S SUMMIT, MISSOURI
CIVIL CONSTRUCTION PLANS
GRADING PLAN

PROJ. NO.	A2502009
DESIGNER	RCP
DRAWN BY	JP
CFN	
SHEET	REV
C-5A	1

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K&W KAW VALLEY ENGINEERING

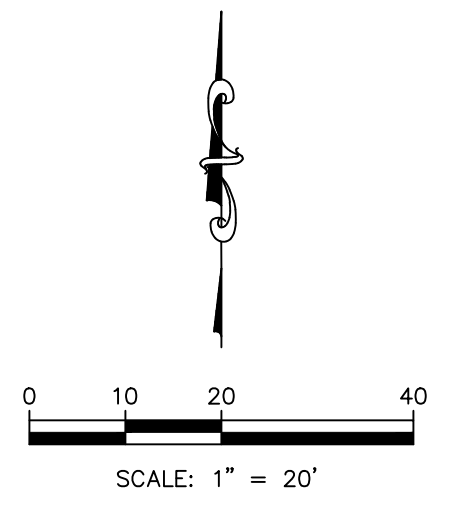
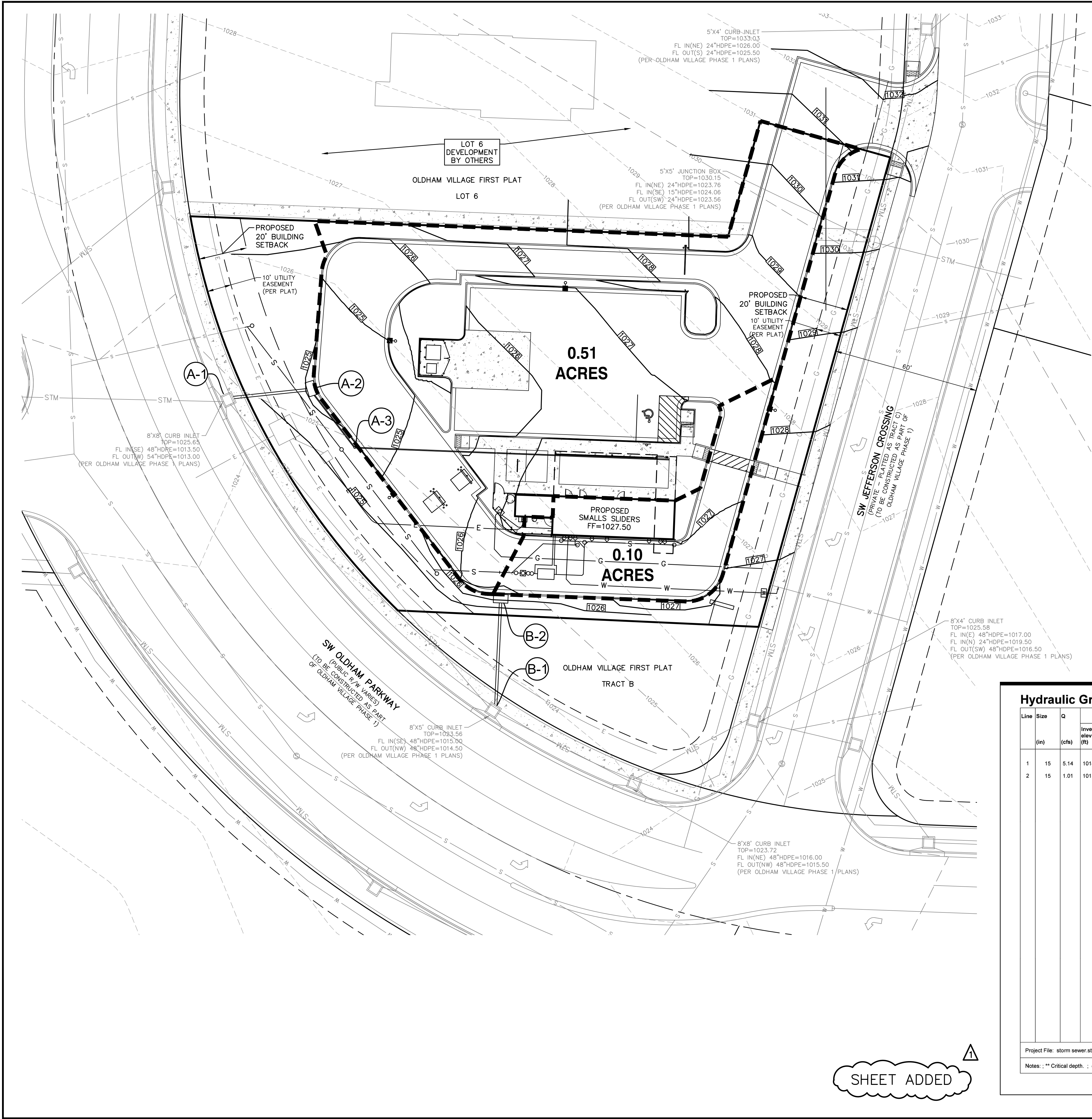
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RANDALL C PURDUE
ENGINEER
MO # PE-2022026740



