At this time the Courthouse is open to the public. Anyone wishing to attend will need to call ahead at 913-684-0417 to reserve a seat as the meeting room has limited capacity. All visitors will be required to wear a mask. We are encouraging everyone to continue to view the meeting live via YouTube.

# Leavenworth County Board of County Commissioners 

## Regular Meeting Agenda

300 Walnut Street, Suite 225
Leavenworth, KS 66048
December 23, 2020
9:00 a.m.

## I. CALL TO ORDER

## II. PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE

III. ROLL CALL
IV. PUBLIC COMMENT: Public Comment shall be limited to 15 minutes at the beginning of each meeting for agenda items only and limited to three minutes per person.
Comments at the end of the meeting shall be open to any topic of general interest to the Board of County Commissioners and limited to five minutes per person. There should be no expectation of interaction by the Commission during this time.

Anyone wishing to make comments either on items on the agenda or not are encouraged to provide their comments in writing no later than 8:00 AM the Monday immediately preceding the meeting. These comments will be included in the agenda packet for everyone to access and review. This allows the Commission to have time to fully consider input and request follow up if needed prior to the meeting.

## V. ADMINISTRATIVE BUSINESS:

VI. CONSENT AGENDA: The items on the Consent Agenda are considered by staff to be routine business items. Approval of the items may be made by a single motion, seconded, and a majority vote with no separate discussion of any item listed. Should a member of the Governing Body desire to discuss any item, it will be removed from the Consent Agenda and considered separately.
a) Approval of the minutes of December 16, 2020
b) Approval of the schedule for the week December 28, 2020
c) Approval of the check register
d) Approve and sign the OCB's
e) Approve Case Number DEV-20-126 \& 127 Plat for Sheehan Farms

## VII. FORMAL BOARD ACTION:

a) Consider a motion to approve budget amendments as presented by the County Clerk.
b) Consider a motion to approve Board Order 2020-9, transferring funds from the Road \& Bridge Fund to the Capital Road Fund in the amount of $\$ 1,200,000.00$.
c) Consider a motion to approve Board Order 2020-10, transferring funds from the Solid Waste operating fund to the Capital Improvement Fund in the amount of \$11,585.00.
d) Consider a motion to approve Board Order 2020-11, transferring funds from the Special Building, Buildings and Grounds fund to the Capital Improvement Fund in the amount of $\$ 16,800.00$.
e) Consider a motion to approve Board Order 2020-12, transferring funds from the Election Fund to the Equipment Reserve Fund in the amount of $\$ 25,000.00$.
f) Consider a motion to approve Board Order 2020-13, transferring funds from the Register of Deeds Technology Fund to the County Commissioners/ROD Tech Fund in the Equipment Reserve Fund in the amount of \$70,260.00.
g) Consider a motion to approve Board Order 2020-14, transferring funds from the Special Building, Justice Center Fund to the Capital Improvement Fund in the amount of $\$ 15,000.00$.
h) Consider a motion to approve Resolution 2020-49, waiving the requirements of K.S.A. 75-1120a(a) as they apply to the County of Leavenworth for the year ended 2020.
i) Consider a motion to approve Board Order 2020-15, appointing Dr. Alan Martinez and Dr. John Ralston as deputy district coroners for the First Judicial District.
j) Consider a motion to approve an agreement for maintenance of roads along the county lines for Leavenworth and Jefferson County.
k) Consider a motion to approve Case Number DEV-20-107 \& 108, a preliminary and final plat for Linwood South Elementary School.
VIII. PRESENTATIONS AND DISCUSSION ITEMS: presentations are materials of general concern where no action or vote is requested or anticipated.
IX. ADDITIONAL PUBLIC COMMENT IF NEEDED
X. ADJOURNMENT

# LEAVENWORTH COUNTY COMMISSIONERS MEETING SCHEDULE 

## Monday, December 21, 2020

Tuesday, December 22, 2020

Wednesday, December 23, 2020

9:00 a.m. Leavenworth County Commission meeting

- Commission Meeting Room, 300 Walnut, Leavenworth KS

Thursday, December 24, 2020 THE COURTHOUSE WILL BE CLOSED IN OBSERVANCE OF CHRISTMAS

Friday, December 25, 2020 THE COURTHOUSE WILL BE CLOSED IN OBSERVANCE OF CHRISTMAS

The Board of County Commissioners met in a regular session on Wednesday, December 16, 2020. Commissioner Smith, Commissioner Stieben, Commissioner Kaaz, Commissioner Schimke and Commissioner Culbertson are present; Also present: Mark Loughry, County Administrator; David Van Parys, Senior County Counselor; Krystal Voth, Planning and Zoning Director; Bill Noll, Infrastructure and Construction Services; Commissioner-Elect Mike Smith

Residents: John Matthews, Anne Brockhoff, Christine Crews, Joe Herring, Russell Phelps

## PUBLIC COMMENT:

There were no public comments.

## ADMINISTRATIVE BUSINESS:

Mark Loughry requested approval of a cereal malt beverage license for Lakestop located at $158^{\text {th }}$ and K-32.
A motion was made by Commissioner Schimke and seconded by Commissioner Kaaz to authorize the chairman to sign the cereal malt beverage license for Lakestop at $158^{\text {th }}$ and K-32.

Motion passed, 5-0.

Mr. Loughry indicated yesterday was the deadline for CARES Act Funds submissions
A motion was made by Commissioner Stieben and seconded by Commissioner Culbertson to authorize Mr. Bill Noll, the director of ICS, to designate a surveyor or surveyors for the purpose of reviewing subdivision plats and executing such other acts relating to the duties of the county surveyor as provided for by K.S.A. 58-2005.

Motion passed, 5-0.
Mr. Loughry reported yesterday was the deadline for submission for the CARES Act Funding.
David Van Parys requested to authorize Bill Noll to designate a surveyor to sign off on plats.
A motion was made by Commissioner Stieben and seconded by Commissioner Culbertson to appoint Motion passed, 5-0.

Commissioner Kaaz requested to remove the check registry from the consent agenda.
A motion was made by Commissioner Culbertson and seconded by Commissioner Schimke to accept the consent agenda for Wednesday, December 16, 2020 minus the check registry as presented. Motion passed, 5-0.

A motion was made by Commissioner Culbertson and seconded by Commissioner Schimke to accept the consent agenda check registry.

Motion passed, 4-0, Commissioner Kaaz abstained.
Bill Noll requested approval of a contract with Finney and Turnipseed for the construction inspection services of Bridge $\mathrm{SH}-30$.

A motion was made by Commissioner Kaaz and seconded by Commissioner Stieben to approve inspection services awarded to Finney and Turnipseed.

Motion passed, 5-0.
Mr. Noll requested to engage Bartlett and West to investigate the premature asphalt pavement cracking on dust abatement groups $2,4,5$ and 7 .

A motion was made by Commissioner Kaaz and seconded by Commissioner Schimke to approve Bartlett and West to investigation the premature asphalt failure of the dust abatement projects 2,4, 5 and 7.

Motion passed, 5-0.
Mr. Noll updated the Board on the intersection of K-32 and $158^{\text {th }}$ indicating the KDOT's traffic investigation report does not warrant a stop light. KDOT will install stop bars, more signage and reducing the advisory speed limit.

Mr. Noll reported that the city of Basehor's projects moved through the next stage with MARC on the $155^{\text {th }}$ Street improvement and a trail.

Krystal Voth presented Resolution 2020-39, the adoption of the 2006 International Building Codes and 2006 International Residential Codes.

A motion was made by Commissioner Stieben and seconded by Commissioner Kaaz to approve Resolution 2020-39, adopting 2006 International Building Codes and 2006 International Residential Codes for one and two- family dwellings with certain modifications with a start date of January 1, 2021.

Commissioner Culbertson requested that Easton and Kickapoo townships be excluded from the building codes resolution.

Motion failed, 2-3, Commissioners Schimke, Smith and Culbertson voted nay.
A motion was made by Commissioner Culbertson and seconded by Commissioner Kaaz to approve Resolution 2020-39, adopting the 2006 International Building Codes excluding Easton and Kickapoo townships from said resolution with an effective date of January 1, 2021.

Motion passed, 4-1 Commissioner Schimke voted nay.
Ms. Voth presented Resolution 2020-48, adopting the rezoning of County Road 1 that would follow the adopted land use A map.

Commissioner Smith opened the public hearing.
Don Budd's email was recognized.
Anne Brockhoff spoke in opposition.
Christine Crews spoke in opposition.
Commissioner Smith closed the public hearing.
A motion was made by Commissioner Stieben and seconded by Commissioner Kaaz that the rezoning map to be incorporated into the resolution as Exhibit "A" and the subsequent rezoning be amended to exclude from rezoning all of the area south of Hemphill Road with the exception of that area immediately near the intersection of County Road 1 and the turnpike that area amended to light
industrial and my motion to disapprove the recommendation of the Planning Commission as submitted and to refer the matter back to the Planning Commission with direction to review the changes proposed as well as changes as may be justified by recently adopted County Comprehensive Plan

Motion failed, 2-3 Commissioners Schimke, Culbertson and Kaaz voted nay.
A motion was made by Commissioner Kaaz and seconded by Commissioner Culbertson to approve Resolution 2020-48.

Motion passed, 3-2 Commissioners Stieben and Smith voted nay
Commissioner Kaaz participated in Kansas Beats the Virus meeting promoting face coverings. She will participate in a Zoom meeting this evening with the same group and the medical director who will be working on plan to encourage people to use the vaccine. She participated in a Zoom meeting with Connection for Success geared toward the youth.

Commissioner Culbertson met with the city of Easton to work on getting CARES ACT funds finalized.
Commissioner Schimke reported he is trying to get on the city of Leavenworth agenda to discuss a study regarding dispatch services.

Commissioner Smith participated in the MARC meeting via Zoom.
Commissioner Culbertson will be participating in the LCPA meeting tomorrow.
A motion was made by Commissioner Kaaz and seconded by Commissioner Culbertson to adjourn. Motion passed, 5-0.

The Board adjourned at 11:12 a.m.

# LEAVENWORTH COUNTY COMMISSIONERS MEETING SCHEDULE 

## Monday, December 28, 2020

Tuesday, December 29, 2020

Wednesday, December 30, 2020

9:00 a.m. Leavenworth County Commission meeting

- Commission Meeting Room, 300 Walnut, Leavenworth KS

Thursday, December 31, 2020

Friday, January 1, 2021 THE COURTHOUSE WILL BE CLOSED IN OBSERVANCE OF NEW YEAR'S DAY

|  |  |  | P.O.NUMBER | CHECK\# |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 249 | ADVANCED HEALTH | ATCHISON HOSPITAL | 317358 | 90635 | AP | 12/15/2020 | 0-001-5-28-212 |
| 20588 | ADVANTAGE | ADVAntage Printing | 317416 | 90681 | AP | 12/16/2020 | 0-001-5-14-301 |
| 2167 | ASTROPHYSICS INC | ASTROPHYSICS INC | 317359 | 90636 | AP | 12/15/2020 | 0-001-5-14-259 |
| 338 | BEAR GRAPHICS | BEAR GRAPHICS INC | 317417 | 90682 | AP | 12/16/2020 | 0-001-5-41-306 |
| 6400 | BRYANT John | BRYANT LAW Office pa | 317363 | 90640 | AP | 12/15/2020 | 0-001-5-09-231 |
| 24545 | CDW GOVERN | CDW Government inc | 317365 | 90642 | AP | 12/15/2020 | 0-001-5-18-301 |
| 28831 | Ce water management | CE WATER MANAGEMENT INC | 317366 | 90643 | AP | 12/15/2020 | 0-001-5-31-290 |
| 28831 | Ce water management | CE WATER MANAGEMENT INC | 317366 | 90643 | AP | 12/15/2020 | 0-001-5-32-268 |
| 5447 | CITY WIDE MAINTENANC | CITY WIDE MAINTENANCE | 317367 | 90644 | AP | 12/15/2020 | 0-001-5-32-296 |
| 5637 | CLEARWATER ENTERPRIS | CLEARWATER ENTERPRISES, LLC | 317368 | 90645 | AP | 12/15/2020 | 0-001-5-05-215 |
| 5637 | CLEARWATER ENTERPRIS | CLEARWATER ENTERPRISES, LLC | 317368 | 90645 | AP | 12/15/2020 | 0-001-5-14-220 |
| 5637 | CLEARWATER ENTERPRIS | CLEARWATER ENTERPRISES, LLC | 317368 | 90645 | AP | 12/15/2020 | 0-001-5-32-392 |
| 2395 | CMH PROFESSIONAL GRO | CMH PROFESSIONAL GROUP | 317369 | 90646 | AP | 12/15/2020 | 0-001-5-14-321 |
| 2395 | CMH PROFESSIONAL GRO | CMH PROFESSIONAL GROUP | 317369 | 90646 | AP | 12/15/2020 | 0-001-5-14-321 |
| 2395 | CMH PROFESSIONAL GRO | CMH PROFESSIONAL GROUP | 317369 | 90646 | AP | 12/15/2020 | 0-001-5-14-321 |
| 2395 | CMH PROFESSIONAL GRO | CMH PROFESSIONAL GROUP | 317369 | 90646 | AP | 12/15/2020 | 0-001-5-14-321 |
| 2395 | CMH PROFESSIONAL GRO | CMH PROFESSIONAL GROUP | 317369 | 90646 | AP | 12/15/2020 | 0-001-5-14-321 |
| 2395 | CMH PROFESSIONAL GRO | CMH PROFESSIONAL GROUP | 317369 | 90646 | AP | 12/15/2020 | 0-001-5-14-321 |
| 2395 | CMH PROFESSIONAL GRO | CMH PROFESSIONAL GROUP | 317369 | 90646 | AP | 12/15/2020 | 0-001-5-14-321 |
| 2395 | CMH PROFESSIONAL GRO | CMH PROFESSIONAL GROUP | 317369 | 90646 | AP | 12/15/2020 | 0-001-5-14-321 |
| 2395 | CMH PROFESSIONAL GRO | CMH PROFESSIONAL GROUP | 317369 | 90646 | AP | 12/15/2020 | 0-001-5-14-321 |
| 2395 | CMH PROFESSIONAL GRO | CMH PROFESSIONAL GROUP | 317369 | 90646 | AP | 12/15/2020 | 0-001-5-14-321 |
| 2395 | CMH PROFESSIONAL GRO | CMH PROFESSIONAL GROUP | 317369 | 90646 | AP | 12/15/2020 | 0-001-5-14-321 |
| 2395 | CMH PROFESSIONAL GRO | CMH PROFESSIONAL GROUP | 317369 | 90646 | AP | 12/15/2020 | 0-001-5-14-321 |
| 22543 | COMPLETE FAMILY CARE | COMPLETE FAMILY CARE | 317370 | 90647 | AP | 12/15/2020 | 0-001-5-05-201 |
| 156 | CONVERGEONE | CONVERGEONE INC | 317371 | 90648 | AP | 12/15/2020 | 0-001-5-18-220 |
| 24000 | CUSTOM EARPIECE | CUSTOM EARPIECE | 317419 | 90684 | AP | 12/16/2020 | 0-001-5-07-359 |
| 5362 | DIAMOND DRUGS | DIAMOND DRUGS, INC | 317420 | 90685 | AP | 12/16/2020 | 0-001-5-07-219 |
| 1219 | DISt CT CLERK LV | CLERK OF DIST COURT-LEAV | 317373 | 90650 | AP | 12/15/2020 | 0-001-5-11-501 |
| 30100 | ELECTION WORKER | ROBERT DAVIDS | 317421 | 90686 | AP | 12/16/2020 | 0-001-5-49-341 |
| 30100 | ELECTION WORKER | ROBERT DAVIDS | 317421 | 90686 | AP | 12/16/2020 | 0-001-5-49-341 |
| 30100 | ELECTION WORKER | Robert davids | 317421 | 90686 | AP | 12/16/2020 | 0-001-5-49-341 |
| 30100 | ELECTION WORKER | VICTORIA DAVIDS | 317422 | 90687 | AP | 12/16/2020 | 0-001-5-49-341 |
| 81 | FULLER G | GARY L FULLER ATTY | 317374 | 90651 | AP | 12/15/2020 | 0-001-5-09-231 |
| 243 | GEOTAB | GEOTAB USA INC | 317375 | 90652 | AP | 12/15/2020 | 0-001-5-14-340 |
| 22605 | HINCKLEY S | HINCKLEY SPRINGS | 317378 | 90655 | AP | 12/15/2020 | 0-001-5-11-208 |
| 191 | HOME DEPOT | HOME DEPOT USA | 317424 | 90689 | AP | 12/16/2020 | 0-001-5-07-305 |
| 8416 | IRON MOUNTAIN | IRON MOUNTAIN INC | 317380 | 90657 | AP | 12/15/2020 | 0-001-5-11-208 |
| 2017 | KANSAS BAR | KANSAS BAR ASSOCIATION | 317381 | 90658 | AP | 12/15/2020 | 0-001-5-11-203 |
| 2017 | KANSAS BAR | KANSAS BAR ASSOCIATION | 317381 | 90658 | AP | 12/15/2020 | 0-001-5-11-203 |
| 26400 | KANSAS GAS | KANSAS GAS SERVICE | 317382 | 90659 | AP | 12/15/2020 | 0-001-5-14-220 |
| 26400 | KANSAS GAS | KANSAS GAS SERVICE | 317382 | 90659 | AP | 12/15/2020 | 0-001-5-32-392 |
| 3197 | KLM | LeAgue of ks municipalities | 317383 | 90660 | AP | 12/15/2020 | 0-001-5-14-203 |
| 3197 | KLM | LeAgue of kS municipalities | 317383 | 90660 | AP | 12/15/2020 | 0-001-5-14-203 |
| 2111 | LIFTOFF | LIFTOFF, LLC | 317385 | 90662 | AP | 12/15/2020 | 0-001-5-18-254 |


| NOVEMBER DRUG SCREENS, PHYS CA | 640.00 |  |
| :---: | :---: | :---: |
| ACCTS PAYABLE CHECKS OVERS | 36.72 |  |
| 1447 X-RAY INSPECTION SYSTEM | 57,158.90 |  |
| 7000 PERSONAL PROPERTY ENVELOP | 1,868.29 |  |
| COURT APPOINTED ATTORNEY | 3,000.00 |  |
| 3773122 TAPE MEDIA | 2,615.81 |  |
| LVCO QUARTERLY WATER TREATMENT | 75.00 |  |
| LVCO QUARTERLY WATER TREATMENT | 120.00 |  |
| *** VENDOR 28831 TOTAL |  | 195.00 |
| 01001100496 JC JANITORIAL SVC | 5,367.00 |  |
| 342-0317B242442011 GAS SERVICE | 26.46 |  |
| 342-12094264312011 CH GAS SERV | 1,379.95 |  |
| 342-12095329382011 GAS SERVICE | 2,272.60 |  |
| *** VENDOR 5637 TOTAL |  | 3,679.01 |
| SEXUAL ASSAULT EVIDENCE KIT CO | 725.00 |  |
| SEXUAL ASSAULT EVIDENCE KIT CO | 725.00 |  |
| SEXUAL ASSAULT EVIDENCE KIT CO | 725.00 |  |
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| SEXUAL ASSAULT EVIDENCE KIt co | 725.00 |  |
| SEXUAL ASSAULT EVIDENCE KIT CO | 725.00 |  |
| SEXUAL ASSAULT EVIDENCE KIT CO | 725.00 |  |
| *** VENDOR 2395 TOTAL |  | 8,700.00 |
| EMS MEDICAL DIRECTOR | 1,250.00 |  |
| AOSLVCO0001 PROFESSIONAL SERVI | 3,387.50 |  |
| 558112 M2TRAC EARPIECES FOR J | 396.46 |  |
| KSLV NOV INMATE PRESCRIPTIONS | 880.54 |  |
| COUNTY ATTORNEY COURT COSTS | 2,646.50 |  |
| THANK YOU, ELECTION WORKER! | 135.00 |  |
| THANK YOU, ELECTION WORKER! | 15.00 |  |
| THANK YOU, ELECTION WORKER! | 125.00 |  |
| THANK YOU, ELECTION WORKER! | 202.50 |  |
| *** VENDOR 30100 TOTAL |  | 477.50 |
| COURT APPOINTED ATTORNEY | 3,000.00 |  |
| EfMA01-LEAV CO REGION 1 PRO P | 113.22 |  |
| 17137512660768 FILTRATION SYST | 45.25 |  |
| 1137682 PLATFORM CART FOR MAIN | 401.67 |  |
| IRON MOUNTAIN SHREDDING RSVP8/ | 20.00 |  |
| 2021 DUES | 170.00 |  |
| 2021 DUES | 170.00 |  |
| *** VENDOR 2017 TOTAL |  | 340.00 |
| 510614745162863173 GAS TRANS | 818.03 |  |
| 510614745162863173 GAS TRANS | 1,264.40 |  |
| *** VENDOR 26400 TOTAL |  | 2,082.43 |
| 2021 DUES | 899.34 |  |
| 2021 DUES | 750.00 |  |
| *** VENDOR 3197 TOTAL |  | 1,649.34 |
| SW21855514 SOFTWARE SUB | 135.00 |  |


warrants by vendor

| 5637 | CLEARWATER ENTERPRIS |
| ---: | :--- |
| 434 | HAMM QUARR |
| 434 | HAMM QUARR |
| 434 | HAMM QUARR |
| 434 | HAMM QUARR |
| 434 | HAMM QUARR |
|  |  |
| 196 | OLSSON |
| 632 | RWD 8 |
| 347 | WINTER EQUIPMENT |
| 347 | WINTER EQUIPMENT |


| CLEARWATER ENTERPRISES, LLC | 317368 | 90645 AP | $12 / 15 / 2020$ | $0-133-5-00-304$ |
| :--- | :--- | :--- | :--- | :--- |
| HAMM QUARRIES | 317376 | 90653 AP | $12 / 15 / 2020$ | $0-133-5-00-361$ |
| HAMM QUARRIES | 317376 | 90653 AP | $12 / 15 / 2020$ | $0-133-5-00-361$ |
| HAMM QUARRIES | 317376 | 90653 AP | $12 / 15 / 2020$ | $0-133-5-00-361$ |
| HAMM QUARRIES | 317376 | 90653 AP | $12 / 15 / 2020$ | $0-133-5-00-361$ |
| HAMM QUARRIES | 317376 | 90653 AP | $12 / 15 / 2020$ | $0-133-5-00-361$ |
|  |  |  |  |  |
| OLSSON, INC | 317390 | 90667 AP | $12 / 15 / 2020$ | $0-133-5-00-213$ |
| RURAL WATER DIST NO 8 | 317395 | 90672 AP | $12 / 15 / 2020$ | $0-133-5-00-216$ |
| WINTER EQUIPMENT COMPANY INC | 317403 | 90680 AP | $12 / 15 / 2020$ | $0-133-5-00-306$ |
| WINTER EQUIPMENT COMPANY INC | 317403 | 90680 AP | $12 / 15 / 2020$ | $0-133-5-00-306$ |

*** VENDOR
7158 TOTAL
98.77

1,017. 67 489.18

2,204.41
42.11
475.66

2,145.75
15.00

2,921.61
2,921. 61

| 12-34 | 342-560012011 GAS SERVI |  | 98.77 |
| :---: | :---: | :---: | :---: |
| 12-31 | 300467 Rock |  | 1,017.67 |
| 12-31 | 300467 Rock |  | 489.18 |
| 12-14 | 30047 Rock |  | 2,204.41 |
| 12-14 | 30047 Rock |  | 42.11 |
| 12-14 | 30047 Rock |  | 475.66 |
|  | *** VENDOR | 434 |  |
| 12-36 | ON-CALL ENGINEERING TO | 1 | 2,145.75 |
| 12-35 | WATER METER SERVICE AT |  | 15.00 |
| 12-4 | BLOCKBUSTER HAMMERHEAD |  | 2,921.61 |
| 12-4 | BLOCKBUSTER HAMMERHEAD |  | 2,921.61 |

1,426.93
486.95

1,815.80
250.13
244.77

2,233.19
2,413.96
293.34

2,921.80
3,242.44
748.58

1,332.89
271.61
730.85

1,812.27
1,220.69
1,865.14
1,827.36
319.56

1,333.60
761.53
140.82
140.20
258.45
113.20

3,364.55
3,102.47
750.85
343.48

5,261.62
598.91

7,672.84
*** VENDOR
434 TOTAL
193.29
193.29
125.64
595.28
395.21

| $12-9$ | 218331 | ROCK |
| :--- | :--- | :--- | 193.29

4,229.03

warrants by vendor


151,138.98
1,698.00
3,079.98
6,586.62
12,531.77
56,553.90 7.47

18,399.34
800.00
395.00

5,333.77
19,861.74
6,586.63
202.56

3,293.13
258.75
132.97
200.00

287,060.61

CONSENT AGENDA 12/23/20
CHECKS DATED 12/11-12/16

## No ACH transactions.

No CARES activity this period.

# Leavenworth County <br> Request for Board Action Case No. DEV-20-126/127 <br> Preliminary \& Final Plat Sheehan Farm <br> ***Consent Agenda*** 

Date: December 23, 2020
To: Board of County Commissioners
From: Planning \& Zoning Staff
Department Head Review: Krystal Voth, Reviewed

## Additional Reviews as needed:

## Budget Review $\square$ Administrator Review x Legal Review x

Action Requested: The applicant is requesting a Preliminary and Final Plat for an 8-lot subdivision
Analysis: The applicant is requesting approval of an 8-lot subdivision located between $178^{\text {th }} \& 182^{\text {nd }}$ Street, south of 24-40 Highway. Zoning in the area is RR2.5. Lots one through four situated along $182^{\text {nd }}$ Street are 10 acres in size. Lots 5,7 and 8 are 15 acres or larger. Lot six is approximately 2.7 acres. All lots meet the requirements for the zoning district. There is a large overhead transmission line that transects lots one through four.

The Stranger Township Fire Chief has requested that a fire hydrant be installed within 500 feet of each structure. The Suburban Water District indicates there is currently one fire hydrant located along $182^{\text {nd }}$ Street at the north end of the development. Suburban also indicates additional hydrants can be installed along $178^{\text {th }}$ Street but not along $182^{\text {nd }}$ Street.

Staff is supportive of the request as proposed and recommends approval of the development.
Recommendation: The Planning Commission voted 9-0 to recommend approval of Case No.DEV-20-126 \& 127, Preliminary and Final Plat for Sheehan Farm subject to conditions.

## Alternatives:

1. Approve Case No. DEV-20-126 \& 127, Preliminary and Final Plat for Sheehan Farm, with Findings of Fact, and with or without conditions; or
2. Deny Case No. DEV-20-126 \& 127, Preliminary and Final Plat for Sheehan Farm, with Findings of Fact; or
3. Revise or Modify the Planning Commission Recommendation to Case No. DEV-20-126 \& 127, Preliminary and Final Plat for Sheehan Farm, with Findings of Fact; or
4. Remand the case back to the Planning Commission.

## Budgetary Impact:

| X | Not Applicable |
| :--- | :--- |
| $\square$ | Budgeted item with available funds |
| $\square$ | Non-Budgeted item with available funds through prioritization |

Non-Budgeted item with additional funds requested

## Total Amount Requested:

\$0.00
Additional Attachments: Staff Report, Plat


# ***Consent Agenda*** <br> Case No. DEV-20-126/127 <br> Sheehan Farm <br> Preliminary and Final Plat 

Staff Report - Board of County Commissioners

## GENERAL INFORMATION:

| Applicant/ <br> Property Owner: | James Sheehan <br> 7811 Ash <br> Prairie Village, KS 66208 |
| :--- | :--- |
| Agent: | Herring Surveying |
| Legal Description: | A tract of land in the Northwest Quarter of Section 8, Township 11 South, <br> Range 22 East of the $6^{\text {th }}$ P.M, in Leavenworth County, Kansas. |
| Parcel Size: | $\pm 91.07$ acres |
| Zoning/Land Use: | RR-2.5, Rural Residential 2.5-acre minimum size parcels |
| Comprehensive Plan:This parcel is within the Low Density Residential and the Mixed-Use land use <br> categories. |  |
| Parcel ID No.: | $183-08-0-00-00-021$ |
| Planner: | Krystal Voth |

## REPORT:

## Planning Commission Recommendation

The Planning Commissioner voted 8-0 to recommend approval of Case No.DEV-20-126 \& 127, Preliminary and Final Plat for Sheehan Farm, with the following conditions:

1. Building permits shall be required for any new construction.
2. Erosion control shall be used when designing and constructing driveways. A form of sediment control shall be installed before work begins and maintained throughout the time that the land disturbing activities are taking place. Re-vegetation of all disturbed sites shall be completed within 45 days after completion of final grading weather permitting.
3. The applicant shall adhere to the following memorandums:
a. Public Works - Olsson Engineering, November 3, 2020
b. Wayne Malnicof - County Surveyor, October 27, 2020
c. Mark Billquist -Township Fire Department, November3, 2020
d. Travis Miles - Suburban Water November 6, 2020
4. A waiver for the use of private septic systems within this subdivision is granted with this approval.
5. Fire hydrants shall be installed at the time of development if adequate infrastructure is available.
6. After approval of this subdivision by the Board of County Commission, all conditions listed shall be adhered to and copies shall be provided to the Planning and Zoning Department within 30 days.

## Request

The applicant is requesting a Preliminary and Final Plat for an 8 -lot subdivision.

## Adjacent Land Use

The surrounding properties are residences and farms on varying sized parcels ranging from 1 acre to over 140 acres in size.

## Flood Plain

There are no Special Flood Hazard Areas on this parcel per FEMA Firm Maps 20103C0325G \& 20103C0350G July 16, 2015.

## Utilities/Services

Sewer: Private septic system
Fire: Stranger
Water: Suburban Water
Electric: Evergy

## Access/Streets

The property is accessed by $178^{\text {th }}$ Street $\& 182^{\text {nd }}$ Street. $178^{\text {th }}$ Street is a County road with a gravel surface $\pm$ $22^{\prime}$ wide. $182^{\text {nd }}$ Street is a County Collector with a paved surface $\pm 22$ ' wide.

## Agency Comments

See attached comments - Memo - Public Works - Olsson Engineering, November 3, 2020
See attached comments - Memo - Wayne Malnicof - County Surveyor, October 27, 2020
See attached comments - Memo - Mark Billquist -Township Fire Department, November3, 2020
See attached comments - Memo - Travis Miles - Suburban Water November 6, 2020

## Findings

1. The proposed subdivision is consistent with the zoning district of RR 2.5; Rural Residential Zoning 2.5 acre minimum size parcels.
2. The property is not within a sewer district boundary or is within 660 feet of the incorporated limits of a municipality; therefore, a waiver to the requirement of allowing private septic systems is supported by staff. A private sewage disposal permit may be issued per Leavenworth County Sanitary Code requirements.
3. The water district currently has adequate infrastructure to supply water to the lots within this subdivision.
4. The proposed subdivision is in accordance with the Comprehensive Plan

## Subdivision Classification

This is classified as a Class "C" Subdivision. According to the Leavenworth County Zoning \& Subdivision regulations, a Class "C" Subdivision is any subdivision in which all the lots lie within the Rural Growth Area of Leavenworth County.

Staff is supportive of a waiver of the requirement to connect to a sanitary sewer system as sanitary sewers are not located within 660' of the subdivision. (See condition 4)

## Staff Comments

The applicant is requesting approval of an 8-lot subdivision located between $178^{\text {th }} \& 182^{\text {nd }}$ Street, south of 24-40 Highway. Zoning in the area is RR2.5. Lots one through four situated along $182^{\text {nd }}$ Street are 10 acres in size. Lots 5,7 and 8 are 15 acres or larger. Lot six is approximately 2.7 acres. All lots meet the requirements for the zoning district. There is a large overhead transmission line that transects lots one through four.

The Stranger Township Fire Chief has requested that a fire hydrant be installed within 500 feet of each structure. The Suburban Water District indicates there is currently one fire hydrant located along $182^{\text {nd }}$ Street at the north end of the development. Suburban also indicates additional hydrants can be installed along 178 ${ }^{\text {th }}$ Street but not along $182^{\text {nd }}$ Street.

Staff is supportive of the request as proposed and recommends approval of the development.

## ACTION OPTIONS:

1. Approve Case No. DEV-20-126 \& 127, Preliminary and Final Plat for Sheehan Farm, with Findings of Fact, and with or without conditions; or
2. Deny Case No. DEV-20-126 \& 127, Preliminary and Final Plat for Sheehan Farm, with Findings of Fact; or
3. Revise or Modify the Planning Commission Recommendation to Case No. DEV-20-126 \& 127, Preliminary and Final Plat for Sheehan Farm, with Findings of Fact; or
4. Remand the case back to the Planning Commission.

## ATTACHMENTS:

Aerial Map
Memorandums
Preliminary and Final Plat

## Voth, Krystal

From:
Sent:
To:
Subject:
Travis Miles [Travis@suburbanwaterinc.com](mailto:Travis@suburbanwaterinc.com)
Friday, November 6, 2020 8:42 AM
Voth, Krystal
RE: DEV-20-126/127 Preliminary and Final Plat - Sheehan Acres

Notice: This email originated from outside this organization. Do not click on links or open attachments unless you trust the sender and know the content is safe.

Krystal,
I apologize for the delay in response to your questions.
a. Does the water district have existing service lines in the vicinity of the proposed plat boundary to provide potable water to the lots of the subdivision?

Yes Suburban Water has existing services lines along both 178th Street and 182nd Street, that cover all lots shown.
b. What is the size and location of the water line(s) and fire hydrants that are adjacent to this property?

Suburban has a 4" PVC water main along with west side of $182^{\text {nd }}$ Street and a $6^{\prime \prime}$ PVC water main along the west side of $178^{\text {th }}$ Street. Suburban has 1 fire hydrant adjacent to Sheehan Acres, located on $182^{\text {nd }}$ Street at the north end of the development.
c. Would the water district allow fire hydrants to be installed on the existing service line(s) in the area of the proposed plat boundary?

Suburban would allow fire hydrants to be installed along 178 ${ }^{\text {tr }}$ Street, but not $182^{\text {nd }}$ Street.
d. Does the water district have plans to upgrade the service in this vicinity to such a level that fire hydrants can be installed in the foreseeable future, or within a set number of years? If so, what would the improvements consist of?

At this time Suburban Water does not have any plans to upgrade service in the area, however we do have sufficient capacity to supply domestic water service to the property for Sheehan Acres.

Travis Miles
Suburban Water
-----Original Appointment-----
From: Voth, Krystal [mailto:KVoth@leavenworthcounty.gov]
Sent: Thursday, October 29, 2020 9:50 AM
To: Voth, Krystal; Travis Miles
Subject: RE: DEV-20-126/127 Preliminary and Final Plat - Sheehan Acres
When: Friday, November 6, 2020 8:30 AM-9:00 AM (UTC-06:00) Central Time (US \& Canada).
Where:

Travis,

Please see the attached plat for Sheehan Acres located within Suburban's territory. I would greatly appreciate it if you were able to answer the following questions:
a. Does the water district have existing service lines in the vicinity of the proposed plat boundary to provide potable water to the lots of the subdivision?
b. What is the size and location of the water line(s) and fire hydrants that are adjacent to this property?
c. Would the water district allow fire hydrants to be installed on the existing service line(s) in the area of the proposed plat boundary?
d. Does the water district have plans to upgrade the service in this vicinity to such a level that fire hydrants can be installed in the foreseeable future, or within a set number of years? If so, what would the improvements consist of?

Thanks so much and have a great day.

Krystal

## SHEEHAN FARM



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## SHEEHAN FARM










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$\mathrm{m}_{\text {SUBMIT REFERENCE REPORTS }}$
$\} \begin{aligned} & \text { submit closure calcs fo } \\ & \text { BOUNDARY AND LOTS }\end{aligned}$
Exterior corners set in concrete

## Voth, Krystal

| From: | Mark Billquist [stfdchief1760@gmail.com](mailto:stfdchief1760@gmail.com) |
| :--- | :--- |
| Sent: | Tuesday, November 3, 2020 7:42 PM |
| To: | Voth, Krystal |
| Subject: | DEV-20-126/127 Preliminary |

Notice: This email originated from outside this organization. Do not click on links or open attachments unless you trust the sender and know the content is safe.