REV	DATE	DESCRIPTION
1	11-17-25	REVISED PER CLIENT COMMENTS

	RCP	CHK
	JP	DWN
	RCP	DSN



- LEGEND (PROPOSED)
- DRAINAGE AREA BOUNDARY
 - (A-2) STRUCTURE IDENTIFIER

Hydraulic Grade Line Computations																						
Line	Size	Q	Downstream								Len	Upstream								Check		Minor loss
			Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)		Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	Ave Sf (%)	Enrgy loss (ft)	
1	15	5.14	1014.25	1014.89	0.64	0.63	8.14	0.44	1015.33	0.000	32.000	1014.89	1015.81	0.92**	0.97	5.32	0.44	1016.25	0.000	0.000	n/a	0.44
2	15	1.01	1015.00	1015.35	0.35	0.28	3.58	0.14	1015.49	0.000	43.000	1015.86	1016.25	0.39**	0.33	3.04	0.14	1016.40	0.000	0.000	n/a	0.14

Project File: storm sewer.stm

Number of lines: 2

Run Date: 5/15/2025

Notes: ; ** Critical depth. ; c = cir e = ellip b = box

Storm Sewers v2021.00

SHEET ADDED

PROJ. NO. A2502009

DESIGNER RCP

CFN 2009DAM

SHEET C-5B

DRAWN BY JP

REV

SMALLS SLIDERS
SW JEFFERSON CROSSING
LEE'S SUMMIT, MISSOURI

CIVIL CONSTRUCTION PLANS
DRAINAGE AREA MAP

STATE OF MISSOURI
RANDALL C. PURDUE
Professional Engineer
NUMBER PE-2022026740
11/1/20

RANDALL C. PURDUE
ENGINEER
MO # PE-2022026740

2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
TEL: (785) 762-5040
jcp@kveeng.com | www.kveeng.com

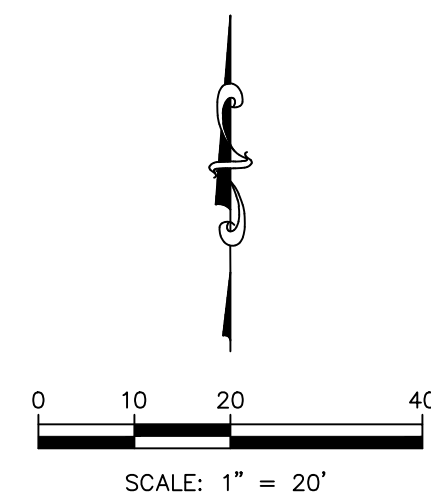
KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/25