With the development of this property, the Stranger Township Fire Department would request that enough fire hydrants be installed so that each structure is within 500 feet of a hydrant. This would help lower our Insurance Services Office rating which would result in lower home insurance premiums for all residents of the township.
--
Mark Billquist
Stranger Township Fire Chief
Midwest Regional Treasurer 10-33 Foundation
913-369-0510 mobile
stfdchief1760@gmail.com
"Sometimes your joy is the source of your smile, but sometimes your smile can be the source of yourjoy." - Thich Nhat Hanh

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2020
BUDGET REVIEW OF ESTIMATED BALANCES

|  | A | B | C | D | E | F | G | H | I | J | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Fund \# | Fund Name | 2020 Adopted Budget | $\begin{aligned} & \hline \text { YTD Expenses } \\ & \text { Thru November } \\ & 2020 \\ & \hline \end{aligned}$ | Projected December Expenses | Projected December Payrolls | ESTIMATED TRANSFER IN | ESTIMATED TRANSFER OUT | ESTIMATED 2020 EXPENSES | UNDER or OVER BUDGET | Amend in 2020 |
| 2 |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 001 | General | 27,724,615 | 23,052,330 | 1,294,570 | 1,762,320 | - | 56,800 | 26,166,020 | 1,558,595 |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 108 | Health Department | 1,350,880 | 1,166,510 | 15,010 | 108,754 | - | 0 | 1,290,274 | 60,606 |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 112 | Employee Benefits | 8,125,000 | 6,615,048 | 25,000 | 1,000,000 | - | 0 | 7,640,048 | 484,952 |  |
| 8 |  |  |  |  |  |  |  |  | - | - |  |
| 10 | 117 | Clerk Technology | 54,000 | 52,100 | - | - | - | 0 | 52,100 | 1,900 |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 118 | Treasurer Technology | 46,296 | 40,218 | 5,000 | - | - | 0 | 45,218 | 1,078 |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 119 | ROD Technology | 115,263 | 91,752 | 5,000 | 2,268 | - | 70,261 | 169,281 | $(54,018)$ | amend |
| 15 |  |  |  |  |  |  |  |  |  |  |  |
| 16 | 133 | Road and Bridge | 9,589,844 | 8,455,871 | 450,000 | 262,400 | - | 1,200,000 | 10,368,271 | $(778,427)$ | 900,000 |
| 17 |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 134 | Special Alcohol | 50,000 | 39,000 | - | - | - | 0 | 39,000 | 11,000 |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 140 | Economic Development | 291,643 | 240,518 | 51,125 | - | - | 0 | 291,643 | - |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 145 | Council on Aging | 2,597,314 | 2,165,775 | 55,000 | 108,000 | - | 0 | 2,328,775 | 268,539 |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 158 | Spec. Parks \& Recreation | 15,000 | 17,000 | - | - | - | 0 | 17,000 | $(2,000)$ | 2,500 |
| 26 |  |  |  |  |  |  |  |  |  |  |  |
| 27 | 160 | Solid Waste | 1,502,103 | 1,292,582 | 200,000 | 38,400 | - | 11,585 | 1,542,567 | $(40,464)$ | 60,000 |
| 28 |  |  |  |  |  |  |  |  | - | - |  |
| 29 | 170 | Sales Tax, 200610 Yr. | 1,465,769 | 715,266 | - | - | - | 0 | 715,266 | 750,503 |  |
| 30 |  |  |  |  |  |  |  |  | - | - |  |
| 31 | 171 | Sales Tax 20 yr | 5,525,767 | 9,591,478 | 40,000 | - | - | 0 | 9,631,478 | $(4,105,711)$ | 4,500,000 |
| 32 |  |  |  |  |  |  |  |  |  |  |  |
| 33 | 174 | 911 Tax | 548,400 | 444,877 | 82,666 | - | - | 0 | 527,543 | 20,857 |  |
| 34 |  |  |  |  |  |  |  |  |  |  |  |
| 35 | 195 | Juvenile Programs | 746,764 | 631,057 | 3,763 | 58,830 | - | 0 | 693,650 | 53,114 |  |
| 36 |  |  |  |  |  |  |  |  |  |  |  |
| 38 | 304 | Bond \& Interest | 1,761,291 | 1,761,290 | - | - | - | 0 | 1,761,290 | 1 |  |
| 39 |  |  |  |  |  |  |  |  |  |  |  |
| 40 |  | TOTAL COUNTY BUDGET | 61,509,949 |  |  |  |  | 1,338,646 | 1,338,646 | 60,171,303 |  |

2020
BUDGET REVIEW OF ESTIMATED BALANCES

|  | A | B | C | D | E | F | G | H | I | J | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Fund \# | Fund Name | 2020 Adopted Budget | YTD Expenses Thru November 2020 | Projected <br> December <br> Expenses | Projected December Payrolls | ESTIMATED <br> TRANSFER IN | ESTIMATED TRANSFER OUT | ESTIMATED 2020 EXPENSES | UNDER or OVER BUDGET | Amend in 2020 |
| 41 |  |  |  |  |  |  |  |  |  |  |  |
| 42 |  |  |  |  |  |  |  |  |  |  |  |
| 43 | 146 | Motor Vehicle Fund | 743,799 | 573,302 | 32,230 | 61,818 | - | 0 | 667,350 | 76,449 |  |
| 44 |  |  |  |  |  |  |  |  |  |  |  |
| 45 | 172 | Cares | - | 9,347,102 | 9,857,850 | - | - | 0 | 19,204,952 | $(19,204,952)$ | 19,204,952 |
| 46 |  |  | X |  |  |  |  |  |  |  |  |
| 47 |  |  |  |  |  |  |  |  |  |  |  |
| 48 |  |  |  |  |  |  |  |  |  |  |  |
| 49 |  |  |  |  |  |  |  |  | - | - |  |
| 50 |  | OTHER FUNDS |  |  |  |  |  |  |  |  |  |
| 51 |  |  |  |  |  |  |  |  |  |  |  |
| 52 | 137 | Local Service, Road \& Bridge | 3,307,683 | 3,036,415 | 220,000 | 76,800 | - |  | 3,333,215 | $(25,532)$ | 50,000 |
| 54 | 210 | Sewer District \#1 | 66,331 | 20,480 | 19,956 | - | - | 0 | 40,436 | 25,895 |  |
| 55 | 212 | Sewer District \#2 | 79,084 | 15,102 | 20,784 | - | - | 0 | 35,886 | 43,198 |  |
| 56 | 214 | Sewer District \#3 | 103,712 | 103,212 | - | - | - | 0 | 103,212 | 500 |  |
| 57 | 218 | Sewer District \#5 | 19,474 | 6,074 | 10,424 | - | - | 0 | 16,498 | 2,976 |  |
| 58 | 216 | Sewer District \#6 | 6,678 | - | - | - | - | 0 | - | 6,678 |  |
| 59 | 219 | Sewer District \#7 | 63,920 | 63,918 | - | - | - | 0 | 63,918 | 2 |  |
| 60 |  |  |  |  |  |  |  |  |  |  |  |
| 61 |  |  |  |  |  |  |  |  |  |  |  |
| 62 |  |  |  |  |  |  |  |  |  |  |  |
| 63 |  | TOTAL OTHER FUNDS | 3,646,882 |  |  |  |  |  |  |  |  |
| 64 |  |  | x |  |  |  |  |  |  |  |  |
| 65 |  |  |  |  |  |  |  |  |  |  |  |
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| 75 |  |  |  |  |  |  |  |  |  |  |  |
| 76 |  |  |  |  |  |  |  |  |  |  |  |

BUDGET REVIEW OF ESTIMATED BALANCES

|  | A | B | C | D | E | F | G | H | I | J | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Fund \# | Fund Name | 2020 Adopted Budget | YTD Expenses Thru November 2020 | Projected <br> December <br> Expenses | Projected December Payrolls | ESTIMATED TRANSFER IN | ESTIMATED <br> TRANSFER OUT | ESTIMATED 2020 EXPENSES | UNDER or OVER BUDGET | Amend in 2020 |
| 77 |  |  |  |  |  |  |  |  |  |  |  |
| 78 | 001-00 | General Funds |  |  |  |  |  |  |  |  |  |
| 79 | 001-01 | County Commission | 622,948 | 470,012 | 10,000 | 52,130 | - | 0 | 532,142 | 90,806 |  |
| 80 | 001-02 | County Clerk | 290,012 | 249,100 | 1,700 | 30,159 | - | 0 | 280,959 | 9,053 |  |
| 81 | 001-03 | County Treasurer | 474,846 | 503,771 | 1,100 | 59,707 | - | 0 | 564,578 | $(89,732)$ |  |
| 82 | 001-04 | ROD | 217,982 | 188,699 | 300 | 27,488 |  |  | 216,487 | 1,495 |  |
| 83 | 001-05 | Ambulance | 5,010,925 | 4,635,994 | 70,000 | 361,430 |  |  | 5,067,424 | $(56,499)$ |  |
| 84 | 001-06 | Planning | 594,438 | 389,245 | 6,000 | 34,147 | - | 0 | 429,392 | 165,046 |  |
| 85 | 001-07 | Sheriff | 10,884,594 | 9,533,863 | 125,000 | 825,000 | - |  | 10,483,863 | 400,731 |  |
| 86 | 001-09 | County Counselor | 502,641 | 341,809 | 300 | 14,400 | - | 0 | 356,509 | 146,132 |  |
| 87 | 001-11 | County Attorney | 1,336,378 | 1,112,986 | 14,000 | 129,500 | - | 0 | 1,256,486 | 79,892 |  |
| 88 | 001-13 | Coroner | 185,000 | 184,810 | 25,000 | - | - | 0 | 209,810 | $(24,810)$ |  |
| 89 | 001-14 | Courthouse General | 2,097,214 | 1,045,024 | 820,000 | - | - | 0 | 1,865,024 | 232,190 |  |
| 90 | 001-18 | Information Services | 593,735 | 534,132 | 10,500 | 39,466 | - | 0 | 584,098 | 9,637 |  |
| 91 | 001-19 | District Court | 248,241 | 127,315 | 10,000 | - | - | 0 | 137,315 | 110,926 |  |
| 92 | 001-28 | Human Resources | 335,023 | 254,786 | 13,000 | 19,000 | - | 0 | 286,786 | 48,237 |  |
| 93 | 001-31 | Spec. Building Maint | 525,349 | 413,324 | 10,000 | 30,048 | - | 16,800 | 470,172 | 55,177 |  |
| 94 | 001-32 | Spec. Building Justice Center | 987,164 | 768,711 | 42,000 | 12,565 | - | 15,000 | 838,276 | 148,888 |  |
| 95 | 001-41 | Appraiser | 744,372 | 608,731 | 27,070 | 74,880 | - | 0 | 710,681 | 33,691 |  |
| 96 | 001-49 | Election | 512,461 | 321,286 | 500 | 26,700 | - | 25,000 | 373,486 | 138,975 |  |
| 97 | 001-53 | Noxious Weed | 501,520 | 411,326 | 65,000 | 22,400 | - | 0 | 498,726 | 2,794 |  |
| 98 | 001-82 | Risk Management | 10,485 | 621 | 600 | 3,300 | - | 0 | 4,521 | 5,964 |  |
| 99 | 001-25- | Fair Building | 68,000 | 68,000 | - | - |  |  | 68,000 | - |  |
| 100 | 001-25-05 | Fair Premium | 11,000 | 11,000 | - |  |  |  | 11,000 | - |  |
| 101 | 001-25-10 | Riverside Resources | 126,560 | 126,560 | - |  |  |  | 126,560 | - |  |
| 102 | 001-25-20 | Extension | 244,065 | 244,065 | - |  |  |  | 244,065 | - |  |
| 103 | 001-25-30 | Soil Conservation | 45,000 | 22,500 | 22,500 |  |  |  | 45,000 | - |  |
| 104 | 001-29-201 | CMHC - Guidance Center | 291,237 | 291,237 | - |  |  |  | 291,237 | - |  |
| 105 | 001-29-03 | CASA | 67,600 | 67,600 | - |  |  |  | 67,600 | - |  |
| 106 | 001-29-04 | Alliance Against Family Vio. | 55,825 | 55,825 | - |  |  |  | 55,825 | - |  |
| 107 | 001-29-05 | St. Vincent | 40,000 | 20,000 | 20,000 |  |  |  | 40,000 | - |  |
| 108 | 001-25-250 | Linwood Community Bldg. | - |  |  |  |  |  | - | - |  |
| 109 | 001-25-40 | County Museums | 50,000 | 49,998 |  |  |  |  | 49,998 | 2 |  |
| 110 | 001-25-45 | BOCC Contributions | 50,000 | - |  |  |  |  | - | 50,000 |  |
| 111 |  | TOTAL | 27,724,615 | 23,052,330 | 1,294,570 | 1,762,320 | - | 56,800 | 26,166,020 | 1,558,595 |  |


|  | A | B | C | D | E | F | G | H | 1 | J | K | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Fund \# | Fund Name | CASH BALANCE as of $11 / 30 / 20$ | Projected Dec. Expenses | Projected Dec. Payroll | ESTIMATED DECEMBER RECEIPTS | ESTIMATED MTR. \& REC. VEH. DIST. | ESTIMATED TRANSFER IN | ESTIMATED TRANSFER OUT | ESTIMATED CASH <br> BALANCE 12/31/2020 | BEGINNING CASH PER BUDGET 2021 | FINAL BALANCE FOR 2020 |
| 32 |  |  |  |  |  |  |  |  |  |  |  |  |
| 33 | 001 | General | 5,618,951 | 1,294,570 | 1,094,930 | 482,508 | 336,947 | 0 | 56,800 | 3,992,106 | 2,418,065 | 1,574,041 |
| 34 |  |  |  |  |  |  |  |  |  |  |  |  |
| 35 | 108 | Health Department | 292,838 | 15,010 | 67,454 | 25,000 | 14,238 |  |  | 249,612 | 79,749 | 169,863 |
| 36 |  |  |  |  |  |  |  |  |  |  |  |  |
| 37 | 112 | Employee Benefits | 1,709,526 | 25,000 | 590,000 | 0 | 93,722 | 0 | 0 | 1,188,248 | 766,345 | 421,903 |
| 38 |  |  |  |  |  |  |  |  |  |  |  |  |
| 39 | 117 | Clerk Technology | 20,265 | 0 | 0 | 3,000 | 0 |  |  | 23,265 | 18,210 | 5,055 |
| 40 |  |  |  |  |  |  |  |  |  |  |  |  |
| 41 | 118 | Treasurer Technology | 5,574 | 5,000 | 0 | 3,000 | 0 |  |  | 3,574 | 341 | 3,233 |
| 42 |  |  |  |  |  |  |  |  |  |  |  |  |
| 43 | 119 | ROD Technology | 159,518 | 5,000 | 1,768 | 13,000 | 0 |  | 70,260 | 95,490 | 95,489 | 1 |
| 44 |  |  |  |  |  |  |  |  |  |  |  |  |
| 45 | 133 | Road and Bridge | 2,341,653 | 450,000 | 164,000 | 0 | 173,992 | 280,000 | 1,200,000 | 981,645 | 699,423 | 282,222 |
| 46 |  |  |  |  |  |  |  |  |  |  |  |  |
| 47 | 134 | Special Alcohol | 91,298 | 0 | 0 | 0 | 0 | 0 | 0 | 91,298 | 84,626 | 6,672 |
| 48 |  |  |  |  |  |  |  |  |  |  |  |  |
| 49 | 137 | Local Service Road \& Bridge | 412,707 | 220,000 | 48,000 | 0 | 63,730 | 120,000 |  | 328,437 | 317,402 | 11,035 |
| 50 |  |  |  |  |  |  |  |  |  |  |  |  |
| 51 | 140 | Economic Development | 49,634 | 51,125 | 0 |  | 6,753 |  |  | 5,262 | 4,502 | 760 |
| 52 |  |  |  |  |  |  |  |  |  |  |  |  |
| 53 | 145 | Council on Aging | 512,033 | 55,000 | 66,000 | 17,000 | 40,647 | 0 | 0 | 448,680 | 388,324 | 60,356 |
| 54 |  |  |  |  |  |  |  |  |  |  |  |  |
| 57 | 158 | Special Parks \& Rec. | 8,278 | 0 | 0 | 0 | 0 | 0 | 0 | 8,278 | 15,304 | $(7,026)$ |
| 58 |  |  |  |  |  |  |  |  |  |  |  |  |
| 59 | 160 | Solid Waste | 870,950 | 200,000 | 24,000 | 100,000 | 1,226 | 0 | 11,585 | 736,591 | 580,277 | 156,314 |
| 60 |  |  |  |  |  |  |  |  |  |  |  |  |
| 61 | 170 | 200610 Yr. Sales Tax | 162,142 | 0 | 0 | 0 | 0 |  |  | 162,142 | - | 162,142 |
| 62 |  |  |  |  |  |  |  |  |  |  |  |  |
| 63 | 171 | 201620 Yr. Sales Tax | 9,074,845 | 40,000 | 0 | 360,000 | 0 | 0 | 0 | 9,394,845 | 11,485,270 | $(2,090,425)$ |
| 64 |  |  |  |  |  |  |  |  |  |  |  |  |
| 65 | 174 | 911 Tax | 596,016 | 82,666 | 0 | 40,180 | 0 | 0 | 0 | 553,530 | 474,922 | 78,608 |
| 66 |  |  |  |  |  |  |  |  |  |  |  |  |
| 67 | 195 | Juvenile Programs | 184,543 | 3,763 | 36,932 | 850 | 11,676 |  |  | 156,374 | 22,453 | 133,921 |
| 68 |  |  |  |  |  |  |  |  |  |  |  |  |
| 69 | 304 | Bond \& Interest | 47,179 | 0 | 0 | 0 | 0 |  |  | 47,179 | 47,172 | 7 |


|  | A | B | C | D | E | F | G | H | 1 | J | K | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Fund \# | Fund Name | CASH BALANCE as of $11 / 30 / 20$ | Projected Dec. Expenses | Projected Dec. Payroll | ESTIMATED DECEMBER RECEIPTS | ESTIMATED MTR. \& REC. VEH. DIST. | ESTIMATED TRANSFER IN | ESTIMATED TRANSFER OUT | ESTIMATED CASH <br> BALANCE 12/31/2020 | BEGINNING CASH <br> PER BUDGET 2021 | FINAL BALANCE FOR 2020 |
| 70 |  |  |  |  |  |  |  |  |  |  |  |  |
| 71 | 210 | Sewer District \#1 | 143,987 | 4,500 | 0 | 0 | 0 | 0 | 15,456 | 124,031 | 99,071 | 24,960 |
| 72 | 212 | Sewer District \#2 | 274,329 | 8,000 | 0 | 0 | 0 | 0 | 12,784 | 253,545 | 210,089 | 43,456 |
| 73 | 214 | Sewer District \#3 | 42,238 | 0 | 0 | 0 | 0 | 0 | 0 | 42,238 | 42,738 | (500) |
| 74 | 218 | Sewer District \#5 | 114,128 | 1,800 | 0 | 0 | 0 | 0 | 8,624 | 103,704 | 100,728 | 2,976 |
| 75 | 216 | Sewer District \#6 | 6,678 | 0 | 0 | 0 | 0 | 0 | 0 | 6,678 | 6,678 | - |
| 76 | 219 | Sewer District \#7 | 29,012 | 0 | 0 | 0 | 0 | 0 | 0 | 29,012 | 29,294 | (282) |
| 77 |  |  |  |  |  |  |  |  |  |  |  |  |
| 78 | 172 | CARES | 9,857,691 | 9,857,691 | 0 | 0 | 0 | 0 | 0 | 0 | - | - |
| 79 |  |  |  |  |  |  |  |  |  |  |  |  |
| 80 | 146 | Motor Vehicle Fund | 77,904 | 32,230 | 38,636 | 37,000 | 0 | 0 | 0 | 44,038 | 79,981 | $(35,943)$ |
| 81 |  |  |  |  |  |  |  |  |  |  |  |  |
| 82 |  |  | 32,703,917 | 12,351,355 | 2,131,720 | 1,081,538 | 742,931 | 400,000 | 1,375,509 | 18,669,802 | 18,066,453 |  |
| 83 |  |  |  |  |  |  | ok |  |  |  |  |  |
| 84 |  | General Fund Payroll |  <br> 12/23 Payrolls |  |  |  |  |  |  |  |  |  |
| 85 | 001-01 | County Commission | 33,632 |  |  |  |  |  |  |  |  |  |
| 86 | 001-02 | County Clerk | 19,460 |  |  |  |  |  |  |  |  |  |
| 87 | 001-03 | County Treasurer | 37,318 |  |  |  |  |  |  |  |  |  |
| 88 | 001-04 | ROD | 17,180 |  |  |  |  |  |  |  |  |  |
| 89 | 001-05 | Ambulance | 230,000 |  |  |  |  |  |  |  |  |  |
| 90 | 001-06 | Planning | 21,342 |  |  |  |  |  |  |  |  |  |
| 91 | 001-07 | Sheriff | 500,000 |  |  |  |  |  |  |  |  |  |
| 92 | 001-09 | County Counselor | 9,000 |  |  |  |  |  |  |  |  |  |
| 93 | 001-11 | County Attorney | 81,500 |  |  |  |  |  |  |  |  |  |
| 94 | 001-18 | Information Services | 24,668 |  |  |  |  |  |  |  |  |  |
| 95 | 001-28 | Human Resources | 12,000 |  |  |  |  |  |  |  |  |  |
| 96 | 001-31 | Spec. Building Maint | 19,664 |  |  |  |  |  |  |  |  |  |
| 97 | 001-32 | Spec. Building Justice Center | 7,866 |  |  |  |  |  |  |  |  |  |
| 98 | 001-41 | Appraiser | 46,800 |  |  |  |  |  |  |  |  |  |
| 99 | 001-49 | Election | 17,200 |  |  |  |  |  |  |  |  |  |
| 100 | 001-53 | Noxious Weed | 14,000 |  |  |  |  |  |  |  |  |  |
| 101 | 001-82 | Risk Management | 3,300 |  |  |  |  |  |  |  |  |  |
| 102 |  |  | 1,094,930 |  |  |  |  |  |  |  |  |  |
| 103 |  |  |  |  |  |  |  |  |  |  |  |  |

BOARD ORDER 2020-9

## AN ORDER OF THE BOARD OF COUNTY COMMISSIONERS OF THE COUNTY OF LEAVENWORTH, KANSAS, TRANSFERRING FUNDS FROM THE ROAD \& BRIDGE FUND OF THE COUNTY TO THE CAPITAL ROAD FUND.