REV 1

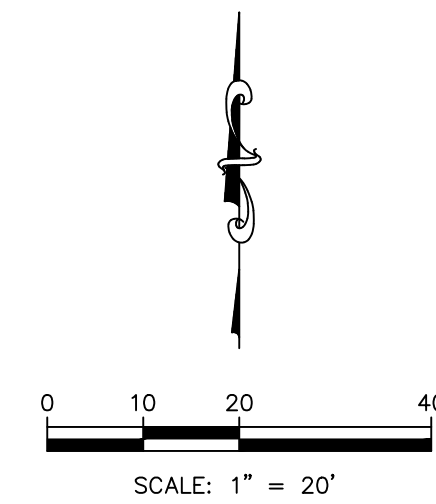
DATE 11-17-25

REVISION PER CLIENT COMMENTS

DESCRIPTION DSN DWN CHK



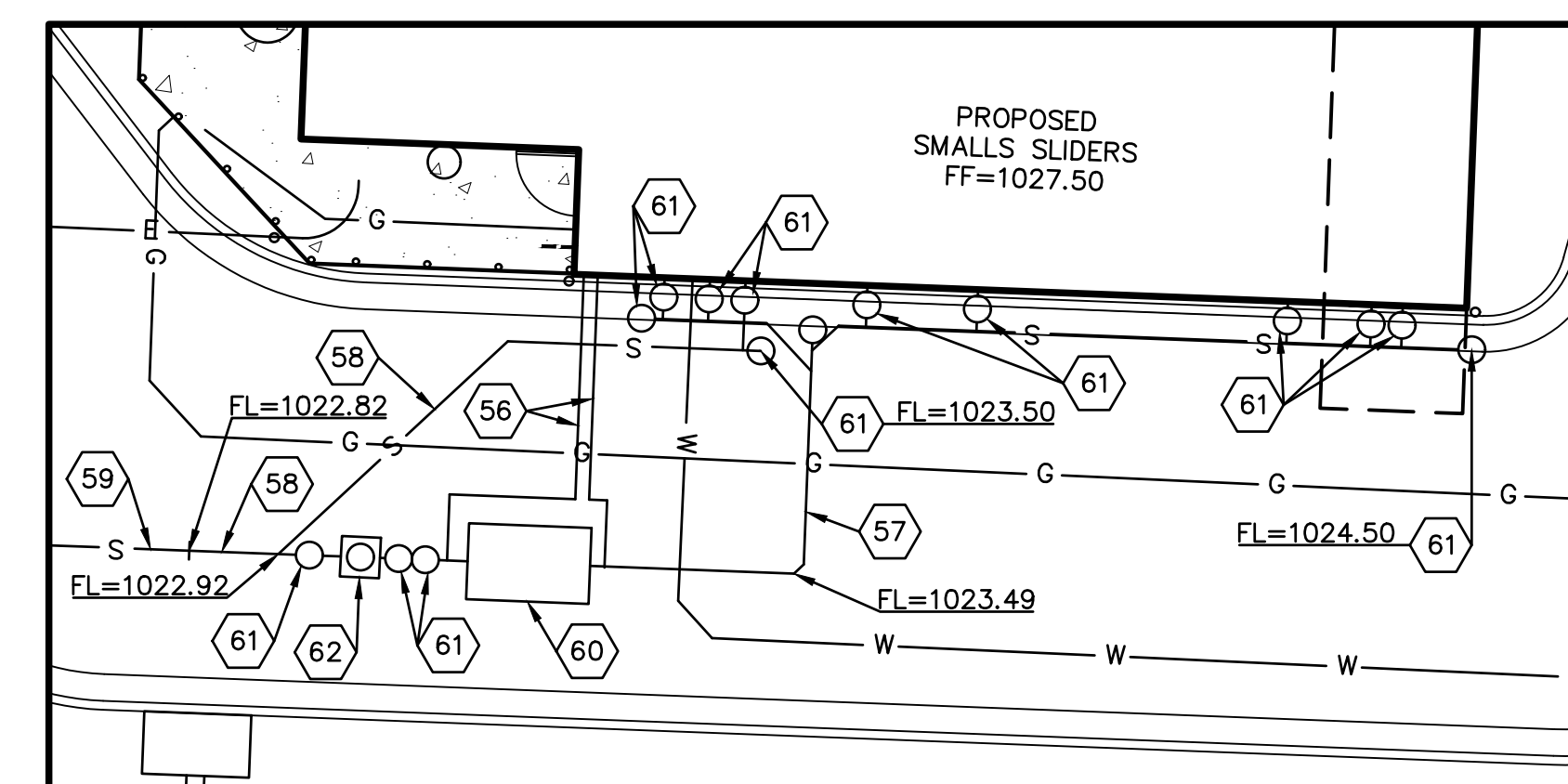
SMALLS SLIDERS SW JEFFERSON CROSSING LEE'S SUMMIT, MISSOURI		PROJ. NO. A25D2009	
		DESIGNER RCP	DRAWN BY JP
CFN 2009ECP		REV 1	
SHEET C-7		REV 1	



10. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN PARALLEL WATER (MAINS AND SERVICE) AND GRAVITY SANITARY SEWER (MAINS AND SERVICE) LINES. WHEN IT IS NECESSARY FOR ANY WATER LINE TO CROSS A GRAVITY SANITARY SEWER LINE, THE SEWER LINE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE AT LEAST 12 FEET EITHER SIDE OF THE WATER LINE. WHEN A WATER LINE (SERVICE LINE) CROSSES A GRAVITY SANITARY SEWER LINE, WHERE A WATER LINE (SERVICE LINE) CROSSES A NEW (EXISTING) FORCE MAIN (FORCE SERVICE LINE), THE WATER LINE (SERVICE LINE) MUST ALWAYS CROSS OVER THE FORCE MAIN (FORCE SERVICE LINE) WITH A MINIMUM VERTICAL SEPARATION DISTANCE OF 2 FEET. JOINTS IN THE WATER LINE (SERVICE LINE) JOINTS ARE TO BE LOCATED AS FAR AS POSSIBLE FROM THE INTERSECTED WATER LINE.

206 TRENCH & BEDDING DETAILS
WAT-11 WATER SERVICE CONNECTION WITH METER WELL

17A POINT OF CONNECTION - GAS SERVICE (COORDINATE W/ SPIRE)
17B GAS SERVICE (BY SPIRE)
17C GAS METER
19A POINT OF CONNECTION - ELECTRIC SERVICE (COORDINATE W/ EVERY)
19B UNDERGROUND POWER PER EVERY
19C SWITNGEAR BY EVERY
19D TRANSFORMER BY EVERY
19E ELECTRIC METER
20B 1" DOMESTIC TYPE "K" COPPER WATER LINE INSTALLED BY CONTRACTOR
20C 1" WATER METER
20D PUBLIC FIRE HYDRANT PER OLDHAM VILLAGE PHASE I PLANS
56 2" VENT PIPING (SEE MEP PLANS)
57 4" GREASE WASTE SERVICE LINE (SEE MEP PLANS)
58 4" SANITARY SEWER SERVICE LINE (SEE MEP PLANS)
59 4" SANITARY SEWER SERVICE LINE (SEE SANITARY SEWER SERVICE LINE PLAN & PROFILE)
60 GREASE INTERCEPTOR (SEE MEP PLANS)
61 CLEAN-OUT (SEE MEP PLANS)
61A CLEAN-OUT (SEE SANITARY SEWER SERVICE LINE PLAN & PROFILE)
62 SAMPLING PORT (SEE MEP PLANS)



ENLARGED VIEW
SCALE: 1" = 10'

SEE SHEET C-9 FOR SANITARY
SEWER SERVICE LINE PLAN & PROFILE

SMALLS SLIDERS SW JEFFERSON CROSSING LEE'S SUMMIT, MISSOURI		KAW VALLEY ENGINEERING 2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 jse@kvweng.com www.kvweng.com				RANDALL C PURDUE ENGINEER MO # PE-2022026740					
CIVIL CONSTRUCTION PLANS UTILITY PLAN		KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/27									
PROJ. NO.		A25D2009									
DESIGNER		RCP		DRAWN BY		JP					
CFN											
SHEET		2009UP		REV							
C-8				3							