Now, on this $23^{\text {rd }}$ day of December 2020 the Board of County Commissioners of Leavenworth County, Kansas adopts the following Board Order:

That the Clerk of Leavenworth County, Kansas is hereby directed to cause the transfer of the sum of One Million Two Hundred Thousand and no/100 (\$1,200,000.00) from the Road \& Bridge Fund to the Capital Roads.
Transfer Out: Road \& Bridge
(D) 0-133-5-00-5
(C) 0-133-1-00-001
Transfer To: Capital Road Fund
(C) 0-220-4-00-901
(D) 0-220-1-00-001

Dated this 23rd day of December 2020.

Board of County Commissioners
Of Leavenworth County, Kansas

Doug Smith, Chairman

Vicky Kaaz, Member

Mike Stieben, Member
ATTEST:

Janet Klasinski, Leavenworth County Clerk

Jeff Culbertson, Member

Chad Schimke, Member

## AN ORDER OF THE BOARD OF COUNTY COMMISSIONERS OF THE COUNTY OF LEAVENWORTH, KANSAS, TRANSFERRING FUNDS FROM THE SOLID WASTE OPERATING FUND OF THE COUNTY TO THE CAPITAL IMPROVEMENT FUND.

Now, on this $23^{\text {rd }}$ day of December 2020 the Board of County Commissioners of Leavenworth County, Kansas adopts the following Board Order:

That the Clerk of Leavenworth County, Kansas is hereby directed to cause the transfer of the sum of Eleven Thousand Five Hundred and Eighty-Five Dollars $\mathbf{( \$ 1 1 , 5 8 5 . 0 0 )}$ from the Solid Waste Operating Fund to the Capital Improvement Fund to be designated for new scale and building.

Transfer Out: Solid Waste
(D) 0-160-5-00-502
(C) 0-160-1-00-001

Transfer To: Capital Improvement, Solid Waste:
(C) 0-215-4-00-903
(D) 0-215-1-00-001

Dated this 23rd day of December 2020.
Board of County Commissioners
Of Leavenworth County, Kansas

Doug Smith, Chairman

Vicky Kaaz, Member

Mike Stieben, Member
ATTEST:

## BOARD ORDER 2020-11

# AN ORDER OF THE BOARD OF COUNTY COMMISSIONERS OF THE COUNTY OF LEAVENWORTH, KANSAS, TRANSFERRING FUNDS FROM THE SPECIAL BUILDING, BUILDINGS AND GRUONDS FUND OF THE COUNTY TO CAPITAL IMPROVEMENT FUND. 

Now, on this $23^{\text {rd }}$ day of December 2020 the Board of County Commissioners of Leavenworth County, Kansas adopts the following Board Order:

That the Clerk of Leavenworth County, Kansas is hereby directed to cause the transfer of the sum of Sixteen Thousand Eight Hundred and no/100 (\$16,800.00) from the Special Building, Buildings \& Grounds Fund to the Capital Improvement Fund designated for the Improvements at the Leavenworth County Courthouse.
Transfer Out: Special Building, B\&G
(D) 0-001-5-31-5
(C) 0-001-1-00-001

Transfer To: Capital Improvement Fund
(C) 0-215-4-00-912
(D) 0-215-1-00-001

Dated this 23rd day of December 2020.

Board of County Commissioners
Of Leavenworth County, Kansas

Doug Smith, Chairman

Vicki Kaaz, Member

Mike Stieben, Member

ATTEST:

## AN ORDER OF THE BOARD OF COUNTY COMMISSIONERS OF THE COUNTY OF LEAVENWORTH, KANSAS, TRANSFERRING FUNDS FROM THE ELECTION FUND TO THE EQUIPMENT RESERVE FUND.

Now, on this $23^{\text {rd }}$ day of December 2020 the Board of County Commissioners of Leavenworth County, Kansas adopts the following Board Order:

That the Clerk of Leavenworth County, Kansas is hereby directed to cause the transfer of the sum of Twenty-Five Thousand Dollars and no/100 (\$25,000.00) from the Election Fund to the Equipment Reserve Election Fund.
Transfer Out: Election
(D) 0-001-5-49-501
(C) 0-001-1-00-001

Transfer To: Equipment Reserve/Election
(C) 0-115-4-00-924
(D) 0-115-1-00-001

Dated this 23rd day of December 2020.
Board of County Commissioners
Of Leavenworth County, Kansas

Doug Smith, Chairman

Vicky Kaaz, Member

Mike Stieben, Member
ATTEST:

Janet Klasinski, Leavenworth County Clerk

Jeff Culbertson, Member

Chad Schimke, Member

## BOARD ORDER 2020-13

## AN ORDER OF THE BOARD OF COUNTY COMMISSIONERS OF THE COUNTY OF LEAVENWORTH, KANSAS, TRANSFERRING FUNDS FROM THE REGISTER OF DEEDS TECHNOLOGY FUND OF THE COUNTY TO THE BOARD OF COUNTY COMMISSIONERS/ROD TECH FUND IN THE EQUIPMENT RESERVE FUND.

Now, on this 23 rd day of December, 2020 the Board of County Commissioners of Leavenworth County, Kansas adopts the following Board Order:

That the Clerk of Leavenworth County, Kansas is hereby directed to cause the transfer of the sum of Seventy Thousand Two Hundred and Sixty Dollars and No Cents $\mathbf{( \$ 7 0 , 2 6 0 . 0 0})$ from the ROD TECH Fund to the BOCC/ROD TECH FUND in the Equipment Reserve Fund to be used by other offices for equipment or technological services relating to the land or property records maintained by the county.
Transfer Out: ROD TECH
(D) 9-119-5-00-5
(C) 9-119-1-00-001
Transfer To:
Equipment Reserve
(C) 9-115-4-00-928
BOCC/ROD TECH
(D) 9-115-1-00-001

Dated this 23rd day of December, 2020.
Board of County Commissioners Of Leavenworth County, Kansas

Doug Smith, Chairman

Vicki Kaaz, Member

Jeff Culbertson, Member

Chad Schimke, Member

Mike Stieben, Member
ATTEST:

Janet Klasinski, Leavenworth County Clerk

## BOARD ORDER 2020-14

## AN ORDER OF THE BOARD OF COUNTY COMMISSIONERS OF THE COUNTY OF LEAVENWORTH, KANSAS, TRANSFERRING FUNDS FROM THE SPECIAL BUILDING, JUSTICE CENTER FUND OF THE COUNTY TO CAPITAL IMPROVEMENT FUND.

Now, on this $23^{\text {rd }}$ day of December 2020 the Board of County Commissioners of Leavenworth County, Kansas adopts the following Board Order:

That the Clerk of Leavenworth County, Kansas is hereby directed to cause the transfer of the sum of Fifteen Thousand and no/100 $\mathbf{( \$ 1 5 , 0 0 0 . 0 0 )}$ ) from the Special Building, Justice Center Fund to the Capital Improvement Fund designated for the Special Building Department for Painting and Carpeting at the Justice Center.

Transfer Out: Special Building, Justice Center
(D) 0-001-5-32-5
(C) 0-001-1-00-001

Transfer To: Capital Improvement Fund
(C) 0-215-4-00-904
(D) 0-215-1-00-001

Dated this 23rd day of December 2020.

Board of County Commissioners
Of Leavenworth County, Kansas

Doug Smith, Chairman

Vicki Kaaz, Member
Jeff Culbertson, Member

Chad Schimke, Member

Mike Stieben, Member
ATTEST:

WHEREAS the County of Leavenworth, Kansas, has determined that the financial statements and financial reports for the year ended 2020 to be prepared in conformity with the requirements of K.S.A. $75-1120 \mathrm{a}(\mathrm{a})$ are not relevant to the requirements of the cash basis and budget laws of this state and are of no significant value to the Board of County of Commissioners or the members of the general public of the County of Leavenworth and

WHEREAS there are no revenue bond ordinances or resolutions or other ordinances or resolutions of the municipality which require financial statements and financial reports to be prepared in conformity with. K.S.A. 75-1120a(a) for the year ended 2020.

NOW, THEREFORE BE IT RESOLVED, by the Board of County Commissioners of Leavenworth County, Kansas, in regular meeting duly assembled this 23rd day of December, 2020 that the Board of County Commissioners waives the requirements of K.S.A. 75-1120a(a) as they apply to the County of Leavenworth for the year ended 2020.

BE IT FURTHER RESOLVED that the Board of County Commissioners shall cause the financial statements and financial reports of the County of Leavenworth to be prepared on the basis of cash receipts and disbursements as adjusted to show compliance with the cash basis and budget laws of the state of Kansas.

Doug Smith, Chairman

Jeff Culbertson, Member

Vicky A. Kaaz, Member

Chad Schimke, Member

Mike Stieben, Member

Dated: December 23, 2020

# Leavenworth County <br> Request for Board Action 

## Date: December 17, 2020.

## To: Board of County Commissioners

From: David C. Van Parys
Department Head Approval: Mark Loughry, County Administrator
Additional Reviews as needed:
Budget Review
Administrator Review $\qquad$ Legal Review

Action Requested: Appointment of qualified physicians to serve as deputy district coroners for the First Judicial District.

Recommendation: Appointment of Dr. Alan Martinez, M.D. and Dr. John Ralston, M.D., as deputy district coroners for the First Judicial District

Analysis: Dr. Altaf Hossain, M.D., coroner for the First Judicial District (Atchison and Leavenworth counties) has requested that the board favorably consider appointing Dr. Alan Martinez, M.D. and Dr. John Ralston, M.D. as deputy district coroners.

No salary is authorized and there is no budgetary impact above the statutorily required services of the district coroner and his deputies.

Alternatives: Take no action to appoint.
Budgetary Impact:
$\square \quad$ Not Applicable
Budgeted item with available funds
Non-Budgeted item with available funds through prioritization
Non-Budgeted item with additional funds requested
Total Amount Requested: The position is currently funded for FY 2020 and FY 2020 within the Coroner's budgets.

Additional Attachments: A proposed board order effecting the appointments.

[^0]
## BOARD ORDER 2020-15

## AN ORDER OF THE BOARD OF COUNTY COMMISSIONERS OF LEAVENWORTH COUNTY, KANSAS, PURSUANT TO K.S.A. 22a-226(e), APPOINTING DR. ALAN MARTINEZ, M.D., AND DR. JOHN RALSTON, M.D. AS DEPUTY DISTRICT CORONERS FOR THE FIRST JUDICIAL DISTRICT

ON THIS 23 ${ }^{\text {RD }}$ DAY OF DECEMBER, 2020, the board of county commissioners of Leavenworth County, Kansas, meeting in regular session, did consider the appointment of Dr. Alan Martinez, M.D., and Dr. John Ralston, M.D., as deputy district coroners for the First Judicial District. Whereupon the board entered the following order:

1. Dr. Alan Martinez, M.D., is hereby appointed deputy district coroner for the First Judicial District., and shall subscribe to the required oath prior to undertaking the duties of deputy district coroner.
2. Dr. John Ralston, M.D., is hereby appointed deputy district coroner for the First Judicial District., and shall subscribe to the required oath prior to undertaking the duties of deputy district coroner.

WHEREFORE IT IS SO ORDERED THIS 23 ${ }^{\text {rd }}$ DAY OF DECEMBER, 2020.

DOUG SMITH, CHAIR, $3^{\text {RD }}$ DISTR.

VICKY KAAZ, MEMBER

MIKE STIEBEN, MEMBER

JEFF CULBERTSON, MEMBER

CHAD SCHIMKE, MEMBER

ATTEST: JANET KLASINSKI COUNTY CLERK

# Leavenworth County Request for Board Action 

Date: December 23, 2020

## To: Board of County Commissioners

From: Public Works
Department Head Approval: Bill Noll

## Additional Reviews as needed:

Budget Review $\square$ Administrator Review $\square$ Legal Review

Action Requested: Approval of Agreement for Maintenance of Roads along the County lines for Leavenworth County and the Jefferson County

Recommendation: Approval
Analysis: Public Works has prepared updated agreements for all counties adjacent to Leavenworth County to update our current interlocal agreements for roadway maintenance. These updated agreements delegate responsibility for maintenance of roadway surface, right-of-way, bridges and drainage structures as well as any entrances along the roadway, landscaping and sidewalk/trails.

The proposed agreement formalizes the existing maintenance responsibilities. Jefferson County was provided the drafted agreement on November 10, 2020 for review. We received verification from Sherri Hoffman on December 11, 2020 that they were agreement with the attached proposed agreement.

Alternatives: Return for additional work, Deny, Table

## Budgetary Impact:

Not Applicable
Budgeted item with available funds
Non-Budgeted item with available funds through prioritization
Non-Budgeted item with additional funds requested

## Total Amount Requested: N/A

## Additional Attachments:

Agreement for Maintenance of Roads On or Near the County Line

# AN AGREEMENT BETWEEN THE BOARDS OF COUNTY COMMISSIONERS OF JEFFERSON AND LEAVENWORTH COUNTIES, KANSAS, PROVIDING FOR THE ALLOCATION OF RESPONSIBILITY FOR THE CONSTRUCTION, REPAIR AND MAINTENANCE OF ROADS, BRIDGES, CULVERTS AND SUPPORTING INFRASTUCTURE LOCATED ON OR NEAR THE COUNTY LINE BETWEEN SAID COUNTIES. 

WHEREAS, statue K.S.A. 68-1122 and 12-2908 authorize the boards of county commissioners of the counties and the state of Kansas to enter into an agreement to construct, repair, and maintain roads, bridges, culverts and supporting infrastructure located on or near the county lines between those counties, and;

WHEREAS, the boards of county commissioners of Jefferson and Leavenworth counties desire to enter into such an agreement.

## NOW THEREFORE, BE IT AGREED:

1) That the terms of this agreement shall apply to the construction, repair and the maintenance of roads, bridges and culverts located on or near the county line between counties of Jefferson and Leavenworth, Kansas.
2) The allocation of responsibility of maintenance for roads on or near the county line shall be as listed in Exhibit "A" attached hereto and fully incorporated herein. "Maintenance" shall mean:
a) Maintenance of the road surface, shoulders, drainage structures and back slopes as required from right-of-way to right-of-way
b) Installation and replacement of all required signage
c) Maintenance, repair and replacement of road culverts
d) Routine maintenance and inspection of existing bridge structures
e) Snow removal
3) In the event that major repair or replacement of an existing bridge located on the county line is required the counties shall confer and mutually agree to the scheduling of the major maintenance and the allocation and budgeting of necessary funding or contribution of equipment, labor or materials from each county. This will be done though a supplemental agreement to this document.
4) All entrances along roadways shall be permitted by the jurisdiction maintaining that section of roadway.
5) Acquisition of any easements or right-of-ways necessary for the maintenance of any road shall be obtained by the party having legal jurisdiction of the road and shall be obtained in a timely manner upon determination such easements or right-of-ways are required.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be signed by their duly authorized officers, on this $\qquad$ day of $\qquad$ , 2020.

## LEAVENWORTH COUNTY

Attest:
Board of County Commissioners:

Janet Klasinski, County Clerk
Doug Smith, Chairman

Jeff Culbertson, $1^{\text {st }}$ District
(SEAL)
Vicky Kaaz, ${ }^{\text {nd }}$ District

Chad Schimke, $4^{\text {th }}$ District

Mike Stieben, $5^{\text {th }}$ District

IN WITNESS WHEREOF the parties here to have caused this Agreement to be signed by their duly authorized officers, on this $\qquad$ day of $\qquad$ , 2020

## JEFFERSON COUNTY

Attest:

Linda M. Buttron, County Clerk (SEAL)

Board of County Commissioners:

Lynn Luck, Chairman

Wayne Ledbetter, ${ }^{\text {nd }}$ District

Richard Malm, $3^{\text {rd }}$ District

# Leavenworth County <br> Request for Board Action Case No. DEV-20-107 \&108 <br> Preliminary \& Final Plat Linwood South Elementary - USD 458 

Date: December 23, 2020
To: Board of County Commissioners
From: Planning \& Zoning Staff
Department Head Review: Krystal Voth, Reviewed

## Additional Reviews as needed:

## Budget Review $\square$ Administrator Review x Legal Review $x$

Action Requested: The applicant is requesting a Preliminary and Final Plat for a single-lot subdivision located near Stillwell and Linwood Road. The plat is for the Linwood South Elementary School.

Analysis: The Basehor-Linwood School District has experienced significant growth and requires the addition of a new elementary school. In order to serve the students and families in the southern part of Leavenworth County, the District has identified a property located at the northwest corner of K-32 (Linwood Road) and Stillwell Road. The site is approximately 20 acres. The property is located within the Rural Residential Zoning District. According to Article 19 - Table of Uses, schools are allowed in RR-2.5 Zoning District.

The applicants are requesting three exceptions to policy. The first exception requested is in regards to Article 24 Parking Requirements, Section 5.4 Off Street Parking. This regulation calls for the parking area to have fencing or screening with a density of $100 \%$ and five feet in height. Due to the nature of the development, it is unsafe to have a parking area that is totally screened and enclosed. Staff is supportive of this exception request. The second exception request is an exception to the roadway spacing requirement set forth in Resolution 2020-37. This requires local roadways to be 1,320 feet from an intersection. Due to the location of the school, the addition of this section of $178{ }^{\text {th }}$ Street will be approximately 800' west of the intersection of Stillwell and Linwood (K-32). The submitted traffic study indicates the location of $178^{\text {th }}$ is appropriate and supports the requested exception. The third exception to policy is the location of the driveway into the school. This driveway does not meet the spacing requirement from the intersection as identified in Resolution 2020-37. The engineering consultant for Basehor Linwood has stated moving the driveway north of the school will impact the location of the lagoons and would require a substantial change to the site. The traffic study indicates there will not be excessive stacking and the location of the driveway will not impede the safe flow of traffic. Staff is generally supportive of these exceptions. The applicants provided an area on the school grounds for installation of an emergency warning system as requested by the Emergency management Department.

Recommendation: The Planning Commission voted 8-0 (1 member absent) to recommend approval of Case No. DEV-20-107 \& 108, Preliminary and Final Plat for Linwood South Elementary subject to conditions.

## Alternatives:

1. Approve Case No. DEV-20-107 \& 108, Preliminary and Final Plat for Linwood South Elementary, with Findings of Fact, and with or without conditions; or
2. Deny Case No. DEV-20-107 \& 108, Preliminary and Final Plat for Linwood South Elementary, with Findings of Fact; or
3. Revise or Modify the Planning Commission Recommendation to Case No. DEV-20-107 \& 108, Preliminary and Final Plat for Linwood South Elementary, with Findings of Fact; or
4. Remand the case back to the Planning Commission.

## Budgetary Impact:

X Not Applicable
Budgeted item with available funds
Non-Budgeted item with available funds through prioritization
Non-Budgeted item with additional funds requested

## Total Amount Requested:

$\$ 0.00$
Additional Attachments: Staff Report, Plat

## Basehor-Linwood South Elementary School



## GENERAL INFORMATION:

| Applicant/ <br> Property Owner: | Basehor-Linwood USD 458 - David Howard, SUPT. <br> PO Box 406 <br> Basehor, KS 66007 |
| :--- | :--- |
| Agent: | Schlagel \& Associates PE |
| Legal Description: | A tract of land in the Southwest quarter of Section 32, Township11 South, <br> Range 22 East of the $6^{\text {th }}$ P.M, in Leavenworth County, Kansas. |
| Parcel Size: | $\pm 20.88$ acres |
| Zoning/Land Use: | RR-2.5, Rural Residential 2.5-acre minimum size parcels |
| Comprehensive Plan: | This parcel is within the Rural Residential land use category. |
| Parcel ID No.: | $189-32-0-00-00-005.02$ |
| Planner: | Krystal A. Voth |

## REPORT:

## Request

The Planning Commissioner voted 8-0 (1 member absent) to recommend approval of Case No. DEV-20-107 \& 108, Preliminary and Final Plat for Linwood South Elementary, with the following conditions:

1. Building permits shall be required for any new construction.
2. Erosion control shall be used when designing and constructing driveways. A form of sediment control shall be installed before work begins and maintained throughout the time that the land disturbing activities are taking place. Re-vegetation of all disturbed sites shall be completed within 45 days after completion of final grading weather permitting.
3. The applicant shall adhere to the following memorandums:
a. Olsson Engineering - Public Works, November 24, 2020
b. Wayne Malnicof - County Surveyor, September 29, 2020
c. Mike Kriesel - State Fire Marshall, November 12, 2020
d. David Renaldi - Rural Water District 7, September 17, 2020
e. David Seitz - KDOT, October 29, 2020
4. The lagoons shall be regularly inspected and in conformance with KDHE at all times.
5. Fire Protection shall be required per the State Fire Marshall.
6. An exception to Article 25.5.4 - Parking Requirements for screening shall be granted with approval of the plat.
7. An exception to Resolution 2020-37 - minimum roadway spacing shall be granted with approval of the plat.
8. An exception to Resolution 2020-37 - minimum driveway spacing shall be granted with approval of the plat for the driveway to the school. Any future driveways may be subject to current and applicable resolutions or policies for driveway spacing.
9. All necessary easements shall be executed prior to the recording of the plat.
10. After approval of this subdivision by the Board of County Commission, all conditions listed shall be adhered to and copies shall be provided to the Planning and Zoning Department within 30 days.

## Request

The applicant is requesting a Preliminary and Final Plat for a single-lot subdivision.

## Adjacent Land Use

The surrounding properties are residences and farms on varying sized parcels ranging from 1 acre to over 140 acres in size.

## Flood Plain

There are no Special Flood Hazard Areas on this parcel per FEMA Firm Map 20103C350G July 16, 2015.

## Utilities/Services

Sewer: Private septic system
Fire: Sherman
Water: RWD 7
Electric: Evergy

## Access/Streets

The property will be accessed off of $178^{\text {th }}$ Street which is being built at the developers expense. Linwood Road is a State Maintained Arterial with a paved surface $\pm 24^{\prime}$ wide. Stillwell Road is a County road with a paved surface $\pm 22$ ' wide.

## Agency Comments

See attached comments - Memo - Olsson Engineering - Public Works, November 24, 2020
See attached comments - Memo - Wayne Malnicof - County Surveyor, September 29, 2020
See attached comments - Memo - Mike Kriesel - State Fire Marshall, November 12, 2020
See attached comments - Memo -David Renaldi - Rural Water District 7, September 17, 2020
See attached comments - Memo -David Seitz - KDOT, October 29, 2020
See attached comments - Memo -Mark Breuer - Schlagel \& Associates - response to final comments November 30, 2020 \& Request for Exceptions November 30, 2020

## Staff Comments

The Basehor-Linwood School District has experienced significant growth and requires the addition of a new elementary school. In order to serve the students and families in the southern part of Leavenworth County, the District has identified a property located at the northwest corner of K-32 (Linwood Road) and Stillwell Road. The site is approximately 20 acres. The property is located within the Rural Residential Zoning District. According to Article 19 - Table of Uses, schools are allowed in RR-2.5 Zoning District.

The school building will be situated in the southern portion of the lot on the westerly side. The parking lot for the school will be located south of the building structure. Additionally, there will be a playground area located behind the school. According to the submitted plans, the District expects growth in the future and has identified an area for additional classroom space. The lagoons to service the school will be located in the northern portion of the lot appropriately distanced from the school and playground. The lagoons are regulated and inspected by KDHE. Additionally, the school requires the addition of a public roadway, $178^{\text {th }}$ Street, which will be situated on the north side of Stillwell.

The applicants submitted a final plat, traffic study, drainage study, site plan/preliminary plat, photometric study, grading plan, stormwater plan, geotechnical report, conditional temporary construction easement, additional necessary easements and dedication of ROW for $178^{\text {th }}$ Street upon acceptance of project. Additionally, the applicants have submitted a concept acceptance letter from the Kansas Department of Transportation. Currently, the only major requirement from KDOT is the realignment of Stillwell Road where it intersects with Linwood Road. Further, the development as presented has received acceptance and approval from the State Fire Marshall's Office. The building will be inspected prior to occupancy by the State Fire

Marshall. All submitted items have been reviewed by Staff and the engineering consulting firm for Leavenworth County. The applicants have addressed points of concern and have submitted final documents for approval. Any outstanding comments are minor in nature and do not impact the overall design or development.

The applicants are requesting three exceptions to policy. The first exception requested is in regards to Article 24 Parking Requirements, Section 5.4 Off Street Parking. This regulation calls for the parking area to have fencing or screening with a density of $100 \%$ and five feet in height. Due to the nature of the development, it is unsafe to have a parking area that is totally screened and enclosed. Staff is supportive of this exception request. The second exception request is an exception to the roadway spacing requirement set forth in Resolution 2020-37. This requires local roadways to be 1,320 feet from an intersection. Due to the location of the school, the addition of this section of $178^{\text {th }}$ Street will be approximately $800^{\prime}$ west of the intersection of Stillwell and Linwood (K-32). The submitted traffic study indicates the location of $178^{\text {th }}$ is appropriate and supports the requested exception. The third exception to policy is the location of the driveway into the school. This driveway does not meet the spacing requirement from the intersection as identified in Resolution 202037. The engineering consultant for Basehor Linwood has stated moving the driveway north of the school will impact the location of the lagoons and would require a substantial change to the site. The traffic study indicates there will not be excessive stacking and the location of the driveway will not impede the safe flow of traffic. Staff is generally supportive of these exceptions. The applicants provided an area on the school grounds for installation of an emergency warning system as requested by the Emergency management Department.

Staff recommends approval of the Preliminary and Final Plat for the Basehor-Linwood South Elementary School.

## ACTION OPTIONS:

1. Approve Case No. DEV-20-107 \& 108, Preliminary and Final Plat for Linwood South Elementary, with Findings of Fact, and with or without conditions; or
2. Deny Case No. DEV-20-107 \& 108, Preliminary and Final Plat for Linwood South Elementary, with Findings of Fact; or
3. Revise or Modify the Planning Commission Recommendation to Case No. DEV-20-107 \& 108, Preliminary and Final Plat for Linwood South Elementary, with Findings of Fact; or
4. Remand the case back to the Planning Commission.

## ATTACHMENTS

Aerial Map<br>Memorandums<br>Preliminary and Final Plat



# COUNTY OF LEAVENWORTH <br> Department of Public Works 

300 Walnut, Suite 007
Leavenworth, Kansas 66048-2815
Phone (913) 684-0470
Fax (913) 684-0473

November 24, 2020
Mr. Mark Breuer, P.E.
Schlagel
14920 W. 107 ${ }^{\text {th }}$ Street
Lenexa, Kansas 66215

## Basehor Linwood South Elementary School

The Planning and Zoning Services Department and Public Works Department have reviewed the following documents:

- Right of Way and Utility Easement Documents along $178^{\text {th }}$ Street (From Jenkins) received 11.20.20.
- Final Plat and Final Plat Comments (from 11.09.20) and responses received on 11.20.20.
- State Fire Marshal Plan Review Approval Letter dated 11.12.20.
- Response Letter to 11.10.20 comments dated 11.20.20.
- Letter of Acknowledgement dated 11.03.20 and received 11.20.20.
- Public Improvement Plans dated 11.20.20 and received 11.20.20.
- Public Improvement Plan Comment Responses dated 11.10.20 and received 11.20.20.
- Private Construction Documents dated and received 11.20.20.
- Private Construction Documents Responses dated 11.09.20 and received 11.20.20.
- Traffic Impact Study dated 11.13.20 and received 11.20.20.

Below are comments from the received documents listed above. Direct any questions to Krystal Voth at kvoth@leavenworthcounty.gov.

## Right of Way and Utility Easement Documents

1. 11.10.20 Olsson Comment - Provide documentation showing all taxes are paid are up to date.
11.20.20 Schlagel Response - School District has filed for Tax Exemption and is awaiting approval from the County and State.
11.23.20 Olsson Response - Tax exemption certificate will not provide determination that taxes have been paid on the plat and ROW dedication (Jenkins).
2. 11.10.20 Olsson Comment - Review of easement and right of way documents are still under review by County's legal department.


# COUNTY OF LEAVENWORTH <br> Department of Public Works 

300 Walnut, Suite 007
Leavenworth, Kansas 66048-2815
Phone (913) 684-0470
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11.20.20 Schlagel Response - Noted. Revised documents have been included with this submittal that show the right of way revision north of the construction limits.
11.23.20 Olsson Response - Revised documents are under review by County's legal department.
3. 11.10.20 Olsson Comment - Right of Way and easement documents outside of the final plat shall be approved by the County and filed with the register of deeds prior to the execution of the plat and any permitting.
11.20.20 Schlagel Response - Noted.

## Final Plat Review

1. 11.10.20 Olsson Comment - See comments dated 11.09 .20 on the Final Plat.
11.20.20 Schlagel Response - Final Plat comments have been addressed and revised Plat is submitted with this application.
11.20.20 Olsson Response - No Further comments. The review of the final plat was found to generally conform to Leavenworth County standards.
2. 11.10.20 County Comment - Per 11.06 .20 correspondence from Krystal, it is acceptable for the ROW on the Jenkins property to tapper down to 30 ' north of the limits of the temporary cul-de-sac including drainage. The tapper would begin over 600' past the centerline of 178th and Stillwell Rd. Revise Plat.
11.20.20 Schlagel Comment - Revised documents submitted with resubmittal.
11.23.20 Olsson Comment - No further comment.

## Geotechnical Report

1. 11.10.20 Olsson Comment. - Document will be part of the project file as it is referenced in the public improvement plans. Note: The County and Olsson did not review the document for general conformance according to engineering standards.
11.20.20 Schlagel Response - Noted.


## COUNTY OF LEAVENWORTH

Department of Public Works
300 Walnut, Suite 007
Leavenworth, Kansas 66048-2815
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## KDOT Concept Acceptance Letter for the TIS dated 10.20.20

1. 11.10.20 Olsson - No Comments
11.20.20 Schlagel - Noted.

## Traffic Impact Study dated 11.13.20 and Response Letter dated 11.20.20

Basehor-Linwood Elementary Traffic Impact Study dated 11.13.2020 has been reviewed for general conformance according to County requirements and/or engineer standards. No exceptions were noted.

Note: The determination of general conformance does not warranty such report and does not relieve the engineer of record of its obligations and requirements to meet the industry required standard of care. Engineer of record is solely responsible for all contents of the report regardless of the review provided.

## Trash Enclosure

1. 11.10.20 Olsson Comment - No Comments on the trash enclosure plan received on 11.03.20. Note: The County and Olsson did not review the document for general conformance according to engineering standards.

## State Fire Marshall Plan Review Approval

1. 11.10.20 Olsson Comment - Document will be part of the project file. Note: The County and Olsson did not review the document for general conformance according to engineering standards.

## Private Construction Documents

1. 11.10.20 Olsson Comment - Comment - Per Article 24, Section 5, \#4 Off-street parking for 4 or more spaces located on land adjacent to property zoned for residential use shall be screened with screening or fencing having a density of not less than $100 \%$ and least 5 feet in height. Per documents, screening or fencing will not be provided. Applicant needs to request an exception.
11.20.20 Schlage Response - Exception has been requested on the plat.
11.23.20 Olsson Response - No request was found on plat. Please provide Krystal with an exception request.
2. 11.10.20 Olsson Comment - Will a fence be proposed and installed along K-32 for safety concerns?
11.20.20 Schlagel Response - No fence is being proposed along K-32.
11.23.20 Olsson Response - Noted.


# COUNTY OF LEAVENWORTH <br> Department of Public Works 

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3. See comments on the private construction documents dated 11.09.20.
11.20.20 Schlage Response - Comments have been addressed.
11.23.20 Olsson Response - Basehor-Linwood Elementary Private Site Plans dated 11.20.2020 has been reviewed for general conformance according to County requirements and/or engineer standards. No exceptions were noted.

Note: The determination of general conformance does not warranty such documents and does not relieve the engineer of record of its obligations and requirements to meet the industry required standard of care. Engineer of record is solely responsible for all contents of the documents regardless of the review provided.

## Site Grading Plan Comment Response Letter

1. 10.29.20 Olsson Comment - Grading located on the south side of Stillwell Road at the proposed intersection of $178^{\text {th }}$ Street and Stillwell Road was shown to go beyond the existing right-of-way.
11.03.20 Schlagel Response - Grading was revised in this location given more accurate information. Currently with $4: 1$ side slopes a 3 ' easement would be required. If acceptable to the County we would propose to use a $3: 1$ and $V$ bottom ditch section for this specific 150 ' stretch so an easement is no longer required.
11.09.20 Olsson Response - Noted and acceptable.
11.20.20 Schlage Response - Final grading has been revised. No TCE will be required to the south of Stillwell.
11.23.20 Olsson Response - Noted.

## Letter of Acknowledgement

1. 11.10.20 Olsson Comment - Provide the County with a signed copy.
11.20.20 Schlage Response - Signed copy attached with submittal.
11.23.20 Olsson Response - No further comment.
2. 11.10.20 Olsson Comment - Contact Lauren Anderson with the County regarding the bond form. Bond length is 1 year.
11.20.20 Schlage Response - Noted.


# COUNTY OF LEAVENWORTH <br> Department of Public Works 

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3. 10.30.20 Olsson Comment \#8 - County Public Roadway subgrade and pavement improvements will be conducted after the majority of building construction requiring trucks. Public Works shall determine when the majority of construction is complete to start subgrade and pavement operations.
11.03.20 Schlagel Response - Acknowledged. The construction of the school and associated Public Roadway improvements requires complex construction sequencing. It is the intent of the Owner to have all Public Roadway improvements completed prior to building construction. The Owner is willing to work with the County on the reasonable timing of the improvements, but also must be able to allow their contractor reasonable ways and means to construct the site improvements.
11.09.20 County Response - Add note on the public improvement plans to the follow effect:

Contractor to provide the Public Works Department the construction schedule for review two weeks prior to construction.
11.20.20 Schlagel Response - Note has been added to the Public Improvement Plans.
11.23.20 Olsson Response - No further comment.
4. 11.10.20 Olsson Comment - The letter indicates attachments. Please clarify the County has received all documents.
11.20.20 Schlagel Response - No additional comments.
11.23.20 Olsson Response - No further comment.

## Public Improvement Plans

1. 11.10.20 Olsson Comment - See comments on the private construction documents dated 11.10.20.
11.20.20 Schlagel Response - Private construction documents have been revised.
11.23.20 Olsson Response - See follow up comments 3-6 below.
2. 10.30.20 Olsson Comment - Grading located on the south side of Stillwell Road at the proposed intersection of $178^{\text {th }}$ Street and Stillwell Road was shown to go beyond the existing right-of-way.


# COUNTY OF LEAVENWORTH <br> Department of Public Works 

300 Walnut, Suite 007
Leavenworth, Kansas 66048-2815
Phone (913) 684-0470
Fax (913) 684-0473
11.03.20 Schlagel Response - Grading was revised in this location given more accurate information. Currently with $4: 1$ side slopes a 3 " easement would be required. If acceptable to the County we would propose to use a $3: 1$ and V bottom ditch section for this specific 150 ' stretch so an easement is no longer required.
11.09.20 Olsson Response - Noted and acceptable.
11.20.20 Schlagel Response - Final grading has been revised. No TCE will be required to the south of Stillwell.
11.23.20 Olsson Response - No further comment.
3. 11.23.20 Olsson Comment - Section 1 on Sheet 5 indicates a pipe diameter of 1.25' for Line 400. Sheet 16 indicates a $2^{\prime}$ diameter for Line 400. Revise.
4. 11.23.20 Olsson Comment - On Sheet 16, revise ditch grading to Structure 103 to remove hump.
5. 11.23.20 Olsson Comment - On Sheet 16, Line 400, change FES to 24 " instead of 15 ".
6. 11.10.20 Olsson Comment - Sheet 19, Per the Geotech Report (page 10-11), it is recommend the upper 12" of parent soil subgrade be chemically treated. Confirm this would apply to the public streets.
11.20.20 Schlagel Response - Detail has been added.
11.23.20 Olsson Response - Add to the detail label to include "(Chemically Treated)"

Final Stormwater Management Plan Dated 8.28.2020

1. County has not received an update or response on minor comments dated 9.29 .2020 to the Final Stormwater Management Plan.
2. Update report to coordinate with private and public construction documents.

# State Fire Marshal <br> 800 SW Jackson <br> Suite 104 <br> Topeka, KS 66612-1216 <br> PLAN REVIEW APPROVED - ICC 

Thursday November 12, 2020

## USD 458 LINWOOD ELEMENTARY NEW

K32 AND STILLWELL RD
BONNER SPRINGS, KS 66012

We have completed a review of the design submittal received on Thursday November 12, 2020
The design submittal appears to be in compliance with the fire and life safety provisions of the Kansas Fire Prevention Code thus allowing the construction and/or installation work to commence. Submittal acceptance subject to comments listed below.

Plan reviews by the Kansas State Fire Marshal are cursory in nature, and compliance to the appropriate standards is expected. Comments provided by other reviewing parties or authorities having jurisdiction shall be acknowledged. Any omission of requirements on submitted plans or any omission during plan review shall in no way authorize any violation of applicable requirements under the Kansas Fire Prevention Code. Acceptance of design submittal shall not be construed to be an acceptance of items that do not conform toKansas Fire Prevention Code.

Construction and/or work zones shall be separated from occupied areas by one-hour rated construction (or smoke resistive if sprinkler system is maintained on both sides of separation), per OSFM guidelines. Any temporary egress must be approve by OSFMAdditionally, the OSFM has the authority to verify at any time that construction and/or installation work complies with the accepted plans and state-adopted regulations.

Each project will require an inspection at $50 \%$ completion. A request for inspection must be made to the licensing agency at least 30 -days before the $50 \%$ milestone. Fire Protection System shall adhere to the engineered drawings, manufacturer requirements/listings, and the appropriate Codes and Standards. The responsible contractor shall leave a copy at the facility of the final test report verifying that theinstalled fire protection system is in proper and compliant working condition. The completed fire protection system installation is subject to verification by OSFM. If changes are required in construction, separation to occupied spaces, or temporary egress, these changes must be approved, in writting, by OSFM. All work on the project shall stop until an approval is obtained. If the project, at any point, cannot maintain the required separation or causes any impairment to any fire protection system, the OSFM must be notified and the facility must perform a fire watch until the conditions are corrected. Failure to comply with these requirements could result in significant penalties including citation of Immediate Jeopardy or the issuance of an order to cease and desist.

Fire alarm, automatic suppression systems, and other extinguishing system plans must be submitted separately for review and approval, before final inspection. Final inspection and referral to licensing agency are required prior to final occupancy. The Office of the State Fire Marshal has reviewed these plans for compliance with the applicable codes and standards.

State and local licensing agencies may impose additional requirments.
11/12/2020 02:13:47 PM Mike Kriesel
PLAN REVIEW APPROVED AS SUBMITTED.

## Kriesel, Mike /Fire Protection Specialist

Fire Protection Specialist

# State Fire Marshal <br> 800 SW Jackson <br> Suite 104 <br> Topeka, KS 66612-1216 <br> PLAN REVIEW APPROVED - ICC 

Thursday November 12, 2020

## USD 458 LINWOOD ELEMENTARY NEW

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State and local licensing agencies may impose additional requirments.
11/12/2020 02:13:47 PM Mike Kriesel
PLAN REVIEW APPROVED AS SUBMITTED.

## Kriesel, Mike /Fire Protection Specialist

Fire Protection Specialist

October 29th, 2020

Jeffrey Wilke
2400 Pershing Road
Suite 400
Kansas City, MO 64108
RE: Concept Acceptance for Basehor-Linwood Elementary School TIS

Dear Mr. Wilke:
This letter is in response to a Traffic Impact Study (TIS) written by Jeffrey J. Wilke, P.E., for the future BasehorLinwood Elementary School, at the northwest quarter of the K-32 and Stillwell Road intersection in Leavenworth County.

KDOT has reviewed the TIS and accepted "in concept" the recommendations listed in the traffic impact study dated October $20^{\text {th }}$, 2020. KDOT will give Concept Acceptance for the change in use and geometric improvements to the K-32 and Stillwell Road Intersection.

We have the following general comments regarding this approval:

- A new TIS will be required for any development in which a prior TIS is more than two years old or where increased land use intensity in the immediate area of the proposed development will result in an increase in traffic generation on the surrounding transportation system by more than ten percent.
- Current KDOT practices and policies will apply to the design of the improvements identified in the TIS. Plans will be needed before a permit can be issued to the property owner.
- A Certificate of Liability Insurance will be required prior to issuing the Highway Access Permit. The coverage limits need to be in accordance with Access Management Policy section 5.3.2 by the entity performing the work.
- Construction cannot begin until a Highway Access Permit (Form 309) has been received by the property owner. The application (Form 827) can be obtained from the KDOT website (http://www.ksdot.org/accessmanagement) or at the local Area Office. The application will need to be submitted to the Area Office.
- Additional work may be needed for access completion, including, but not limited to the following: relocation of utilities, reconstruction of open ditch, pavement markings, traffic control, permanent signing and/or extensions of hydraulic structures.
- The improvements will not be funded by KDOT.
- This Concept Acceptance does not supersede any requirements the local authority (City or County) may have regarding accesses.

This acceptance will be valid for two years after the date of the above mentioned TIS. This Concept Acceptance letter is valid until October 29 ${ }^{\text {th }}, 2022$.

If you have any questions, please contact this office at (785) 368-7099.

Sincerely,
David Seitz
Special Projects Manager
David.Seitz@ks.gov
c: Leroy Koehn, P.E., District Engineer Jason Van Nice, P.E. Area 3 Engineer

November 3, 2020
Krystal Voth, Planning Director
Leavenworth County Planning \& Zonning
300 Walnut, Suite 007
Leavenworth, Kansas 66048

## Basehor Linwood South Elementary School

The Planning and Zoning Services Department and Public Works Department have reviewed the following documents:

- Revised Traffic Impact Study (TIS) dated 10.20.20 and received 10.20.20.
- Site Plan (C100 \& C200) received 10.15.20.
- $178^{\text {th }} \&$ Stillwell Street and Storm Sewer Public Improvement Plans received 10.15.20.
- Final plat received 10.15.20.

Comments regarding Site Plan (C100 \& C200), $178^{\text {th }} \&$ Stillwell Public Improvement Plans, and Final Plat are attached within subject documents.

Review of the TIS is below and attached within the subject document.

Direct any questions to Krystal Voth at kvoth@leavenworthcounty.gov.

## Traffic Impact Study Review

1. Pages 6 and 7 : In addition to considering corner clearance, applicant should consider intersection influence area of Stillwell Road and $178^{\text {th }}$ Street when determining location of access on $178^{\text {th }}$ Street. Considering future development, southbound queuing along $178^{\text {th }}$ Street is expected to approach the parking lot driveway. Considering expected queuing and intersection influence area, recommend relocation of parking lot driveway further north along 178 ${ }^{\text {th }}$ Street. Approximately 80 feet of road surface between curb returns of Stillwell Road and parking lot driveway. (See comments on site plan within the TIS.)
RESPONSE: See revised TIS.
2. Page 11/Table 8: Per e-mail from Jeff Wilke on October $22^{\text {nd }}, 2020$, the number of houses considered west on Stillwell Road was 105 not 125 as indicated in the report. The trip generation provided in Table 8 is accurate for 105 homes.
RESPONSE: See revised TIS.
3. Site plan (Figure A-2):
a. The proposed Parking Lot Drive should be adjusted north to improve spacing from Stillwell Road. Drive location could potentially be aligned with exiting traffic, although influence area should be checked to determine if adequate space is provided. Adjusting the drive location may also impact spacing with the bus drives.

RESPONSE: As discussed with county staff on 11.2.2020 there are site design factors that would be severely effected by shifting the bus loop and entrance further north. In addition to the topographic challenges this would present it would also force the entire building to the north to allow the bus loop to meet the proposed exit and pick up plan for the building as well as the north entrance of the bus loop aligning with the overflow parking and the southern entrance aligning with the trash enclosure as well as transformer pad. If the building is to shift north we would then not meet the KDHE requirements for the lagoon set back distances. If the bus loop is to shift North without the building it will cause the trash enclosure to become removed from the appearance of the building and removes the aforementioned alignments.
b. The staging area for student drop-off/pick-up will block the majority of parking making it inaccessible. Provide statement in the TIS regarding this comment.
RESPONSE: It is anticipated that only 6 cars will be loading at a single time and that a majority of staff will be responsible for these events to provide supervision and the safety of the students. Therefore it is not anticipated that there will be an unnecessary amount of parking blocked. The proposed layout will also allow for the parking spots closest to the entrance to be unblocked. As shown on the Site Plan there is also an excess amount of required parking giving more flexibility of parking locations and/or "Pull Through" situations.
c. Is adequate parking available to support school events? The roadway network will not support on-street overflow parking and on street parking is prohibited on public streets. Add a narrative in the TIS regarding all special events to be planned to ensure adequate parking onsite.
RESPONSE: The proposed school will allow for event "overflow parking" into the hard surface play areas. This is similar to the other schools in the district. All events in addition will be planned to ensure parking is available onsite. As the building expands there is also additional parking that will be proposed on the east end of the building. Additionally the site has approximately 30 extra parking spots than is required per the Leavenworth County Planning \& Zoning Regulations.
4. Turning templates: Provide turning template for northbound left-turn movement on K-32 to Stillwell Road. May impact location of stop bar.
RESPONSE: Turning movement has been revised within TIS.
5. Page 6: Proposed spacing of $178^{\text {th }}$ Street from K-32 (along Stillwell Road) is 610 feet. Although this is below the county minimum spacing standard for public streets, the spacing is expected to be adequate to support expected operations. The spacing is also expected to be adequate to accommodate any needed future improvements (turn lanes).
Include statement that improvements do not meet current spacing standards, and how the improvements are safe and operationally acceptable.
RESPONSE: See revised TIS.
6. Operations along $178^{\text {th }}$ Street are expected to be acceptable. Dependent upon the density of the housing development that occurs north of $178^{\text {th }}$ Street and is serviced by this roadway, drivers could experience delay during the AM peak hour period by the southbound left-turn movement into the school drive.

Include a statement that improvements how the improvements are safe and operationally acceptable.
RESPONSE: See revised TIS.

If you have any further comments or questions, please do not hesitate to contact me. Thank you.
Sincerely,
SCHLAGEL \& ASSOCIATES, P.A.

Mark A. Breuer, PE
Principal / Engineering Manager
Direct Dial 913-322-7154
MAB@schlagelassociates.com
/mdr
Attachments

## Basehor-Linwood Elementary Traffic Impact Study

## K-32 and Stillwell Road

Leavenworth County, Kansas


IranSystems
Prepared for:
Basehor-Linwood USD 458

Prepared by TranSystems
October 2020

# Tran Systems 

EXPERIENCE \| Transportation

## TranSystems

2400 Pershing Road
Suite 400
Kansas City, MO 64108
Tel 816 3298600
Fax 8163298601
www.transystems.com

October 30, 2020

Mr. David Howard
Basehor-Linwood USD 458
2008 N. I55th
Basehor, KS 66007

## RE: Basehor-Linwood Elementary School Traffic Impact Study K-32 and Stillwell Road Leavenworth County, Kansas

Dear Mr. Howard:
In response to your request and authorization, TranSystems has completed a traffic impact study for the proposed elementary school to be located generally in the northwest corner of the K-32 Highway and Stillwell Road near Linwood, Kansas in rural Leavenworth County. The purpose of this study was to assess the impact of the proposed development on the surrounding transportation system.

Included in this study is a discussion of the anticipated impact of the proposed development on the adjacent street network and identified improvements to mitigate deficiencies for the following scenarios:

- Existing Conditions
- Existing plus Development Conditions
- Future (Year 2040) Conditions

We trust that the enclosed information proves beneficial to you, Leavenworth County, and the Kansas Department of Transportation in this phase of the development process. We appreciate the opportunity to be of service to you and will be available to review this study at your convenience.

Sincerely,
TRANSYSTEMS


JJW/ehm/PIOII 90287
Enclosure

## Introduction

TranSystems has completed a traffic impact study for the proposed Basehor-Linwood elementary school to be located generally in the northwest corner of K-32 Highway and Stillwell Road near Linwood, Kansas in rural Leavenworth County. The purpose of this study was to assess the impact of the proposed development on the surrounding transportation system. The location of the development site relative to the major streets in the area is shown on Figure A-I in Appendix A.

This study also contains a description of the proposed development and the surrounding transportation infrastructure along with trip generation estimates, trip distribution estimates, capacity analyses, and a summary of the findings.

## Proposed Development Plan

An elementary school is proposed on a 20 acre site. The proposed school will have a maximum capacity of 432 students. The school building will be located in the southern portion of the site. A parking lot designated for student pick-up and drop-off activity will be located along the south side of the school building. A bus loop will be located along the west side of the building. A copy of the proposed site plan is included on Figure A-2 in Appendix A for reference.

Several roadways will be improved in conjunction with the development plan. Stillwell Road will be improved to meet the County's local road standards. This includes two 12-foot lanes with turf shoulders and ditches. Stillwell Road will be improved from the intersection with K-32 to the intersection with 178th Street, which includes the entire frontage of the school site.

The school will be accessed from a new local roadway, I78th Street, which will be constructed along the west property line of the site. 178th Street will be constructed as a two-lane local roadway for approximately 500 feet to the north of Stillwell Road. A driveway onto 178 th Street will connect to the school's parking lot. The bus loop will also connect to 178th Street with an inbound and outbound driveway.

## Study Area

To assess the impacts of the proposed development, the intersections listed below were identified for study during the A.M. and P.M. periods of a typical weekday.

- K-32 and Stillwell Road
- I82nd Street and Stillwell Road


## Traffic Counts

The turning-movement traffic volume counts were collected at both of the study intersections on Wednesday, October 30, 2019. The turning movement counts were collected from 7:00 to 9:00 A.M. and from 4:00 to 6:00 P.M. The A.M. peak hour occurred between 7:00 and 8:00 A.M. and the P.M. peak hour occurred between 4:45 and 5:45 P.M. at the intersection of K-32 and Stillwell Road. The existing lane configurations, traffic control devices, and peak hour traffic volumes have been illustrated on Figure A-3.

## Surrounding Land Uses and Street Network

Adjacent to the development site, K-32 Highway is a two-lane asphalt roadway with 3 -foot shoulders and turf slopes to ditches along each side of the road. The highway is roughly 24 feet in width with two 12 foot lanes. The horizontal alignment of K-32 Highway is straight and the vertical alignment is generally level. However, there is a slight crest vertical curve to the north of the intersection of K-32 and Stillwell Road. The posted speed limit on K-32 Highway is 65 mph .

As part of the state highway system, K-32 Highway runs northeast/southwest near the proposed elementary school. K-32 Highway is a Class D route with no access control designation, and it is not a planned corridor. It is the primary highway route between Linwood and Bonner Springs. According to the Kansas Department of Transportation (KDOT) 2018 traffic flow map, the average annual daily traffic volume on this segment of K-32 is 3,550 vehicles, with approximately 7 percent of that being heavy commercial volume. It should be noted that lower truck percentages were observed in the turning movement counts. The truck percentages observed in the counts were used in the operational analyses.

Stillwell Road runs east/west and is the southern boundary of the proposed elementary school site. West of K-32 Highway, Stillwell Road is a two-lane road paved road that is approximately I8-feet wide with no posted speed limit. There are several tight horizontal curves in the roadway just to the east of the I82nd Street intersection. East of K-32 Highway, Stillwell Road is a two-lane gravel road. Based on the KDOT Functional Classification map of Leavenworth County, Stillwell Road is classified as a local road.

The first north/south road to the west of the proposed elementary school is 182nd Street. The segment of I82nd Street adjacent to Stillwell Road is a two lane gravel road. Based on the KDOT Functional Classification map of Leavenworth County, I82nd Street is classified as a minor collector road.

The development site currently consists of undeveloped land used for agricultural purposes. The land is also undeveloped in all directions surrounding the site. There are a few rural residential homes farther to the east and south of the site. The elementary school site is bounded on the east by K-32 Highway and on the south by Stillwell Road.

## Analysis

The scope of analysis for the assessment of the proposed development's impact on the surrounding transportation system is largely based on the recommended practices of the Institute of Transportation Engineers (ITE), as outlined in their Traffic Engineering Handbook. ITE is a nationally-recognized organization of transportation professionals with members from both private and public sectors. The analysis of the proposed development's impact included development of trip generation and trip distribution estimates as well as a traffic operations assessment for each study scenario. Each of the analysis methodologies and findings are described in the subsequent sections.

## Trip Generation

Trip generation estimates were prepared using the Institute of Transportation Engineer's Trip Generation Manual, IOth Edition. Table I on the following page shows to expected trips to be generated by the
proposed development. The traffic volumes were projected using the peak hour generator category, however they were added on top of the existing A.M. and P.M. peak hour traffic volumes for a conservative estimate during the analysis. The trip generation was designed based on full capacity of the school, which is 432 students at maximum capacity.

| Table I <br> Proposed Development Trip Generation |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Land Use | Intensity | ITECode | Average Weekday | A.M. Peak Hour |  |  | P.M. Peak Hour |  |  |
|  |  |  |  | Total | In | Out | Total | In | Out |
| Elementary School | 432 students | 520 | 737 | 28I | 152 | 129 | 147 | 67 | 80 |

## Trip Distribution

The estimated trips generated by the proposed development were distributed onto the street system based on the trip distributions summarized in Table 2. These distributions are based on data provided by school district staff, existing traffic patterns, and engineering judgment. The detailed distribution patterns through the study intersections are shown in Appendix B.

| Table 2 <br> Trip Distribution |  |
| :--- | :---: |
| Direction To/From | Percentage |
| North on K-32 | $50 \%$ |
| South on K-32 | $25 \%$ |
| East on Stillwell Road | $20 \%$ |
| West on Stillwell Road | $5 \%$ |
| Total | $\mathbf{1 0 0 \%}$ |

## Access Management Considerations

The Kansas Department of Transportation's Access Management Policy includes guidelines for the location and design of access points along the state highway system. The following sections include a review of the proposed access and the K-32 Highway and Stillwell Road intersection based on the guidelines of the policy.

## Auxiliary Turn Lanes

The Access Management Policy includes warrants for auxiliary turn lanes at intersections. The warrants are based on the speed limit and traffic volumes. The speed limit on K-32 Highway adjacent to the site is 65 mph . The traffic volumes associated with the elementary school will satisfy both the left- and right-turn lane warrants at K-32 and Stillwell Road. The southbound right-turn lane should have a minimum length of 555 feet with a 240 -foot straight line bay taper. The northbound left-turn lane should have a minimum length of 650 feet with a 240 -foot straight line bay taper. Widening for the left-turn lane will be
accomplished by adding six feet of width to each side of K-32 Highway. Through lane tapers of 390 feet are needed to shift the through lanes.

Leavenworth County does not have guidance to determine when turn lanes are warranted. Using KDOT turn lane warrant criteria, it is evident that traffic volumes are well below KDOT minimum volume criteria for turn lanes at the Stillwell Road intersections with 178th Street and I82nd Street. As such, turn lanes are not warranted at the 178th or 182nd Street intersections with Stillwell Road.

## Intersection Configuration

The intersection of K-32 Highway and Stillwell Road is skewed with an angle of intersection of approximately 50 -degrees. The Access Management Policy indicates that all intersections should have a 90 -degree angle of intersection. At this location it would be difficult to achieve a 90 -degree angle without significant impacts to adjacent properties. A Policy on Geometric Design of Highways and Streets (7th Edition), also referred to as the AASHTO Green Book published by the American Association of State Highway and Transportation Officials (AASHTO) states that although a right angle crossing is normally desired, some deviation from a 90 -degree angle is permissible. Reconstructing an intersection to provide an angle of at least 75 degrees provides most of the benefits of a 90 -degree intersection. Appendix $\boldsymbol{D}$ includes illustrations of the proposed conceptual geometry for the intersection showing Stillwell Road realigned to achieve a 75 -degree angle of intersection.

## Sight Distances

Another consideration in the configuration of the intersection is sight distance. Intersection sight distance is provided at intersections to allow the drivers of stopped vehicles to depart from their approach and enter or cross the uncontrolled street. These distances are generous, allowing enough distance for the stopped driver to complete their turning or crossing maneuver without requiring through traffic on the uncontrolled street to reduce their speed. Stopping sight distance is the minimum distance required to allow for a vehicle to stop before reaching a stationary object in its path.

Sight distance and stopping sight distance evaluation criteria is provided in the AASHTO Green Book. The minimum values for passenger cars and single-unit trucks for the K-32 Highway and Stillwell Road intersection are shown on the next page in Table 3. A single-unit truck is considered to have characteristics similar to a school bus. The values in the table reflect additional distance for vehicles to cross an additional lane, since a left-turn lane will be constructed.

The exhibits in Appendix $\mathbf{D}$ illustrate intersection sight distances in consideration of the proposed improvements and the vertical and horizontal alignments of both K-32 Highway and Stillwell Road. Looking to the south along K-32, sight lines are excellent and the available sight distances are well in excess of the values shown in Table 3.

When looking to the north along K-32 from the west leg of the Stillwell Road intersection, traffic in the proposed right-turn lane will block a stopped driver's line of sight. For that reason, the right-turn lane is to be offset from the through lane to provide a clear sight line. With that offset, the exhibits in Appendix

D indicate that a driver stopped on either approach of Stillwell Road will have adequate sight distance when looking to the north along K-32 Highway. The offset will also allow the southbound right-turn movement to be channelized and operate under yield sign control.

| Table 3 <br> Recommended Intersection Sight Distances K-32 Highway and Stillwell Road |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Intersection Sight Distance, feet |  |  |  | Stopping Sight Distance, feet |
| Design Vehicle | Left-Turn from Minor Road | Right-Turn from Minor Road | Crossing Maneuver from Minor Road | Left-Turn from Major Road |  |
| Passenger Car | 765 | 625 | 670 | 575 | 645 |
| Single-Unit Truck | 975 | 815 | 880 | 625 | 645 |

Sight distances were measured in the field at I82nd Street and Stillwell Road. The field measured sight distances are compared to AASHTO criteria in Table 4.

| Table 4 Intersection Sight Distances I82nd Street and Stillwell Road |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 182nd <br> Street Approach | Direction Looking along Stillwell Road | Intersection Sight Distance, feet |  | Stopping Sight Distance, feet |  |
|  |  | Field Measured | Recommended' | Field <br> Measured | Recommended ${ }^{2}$ |
| Northbound | East | 310 | 390 | 165 | 250 |
|  | West | 340 | 335 | 440 | 271 |
| Southbound | East | 120 | 335 | 165 | 250 |
|  | West | 440 | 390 | 440 | 271 |

I - AASHTO Green Book criteria for an approach speed of 35 mph for right- and left-turn maneuvers
2 - AASHTO Green Book criteria for 35 mph . West leg values adjusted for $6 \%$ downhill grade.
The measurements in Table 4 indicate that sight distances are limited for several movements. Clearing the foliage within the right-of-way along the south side of Stillwell Road west of I82nd Street would improve visibility to improve the intersection sight distance when looking to the west from the south leg of the intersection. In the northeast quadrant of the intersection, trees should be trimmed back to the right-of-way line. Even with the tree trimming, the horizontal curvature of Stillwell Road will limit sight lines for drivers stopped on I82nd Street when looking to the east.

To address the sight distance concerns, warning signs should be installed to alert drivers on Stillwell Road of the I82nd Street intersection and the horizontal curves. Cross Road warning signs (MUTCD No. W2I), with a 15 mph Advisory Speed plaque (MUTCD No. WI3-I) should be installed for eastbound and
westbound traffic in advance of the intersection. While 15 mph is significantly less than the 35 mph posted speed limit for the roadway, the roughly 150 -foot radii of the three horizontal curves requires a speed reduction for drivers to safely travel through the curves. Winding Road signs (MUTCD No. WI-5), with a 20 mph Advisory Speed plaque (MUTCD No. WI3-I) should be installed for eastbound and westbound traffic in advance of the first curve in each direction.

## Intersection Spacing

The proposed I78th Street intersection on Stillwell Road is 610 feet west of K-32 Highway and I,950 feet east of I82nd Street, when measured between the centerlines of the roadways. The distance between 178th Street and K-32 Highway is less than Leavenworth County's access management standards, which indicate 1,320 foot minimum spacing between public streets. The distance between I82nd Street and 178th Street exceeds the County's minimum spacing requirements.

Given the close spacing of the 178th Street and K-32 Highway intersections along Stillwell Road, the intersection influence areas were calculated. Stillwell Road has no posted speed limit adjacent to the development site. Similar roads around the area have a posted speed limit of 35 mph , so that speed limit was assumed to determine the functional area of the intersections along Stillwell Road. The intersection influence areas are illustrated on Figure A-IO in Appendix A, based on the queue lengths from the Existing plus Development Conditions operational analyses.

The influence areas of the two closely spaced intersections on Stillwell Road are projected to slightly overlap by about 34 feet in the eastbound direction. With the realignment of Stillwell Road, there will be roughly 550 feet between 178th Street and an eastbound drivers stopping point at the K-32 Highway intersection. While it is generally undesirable for influence areas to overlap, it should be noted that 178th Street is located as far from K-32 Highway as it can be on this site. The following sections will include an evaluation of traffic operations at the intersections and additional discussion of the intersection spacing will be provided with the results of the analysis.

As a local street, the Leavenworth County access management standards require driveways to be spaced 125 feet apart along 178th Street. Additionally, the County's corner clearance requirements state that a driveway must be spaced a minimum of 100 feet from an intersection. The parking lot driveway to the school is 135 feet north of the Stillwell Road intersection. The inbound drive for the bus loop is 155 feet north of the parking lot drive, and the outbound drive for the bus loop is 205 feet north of the inbound drive. Therefore all drives meet the County's minimum spacing and corner clearance requirements, when measured between centerlines.

## Throat Length

Throat length is the distance along a driveway to the first on-site location where a driver can make a turn. At the school parking lot driveway, traffic will flow one-way counter-clockwise through the lot. During pick-up and drop-off times, one-way flow will allow for traffic to queue in two lanes after entering the driveway. Drivers will form a single line after making the turns in the parking lot, in advance of the front entrance to the school building. This arrangement will allow for as many as 58 vehicles to queue in the
parking lot, which is similar to the queue storage provided at two of the District's other elementary schools, Basehor Elementary School and Glenwood Ridge Elementary School. These schools have similar enrollment to what is planned for the proposed school.

The after school time period is when queues are typically at their longest at a school site. This is the time when drivers arrive to pick-up students before dismissal. As drivers arrive at the school, the queues build until students are dismissed. The trip generation calculations in Table I estimate that 67 vehicles are projected to arrive at the site during the afternoon peak hour. Therefore the parking lot drive can store nearly all of the vehicles that are estimated to travel to the site during this peak time. Not all of the trips to the site will be drivers arriving before school is dismissed to pick-up students, therefore the queue storage of 66 vehicles should be adequate to store the anticipated queues on site. Additional queue storage for up to 20 more vehicles may be possible with future expansion of the parking lot, if necessary.

When exiting the parking lot driveway at peak times, vehicles will continue out the parking lot driveway in a single lane through two turns. One-way flow at the drive minimizes conflicts at the driveway throat and allows for ample queue storage when exiting the site.

The throat lengths for the bus loop are relatively short, but the loop will only be used for bus pick-up and drop-off. A few parking spaces are also accessed from the bus loop. Traffic in the bus loop will flow oneway in a counter-clockwise direction. The school district expects three to five buses to serve the school, and the bus loop is designed to contain six buses.

## Crash Analysis

Crash records were obtained from the Kansas Department of Transportation (KDOT) for the study area for the time period between August Ist, 2015 and April 30, 2020. Over this 56 month period, four crashes occurred along K-32 Highway in the general vicinity of the Stillwell Road intersection. Of the four crashes, two were collisions with animals. Two other crashes were reported approximately 2,000 feet south of the intersection; one involved a vehicle hitting a fixed object, and one crash involved two eastbound vehicles in a rear end collision. Based on this data, none of the crashes were intersection related. The rear end crash was likely at a driveway location some distance from the intersection.

One crash was also reported in the vicinity of the 182nd Street and Stillwell Road intersection. The crash involved a single vehicle striking a fence 260 feet east of the intersection. This crash occurred within a horizontal curve on Stillwell Road, and was not likely related to the intersection. The warning signs previously identified for this area will enhance awareness of the horizontal curves and provide drivers with the information they need to safely navigate the roadway.

## Traffic Operation Assessment

An assessment of traffic operations was made for the scenarios listed below. These scenarios allowed for comparison of the before and after impacts of the proposed development on the street network.

- Existing Conditions
- Existing plus Development Conditions
- Future (Year 2040) Conditions

The study intersections were evaluated using the Synchro traffic analysis software package. Calculations were performed based on the methodologies outlined in the Highway Capacity Manual (HCM), 6th Edition, which is published by the Transportation Research Board. The operating conditions at an intersection are graded by the "level of service" experienced by drivers. Level of service (LOS) describes the quality of traffic operating conditions and is rated from " $A$ " to " $F$ ". LOS A represents the least congested condition with free-flow movement of traffic and minimal delays. LOS F generally indicates severely congested conditions with excessive delays to motorists. Intermediate grades of B, C, D, and E reflect incremental increases in the average delay per stopped vehicle. Control delay is measured in seconds per vehicle. Table 5 shows the upper limit of delay associated with each level of service for signalized and unsignalized intersections.

| Table 5 <br> Intersection Level of Service Delay Thresholds |  |  |
| :---: | :---: | :---: |
| Level of Service <br> (LOS) | Signalized | Unsignalized |
| A | $\leq 10$ Seconds | $\leq 10$ Seconds |
| B | $\leq 20$ Seconds | $\leq 15$ Seconds |
| C | $\leq 35$ Seconds | $\leq 25$ Seconds |
| D | $\leq 55$ Seconds | $\leq 35$ Seconds |
| E | $\leq 80$ Seconds | $\leq 50$ Seconds |
| F | $>80$ Seconds | $>50$ Seconds |

While LOS measurements apply to both signalized and unsignalized intersections, there are significant differences between how these intersections operate and how they are evaluated. LOS for signalized intersections reflects the operation of the intersection as a whole.

Unsignalized intersections, in contrast, are evaluated based on the movement groupings which are required to yield to other traffic. Typically, these are the left turns off of the major street and the sidestreet approaches for two-way stop-controlled intersections. At unsignalized intersections lower LOS ratings ( $\mathrm{D}, \mathrm{E}$ and F ) do not, in themselves, indicate the need for additional improvements. Many times there are convenient alternative routes to avoid the longer delays. Other times the volumes on the unsignalized approaches are relatively minor when compared to the major street traffic, and improvements such as traffic signal installation may increase the average delay to all users of the intersection.

The LOS rating deemed acceptable varies by community, facility type and traffic control device. Most communities in the region have identified LOS D as the minimum desirable goal for signalized intersections. However, at unsignalized intersections LOS D, E, or even F are often considered acceptable for low to moderate traffic volumes where the installation of a traffic signal is not warranted by the conditions at the intersection, or the location has been deemed undesirable for signalization.

Traffic queues were also evaluated as part of the analyses. Long traffic queues which extend beyond the amount of storage available, either between intersections or within turn lanes, can have significant impacts
on operations. The projected vehicular queues were analyzed to ensure the analyses are reflective of the physical constraints of the study intersections and to identify if additional storage is needed for turn lanes.

## Existing Conditions

The results of the Existing Conditions intersection analyses are summarized in Table 6. The study intersections were evaluated with the lane configurations, traffic volumes, and traffic control devices shown on Figure A-3. The Synchro output files are included in Appendix C.

| Table 6 Intersection Operational Analysis Existing Conditions |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Intersection Movement | A.M. Peak Hour |  | P.M. Peak Hour |  |
|  | LOS ${ }^{1}$ | Delay ${ }^{2}$ | LOS ${ }^{1}$ | Delay ${ }^{2}$ |
| K-32 Highway and Stillwell Road |  |  |  |  |
| Northbound Left-Turn | A | 0.0 | A | 7.5 |
| Southbound Left-Turn | A | 0.0 | A | 0.0 |
| Eastbound | B | 10.6 | B | 10.5 |
| Westbound | B | 11.2 | B | 10.5 |
| 182nd Street and Stillwell Road |  |  |  |  |
| Northbound | A | 9.1 | A | 9.2 |
| Southbound | A | 9.0 | A | 8.7 |
| Eastbound Left-Turn | A | 0.0 | A | 0.0 |
| Westbound Left-Turn | A | 0.0 | A | 7.2 |
| I - Level of Service <br> 2 - Delay in seconds per vehicle |  |  |  |  |

The results of the analysis indicate that all movements at the study intersections currently operate at acceptable levels of service during the peak hours. Existing queue lengths are no more than one vehicle for all movements.

## Existing plus Development Conditions

The results of the Existing plus Development Conditions intersection analyses are summarized on the next page in Table 7. This scenario evaluates the addition of traffic from the proposed elementary school. The study intersections were evaluated with the lane configurations, traffic volumes, and traffic control devices shown on Figures A-4 through A-6. The Synchro output files are included in Appendix C.

For this scenario, a peak hour factor of 0.50 was used for the movements that include development trips to simulate the high peak of traffic arriving/departing around the beginning and end of school times. This factor results in a conservative analysis of the study intersections. A heavy vehicle factor of seven percent was used to account for bus trips, which was applied to the movements that include development trips. All turn lane improvements previously identified are reflected in the analysis results in the table.

As shown in Table 7, all movements at the study intersections and driveways are projected to operate at acceptable levels of service during both peak hours with the aforementioned turn lane improvements at the K-32 and Stillwell Road intersection.

| Table 7 <br> Intersection Operational Analysis Existing plus Development Conditions |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Intersection <br> Movement | A.M. Peak Hour |  | P.M. Peak Hour |  |
|  | LOS ${ }^{1}$ | Delay ${ }^{2}$ | LOS ${ }^{1}$ | Delay ${ }^{2}$ |
| K-32 Highway and Stillwell Road |  |  |  |  |
| Northbound Left-Turn | A | 7.6 | A | 7.6 |
| Southbound Left-Turn | A | 0.0 | A | 0.0 |
| Eastbound | $C$ | 19.1 | B | 12.5 |
| Westbound | C | 14.5 | B | 11.7 |
| 178th Street and Stillwell Road |  |  |  |  |
| Eastbound Left-Turn | A | 7.9 | A | 7.5 |
| Southbound | B | 11.8 | B | 10.1 |
| 182nd Street and Stillwell Road |  |  |  |  |
| Northbound | A | 8.7 | A | 9.1 |
| Southbound | A | 9.1 | A | 8.9 |
| Eastbound Left-Turn | A | 0.0 | A | 0.0 |
| Westbound Left-Turn | A | 7.3 | A | 7.2 |
| 178th Street and Parking Lot Drive |  |  |  |  |
| Southbound Left-Turn | A | 0.0 | A | 0.0 |
| Westbound | B | 11.4 | A | 9.5 |
| 178th Street and Bus Drive (inbound) |  |  |  |  |
| Southbound Left-Turn | A | 0.0 | A | 0.0 |
| I78th Street and Bus Drive (outbound) |  |  |  |  |
| Southbound Left-Turn | A | 0.0 | A | 0.0 |
| Westbound | A | 0.0 | A | 0.0 |
| I - Level of Service <br> 2 - Delay in seconds per vehicle |  |  |  |  |

All queue lengths are projected to be minimal, with the longest queues occurring during the A.M. peak hour. There are several locations where queue lengths are of particular importance. The 95th percentile queue length for the eastbound lane at Stillwell Road and K-32 Highway is projected to be 81 feet (2.7 vehicles) during the A.M. peak hour. The southbound queue at I78th Street and Stillwell Road is projected to be 42 feet during the A.M. peak hour, which will not block the adjacent school parking lot driveway. The westbound queue exiting the school's parking lot drive to 178 th Street is 42 feet, which is contained within the throat of the driveway. Each of these same movements has a shorter queue length during the P.M. peak hour.

Given that the queue lengths are projected to be relatively short and the study intersections are projected to operate acceptably, the spacing of the 178th Street intersection from K-32 Highway should not be an operational or safety concern.

## Future (Year 2040) Conditions

There are several factors that will influence future traffic growth at the study intersections. One factor is background traffic growth on K-32 Highway. Historical traffic counts from KDOT indicate that the volume on K-32 has fluctuated. In the past five years traffic has been steadily increasing, but current volumes are
lower than they were ten years ago. For this study a growth rate of one-percent per year was used to estimate background traffic growth on K-32.

Development in the surrounding area will also impact future traffic growth. There is potential for 178th Street to be extended north of the school in the future. County staff assumes that up to 49 large lot single-family residences could be constructed along 178th Street. Development may also occur along Stillwell Road. The County's future land use map was used to determine possible land uses and intensities for development. Areas east and west of K- 32 Highway are assumed to develop with single-family homes with lots that are a minimum of 2.5 to 5 acres. This methodology results in an extremely conservative analysis, as it assumes full build out of the area at the minimum lot size.

Trip Generation estimates were prepared for potential future development that could occur in the surrounding area. These estimates were prepared using the Institute of Transportation Engineer's Trip Generation Manual, IOth Edition, and are shown in Table 8.

| Table 8 <br> Potential Future Trip Generation |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Land Use | Intensity | ITE Code | Average Weekday | A.M. Peak Hour |  |  | P.M. Peak Hour |  |  |
|  |  |  |  | Total | In | Out | Total | In | Out |
| Single-Family Detached Housing (North on 178th St) | 49 homes | 210 | 540 | 40 | 10 | 30 | 52 | 33 | 19 |
| Single-Family Detached Housing (East on Stillwell Rd) | 80 homes | 210 | 847 | 62 | 16 | 46 | 83 | 53 | 30 |
| Single-Family Detached Housing (West on Stillwell Rd) | 125 homes | 210 | 1,088 | 80 | 20 | 60 | 107 | 68 | 39 |

The future development trips for the potential single-family homes in Table 8 were assigned to the street network using generally the same distributions as shown in Table 2. Consideration was also given to alternate routes these drivers may select, which may not travel through one of the study intersections.

The results of the Future Year 2040 Conditions intersection analyses are summarized in Table 9. The study intersections were evaluated with the lane configurations, traffic volumes, and traffic control devices shown on Figures A-7 through A-9. The Synchro output files are included in Appendix C.

| Table 9 <br> Intersection Operational Analysis Future Year 2040 Conditions |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Intersection Movement | A.M. Peak Hour |  | P.M. Peak Hour |  |
|  | LOS ${ }^{1}$ | Delay ${ }^{2}$ | LOS ${ }^{1}$ | Delay ${ }^{2}$ |
| K-32 Highway and Stillwell Road |  |  |  |  |
| Northbound Left-Turn | A | 7.7 | A | 8.2 |
| Southbound Left-Turn | A | 7.8 | A | 7.6 |
| Eastbound | F | 72.9 | c | 17.4 |
| Westbound | C | 18.1 | C | 22.0 |


| Table 9 - Continued <br> Intersection Operational Analysis Future Year 2040 Conditions |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Intersection Movement | A.M. Peak Hour |  | P.M. Peak Hour |  |
|  | LOS ${ }^{1}$ | Delay ${ }^{2}$ | LOS ${ }^{1}$ | Delay ${ }^{2}$ |
| 178th Street and Stillwell Road |  |  |  |  |
| Eastbound Left-Turn | A | 8.1 | A | 8.2 |
| Southbound | C | 19.2 | B | 17.0 |
| 182nd Street and Stillwell Road |  |  |  |  |
| Northbound | A | 9.9 | B | 10.9 |
| Southbound | B | 11.5 | B | 12.5 |
| Eastbound Left-Turn | A | 0.0 | A | 0.0 |
| Westbound Left-Turn | A | 7.6 | A | 7.5 |
| 178th Street and Parking Lot Drive |  |  |  |  |
| Southbound Left-Turn | A | 7.9 | A | 7.5 |
| Westbound | B | 12.7 | B | 10.5 |
| 178th Street and Bus Drive (inbound) |  |  |  |  |
| Southbound Left-Turn | A | 0.0 | A | 0.0 |
| Westbound | A | 0.0 | A | 0.0 |
| I78th Street and Bus Drive (outbound) |  |  |  |  |
| Southbound Left-Turn | A | 0.0 | A | 0.0 |
| Westbound | A | 9.7 | B | 10.3 |
| I - Level of Service <br> 2 - Delay in seconds per vehicle |  |  |  |  |

The results in the table indicate that all movements at the study intersections are projected to operate at acceptable levels of service during both peak hours with one exception. The eastbound Stillwell Road approach to the K-32 Highway intersection is projected to operate at LOS F during the A.M. peak hour with lengthy queues. The addition of an eastbound left-turn lane would improve operations in the future. A separate eastbound left-turn lane would operate at LOS E with 41.1 seconds of delay, and a 95 th percentile queue length of 165 feet. The other eastbound lane would operate at LOS B with queues of one vehicle or less.

While LOS E conditions are generally undesirable, it should be noted that this is a very conservative analysis scenario, assuming full build out of the area at the minimum lot size. County staff should monitor development along the Stillwell Road corridor west of K-32 Highway. If this level of development does not occur, then operating conditions will be better than what is projected in this scenario. If significant development does occur in this area, other forms of traffic control may be necessary to achieve an acceptable LOS at the K-32 Highway and Stillwell Road intersection in the future.

Queue lengths at several other intersections are projected to increase slightly in the future conditions scenario. The southbound queue at 178 th Street and Stillwell Road is projected to be 102 feet during the A.M. peak hour. This queue will extend to the adjacent school parking lot driveway, but will not block it. The westbound queue exiting the school's parking lot drive to 178th Street is 48 feet, which is contained within the throat of the driveway. Each of the movements previously mentioned has a shorter queue length during the P.M. peak hour.

## Summary

TranSystems has completed a traffic impact study for the proposed Basehor-Linwood elementary school to be located generally in the northwest corner of K-32 and Stillwell Road near Linwood, Kansas in rural Leavenworth County. The purpose of this study was to assess the impact of the proposed development on the surrounding transportation system.

According to the KDOT Access Management Policy, a northbound left-turn lane and a southbound rightturn lane will be warranted on K-32 Highway at Stillwell Road to accommodate development traffic from the proposed elementary school. The northbound left-turn lane should have a minimum storage length of 650 feet with a 240 -foot straight line bay taper and an appropriate through lane taper. The southbound right-turn lane should have a minimum storage length of 555 feet with a 240 -foot straight line bay taper.

Several other modifications are to be included at the intersection of K-32-Highway and Stillwell Road to enhance safety at the intersection. The Stillwell Road approaches are to be realigned to achieve a 75degree angle of intersection. The southbound right-turn lane is also to be offset from the through lane to allow for better sight lines looking to the north from the stop controlled eastbound approach. With these modifications, all sight lines will be adequate for passenger cars and buses.

Sight distances were found to be less than the recommended distances along Stillwell Road at the I82nd Street intersection. Clearing the foliage within the right-of-way is recommended along the south side of Stillwell Road west of I82nd Street and in the northeast quadrant of the intersection. Warning signs should be installed on Stillwell Road in advance of the 182nd Street intersection and the horizontal curves. The warning signs will enhance awareness of the horizontal curves and provide drivers with the information they need to safely navigate the roadway.

The study intersections currently operate at acceptable levels of service during both peak hours with minimal queues. The study intersections are projected to continue operating at acceptable levels of service with the addition of the proposed elementary school traffic. Therefore, no additional improvements are identified to mitigate the addition of development traffic.

In the future, there may be a need for an eastbound left-turn lane at the K-32 Highway and Stillwell Road intersection. County staff should monitor development along the Stillwell Road corridor west of K-32 Highway. If significant development occurs in this area, other forms of traffic control may be necessary to achieve an acceptable LOS at the K-32 Highway and Stillwell Road intersection.

## Appendix A - Figures

Figure A-I Location Map
Figure A-2 Proposed Development Site Plan
Figure A-3 Existing Conditions Lane Configurations and Peak Hour Traffic Volumes
Figure A-4 Existing Plus Development Conditions Lane Configurations
Figure A-5 Existing Plus Development Conditions A.M. Peak Hour Traffic Volumes
Figure A-6 Existing Plus Development Conditions P.M. Peak Hour Traffic Volumes
Figure A-7 Future (Year 2040) Conditions Lane Configurations
Figure A-8 Future (Year 2040) Conditions A.M. Peak Hour Traffic Volumes
Figure A-9 Future (Year 2040) Conditions P.M. Peak Hour Traffic Volumes
Figure A-IO Intersection Influence Area




## Legend

- Traffic Signal
- Stop Sign
$\frac{1}{1}$ - Lane Configuration








## Appendix B - Traffic Volume Data and Trip Generation/Distribution

See attached worksheets.

| Proposed Development | Intensity | $\begin{gathered} \text { ITE } \\ \text { Code } \end{gathered}$ | Daily | A.M. Peak Hour |  |  |  |  | P.M. Peak Hour |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Land Use |  |  |  | Total | \% In | \% Out | In | Out | Total | \% In | \% Out | In | Out |
| Elementary School | 432 students | 520 | 737 | 281 | 54\% | 46\% | 152 | 129 | 147 | 45\% | 55\% | 67 | 80 |
| Future Development |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single Family Housing (North on 178th) | 49 units | 210 | 540 | 40 | 25\% | 75\% | 10 | 30 | 52 | 63\% | 37\% | 33 | 19 |
| Single Family Housing (East on Stillwell Road) | 80 units | 210 | 847 | 62 | 25\% | 75\% | 16 | 46 | 83 | 63\% | 37\% | 53 | 30 |
| Single Family Housing (West on Stillwell Road) | 105 units | 210 | 1,088 | 80 | 25\% | 75\% | 20 | 60 | 107 | 63\% | 37\% | 68 | 39 |

Trip generation estimates based on IOth edition


* Also known as Zone A or Zone AE, which are FEMA-defined Special Flood Hazard Areas
** Residential (2.5-Acre Minimum) is the designated future land use within a quarter-mile of each side of the centerline of all improved roads within Leavenworth County, unless the quarter-mile area on either side of the centerline of an improved road is designated as a denser future land use, such as Residential (3 Units / Acre), Mixed Residential, or Mixed Use. "Improved" roads refer to all paved roads within Leavenworth County, not including those roads that have been hard-surfaced through the dust-abatement process. Due to sporadic data inaccuracy, Figure 4.1 Future Land Use Plan may show this quarter-mile Residential (2.5-Acre Minimum) buffer along roads that are not improved. In such cases, the Residential (2.5-Acre Minimum) quarter-mile buffer does not apply to either side of the unimproved road's centerline.

| K-32 Historical Traffic Volumes |  |  |  |  |
| :--- | ---: | ---: | :--- | ---: |
| Year | ADT |  | Heavy Vehicle |  |
| 2019 | 3550 | 245 |  |  |
| 2018 | 3540 | 235 | 5 year annual growth (2014-2019) | $2.8 \%$ |
| 2017 | 3580 | 225 | 10 year annual growth (2008-2019) | $-0.6 \%$ |
| 2016 | 3470 | 220 | average | $1.1 \%$ |
| 2015 | 3220 | 215 |  |  |
| 2014 | 3180 | 210 |  |  |
| 2013 | 3640 | 205 |  |  |
| 2012 | 3600 | 200 |  |  |
| 2011 | 4140 | 245 |  |  |
| 2010 | 4060 | 250 |  |  |
| 2009 | 3780 | 365 |  |  |
| 2008 | 3750 | 370 |  |  |

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Stillwell Road and K-32


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Basehor-Linwood Elementary School TIS
Existing plus Development Traffic Volumes
A.M. Peak Hour


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# Basehor－Linwood Elementary School TIS <br> Linwood，Kansas 

Future Northern Development Traffic Volumes
P．M．Peak Hour

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# Basehor-Linwood Elementary School TIS 

Future Eastern Development Traffic Volumes
A.M. Peak Hour
Stillwell Road and 178th Street


# Basehor-Linwood Elementary School TIS 

Future Eastern Development Traffic Volumes
P.M. Peak Hour
Stillwell Road and 178th Street

Basehor-Linwood Elementary School TIS
Linwood, Kansas
Future Eastern Development Outbound
A.M. Peak Hour
Stillwell Road and 178th Street

Stillwell Road and 182nd Street


Basehor-Linwood Elementary School TIS

Future Eastern Development Outbound
Stillwell Road and 178th Street


Stillwell Road and 182nd Street


## Basehor-Linwood Elementary School TIS

Future Western Development Traffic Volumes
A.M. Peak Hour
Stillwell Road and K-32


Stillwell Road and 182nd Street


# Basehor-Linwood Elementary School TIS 

Future Western Development Traffic Volumes
P.M. Peak Hour
Stillwell Road and K-32




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Basehor-Linwood Elementary School TIS
Future Western Development Outbound
A.M. Peak Hour

Future Western Development Outbound
P.M. Peak Hour P.M. Peak Hour
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Stillwell Road and K-32


Linwood, Kansas
Total Future Development Traffic Volumes
A.M. Peak Hour
Basehor-Linwood Elementary School TIS
Linwood, Kansas

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~ $\ddagger$ \&
Stillwell Road and 182nd Street




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Future Growth Traffic Volumes
A.M. Peak Hour
Stillwell Road and 178th Street
Stillwell Road and K-32


Future Growth Traffic Volumes
P.M. Peak Hour
Stillwell Road and 178th Street
Stillwell Road and K-32


Stillwell Road and 182nd Street


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## Appendix C - Peak Hour Capacity Analysis Reports

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| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |


| Major/Minor | Major1 | Major2 |  | Minor2 |  |  |
| :--- | ---: | :--- | ---: | :--- | ---: | ---: |
| Conflicting Flow All | 296 | 0 | - | 0 | 188 | 152 |
| $\quad$ Stage 1 | - | - | - | - | 152 | - |
| Stage 2 | - | - | - | - | 36 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.47 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.47 | - |
| Critical Hdwy Stg 2 | - | - | - | -5.47 | - |  |
| Follow-up Hdwy | 2.218 | - | - | -3.563 | 3.318 |  |
| Pot Cap-1 Maneuver | 1265 | - | - | - | 790 | 894 |
| $\quad$ Stage 1 | - | - | - | - | 864 | - |
| $\quad$ Stage 2 | - | - | - | - | 974 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1265 | - | - | - | 780 | 894 |
| Mov Cap-2 Maneuver | - | - | - | - | 780 | - |
| Stage 1 | - | - | - | - | 853 | - |
| Stage 2 | - | - | - | - | 974 | - |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 6.3 | 0 | 11.8 |
| HCM LOS |  |  | B |


| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |
| :--- | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1265 | - | - | -785 |
| HCM Lane V/C Ratio | 0.013 | - | - | -0.329 |
| HCM Control Delay (s) | 7.9 | 0 | - | -11.8 |
| HCM Lane LOS | A | A | - | - |
| HCM 95th \%tile Q(veh) | 0 | - | - | - |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |





| Intersection |  |  |  |  |  |  |
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| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 4.3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |  |
| Lane Configurations |  | \$ |  |  | $\uparrow$ |  |  | \$ |  |  | \$ |  |  |
| Traffic Vol, veh/h | 0 | 2 | 0 | 2 | 4 | 2 | 0 | 4 | 1 | 2 | 0 | 0 |  |
| Future Vol, veh/h | 0 | 2 | 0 | 2 | 4 | 2 | 0 | 4 | 1 | 2 | 0 | 0 |  |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Sign Control F | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |  |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |  |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Veh in Median Storage, \# | \# | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Peak Hour Factor | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 33 | 25 | 25 | 25 | 25 |  |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |
| Mumt Flow | 0 | 8 | 0 | 8 | 16 | 8 | 0 | 12 | 4 | 8 | 0 | 0 |  |



| Intersection |  |  |  |  |  |  |
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| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |



| Intersection |  |  |  |  |  |  |
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| Intersection |  |  |  |  |  |  |
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| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 7 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | F |  | M |  |
| Traffic Vol, veh/h | 10 | 46 | 17 | 152 | 145 | 14 |
| Future Vol, veh/h | 10 | 46 | 17 | 152 | 145 | 14 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 50 | 25 | 25 | 50 | 50 | 50 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 7 | 7 | 2 |
| Mvmt Flow | 20 | 184 | 68 | 304 | 290 | 28 |


| Major/Minor | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 372 | 0 | - | 0 | 444 | 220 |
| Stage 1 | - | - | - | - | 220 | - |
| Stage 2 | - | - | - | - | 224 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.47 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.47 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.47 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.563 | 3.318 |
| Pot Cap-1 Maneuver | 1186 | - | - | - | 562 | 820 |
| Stage 1 | - | - | - | - | 805 | - |
| Stage 2 | - | - | - | - | 802 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1186 | - | - | - | 551 | 820 |
| Mov Cap-2 Maneuver | - | - | - | - | 551 | - |
| Stage 1 | - | - | - | - | 790 | - |
| Stage 2 | - | - | - | - | 802 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.8 |  | 0 |  | 19.2 |  |
| HCM LOS |  |  |  |  | C |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1186 | - | - | - | 567 |
| HCM Lane V/C Ratio |  | 0.017 | - | - | - | 0.561 |
| HCM Control Delay (s) |  | 8.1 | 0 | - | - | 19.2 |
| HCM Lane LOS |  | A | A | - | - | C |
| HCM 95th \%tile Q(veh) |  | 0.1 | - | - | - | 3.4 |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 5.1 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | M |  | 6 |  |  | $\uparrow$ |
| Traffic Vol, veh/h | 124 | 5 | 15 | 147 | 5 | 35 |
| Future Vol, veh/h | 124 | 5 | 15 | 147 | 5 | 35 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 50 | 50 | 50 | 50 | 92 | 50 |
| Heavy Vehicles, \% | 7 | 2 | 7 | 7 | 2 | 7 |
| Mvmt Flow | 248 | 10 | 30 | 294 | 5 | 70 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Mr |  | $\uparrow$ |  |  | $\uparrow$ |
| Traffic Vol, veh/h | 0 | 0 | 15 | 5 | 0 | 39 |
| Future Vol, veh/h | 0 | 0 | 15 | 5 | 0 | 39 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 50 | 92 | 50 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 100 | 2 | 100 |
| Mvmt Flow | 0 | 0 | 16 | 10 | 0 | 78 |


| Major/Minor | Minor1 |  | Major1 |  | Major2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 99 | 21 | 0 | 0 | 26 | 0 |
| Stage 1 | 21 | - | - | - | - | - |
| Stage 2 | 78 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 900 | 1056 | - | - | 1588 | - |
| Stage 1 | 1002 | - | - | - | - | - |
| Stage 2 | 945 | - | - | - | - | - |
| Platoon blocked, \% |  |  | - | - |  | - |
| Mov Cap-1 Maneuver | 900 | 1056 | - | - | 1588 | - |
| Mov Cap-2 Maneuver | 900 | - | - | - | - | - |
| Stage 1 | 1002 | - | - | - | - | - |
| Stage 2 | 945 | - | - | - | - | - |
|  |  |  |  |  |  |  |
| Approach | WB |  | NB |  | SB |  |
| HCM Control Delay, s | 0 |  | 0 |  | 0 |  |
| HCM LOS | A |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBT | NBRWBLn1 |  | SBL | SBT |
| Capacity (veh/h) |  | - | - | - | 1588 | - |
| HCM Lane V/C Ratio |  | - | - | - | - | - |
| HCM Control Delay (s) |  | - | - | 0 | 0 | - |
| HCM Lane LOS |  | - | - | A | A | - |
| HCM 95th \%tile Q(veh) |  | - | - | - | 0 | - |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.5 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Mi |  | $\uparrow$ |  |  | $\uparrow$ |
| Traffic Vol, veh/h | 5 | 0 | 15 | 0 | 0 | 35 |
| Future Vol, veh/h | 5 | 0 | 15 | 0 | 0 | 35 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 50 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 100 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 10 | 0 | 16 | 0 | 0 | 38 |







| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |


| Major/Minor | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 396 | 0 | - | 0 | 528 | 308 |
| Stage 1 | - | - | - |  | 308 | - |
| Stage 2 | - | - | - | - | 220 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.47 | 6.27 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.47 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.47 | - |
| Follow-up Hdwy | 2.218 | - | - |  | 3.563 | 3.363 |
| Pot Cap-1 Maneuver | 1163 | - | - | - | 502 | 720 |
| Stage 1 | - | - | - |  | 734 | - |
| Stage 2 | - | - | - | - | 805 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1163 | - | - | - | 480 | 720 |
| Mov Cap-2 Maneuver | - | - | - | - | 480 | - |
| Stage 1 | - | - | - |  | 702 | - |
| Stage 2 | - | - | - | - | 805 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 2.3 |  | 0 |  | 17 |  |
| HCM LOS |  |  |  |  | C |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT | WBR SBLn1 |  |
| Capacity (veh/h) |  | 1163 | - | - | - | 495 |
| HCM Lane V/C Ratio |  | 0.041 | - | - | - | 0.4 |
| HCM Control Delay (s) |  | 8.2 | 0 | - | - | 17 |
| HCM Lane LOS |  | A | A | - | - | C |
| HCM 95th \%tile Q(veh) |  | 0.1 | - | - | - | 1.9 |




| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Mr |  | $\uparrow$ |  |  | -1 |
| Traffic Vol, veh/h | 0 | 0 | 38 | 5 | 0 | 29 |
| Future Vol, veh/h | 0 | 0 | 38 | 5 | 0 | 29 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 50 | 50 | 50 | 50 | 50 | 50 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 100 | 2 | 100 |
| Mvmt Flow | 0 | 0 | 76 | 10 | 0 | 58 |


| Major/Minor M | Minor1 |  | Major1 |  | Major2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 139 | 81 | 0 | 0 | 86 | 0 |
| Stage 1 | 81 | - | - | - | - | - |
| Stage 2 | 58 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 |  | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 854 | 979 | - | - | 1510 | - |
| Stage 1 | 942 | - | - | - | - | - |
| Stage 2 | 965 | - | - | - | - | - |
| Platoon blocked, \% |  |  | - | - |  | - |
| Mov Cap-1 Maneuver | 854 | 979 | - | - | 1510 | - |
| Mov Cap-2 Maneuver | 854 | - | - | - | - | - |
| Stage 1 | 942 | - | - | - | - | - |
| Stage 2 | 965 | - | - | - | - | - |
|  |  |  |  |  |  |  |
| Approach | WB |  | NB |  | SB |  |
| HCM Control Delay, s | 0 |  | 0 |  | 0 |  |
| HCM LOS | A |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NB | NBRWBLn1 |  | SBL | SBT |
| Capacity (veh/h) |  | - | - | - | 1510 | - |
| HCM Lane V/C Ratio |  | - | - | - | - | - |
| HCM Control Delay (s) |  | - | - | 0 | 0 | - |
| HCM Lane LOS |  | - | - | A | A | - |
| HCM 95th \%tile Q(veh) |  | - | - | - | 0 | - |




## Appendix D - Conceptual Geometrics and Sight Lines

See attached illustrations.





























## BASEHOR-LINWOOD USD 458: LINWOOD ELEMENTARY SCHOOL












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LEGEND:
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PLat corners Controuling corners of subodusion

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SURVEYORS NOTES:




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6.


BENCH MARK












NEAVENWORTH COUNT, KANSAS






ZONING: RR 2.5 EExisting and proposed)
UTLITY CONTACTS:



$\underset{\substack{\text { Waian Leavenworth Rwor } \\ 91341-1-1205}}{ }$

EXECUTION:

us. D .4458

## By: David Howara, Superine

ACKNom Ledoment:
state of kansas
countr of Leavenvorth (ss


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APPROVALS:



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REGIITER OF DEED CERTIFICATE:
 Regiserof Doeas, Stayr. Disisooll

Leavenvort County surveor, Wayne Manioof P.L.S.



[^0]:    $\mathrm{C}: \backslash$ Users $\backslash$ rmatzeder $\backslash$ AppData $\backslash$ Local $\backslash$ Microsoft $\backslash$ Windows $\backslash$ INetCache $\backslash$ Content.Outlook $\backslash 9$ AHM73TV $\backslash$ RBA for appointment of deputy coroner.docx

[^1]:    See attached reports.

