City of Pittsburg

WEST QUINCY AND COUNTRYSIDE ADDITION STREET IMPROVEMENTS 2018 Street Improvements Program

> West Quincy Street, Canterbury Road, Village Drive, Heritage Lane, Windsor Circle, Windsor Court, Villa Drive, Victorian Drive, Heritage Road, Countryside Drive, Cambridge Lane, Colonial Drive, Windsor Drive,

Countryside Addition Street Improvements West Quincy Street Improvements

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5.	Countryside Addition Mill and Overlay Plan
6.	Concrete Valley Gutters Plan
7.	Concrete Water Valve Blockouts
814.	General Traffic Control



PUBLIC OFFICIALS

Jeremy Johnson PRESIDENT OF THE BOARD Patrick O'Bryan CITY COUNSEL MEMBERS Sarah Chenoweth Dawn McNay Chuck Munsell

CITY MANAGER Daron Hall Tammy Nagel CITY ATTORNEY Henry Menghini DIRECTOR OF PUBLIC WORKS Cameron Alden

GENERAL NOTES

- 1. All adjacent buildings, structures, parking lots, drives, street pavements, utility lines, utility structures and appurtenances other than shown for replacement, shall be protected from damage during construction of the project. Items damaged beyond the limits shown on the drawings shall be removed and replaced by the contractor at no additional expense to the owner.
- 2. The contractor shall promptly, and before such conditions are disturbed, notify the engineer if conditions on the site differ from those shown on the plans.
- 3. The contractor will be required to provide a minimum of seventy-two (72) hours advanced notice to each of the utility owners listed in the table at right prior to the beginning of construction and request that any existing lines be located and flagged. Any utility damaged by the contractor or their subcontractors shall be repaired or replaced at no cost to the owner. The contractor shall coordinate work with contractors or utility companies and other agencies to minimize inconvenience to the public. Kansas One-Call: (800) 344-7233 OR 811

EMERGENCY (POLICE, FIRE, AMBULANCE): 911

- 4. Full depth saw cuts of existing pavement shall be provided at locations where proposed construction abuts an existing pavement for which partial removal of that pavement is required. Sawed joints to facilitate removal within three (3) feet of existing joints will not be permitted and for such instances the limits of removal shall extend to the existing joint. Such saw cuts will not be paid for directly, but will be considered subsidiary.
- 5. All dowel bars shall be epoxy coated for use within type III concrete.
- 6. All disposal sites shall be approved of by The City of Pittsburg and Kansas Dept. of Health and Environment. Material either stockpiled or disposed of within a flood plain will require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps of Engineers permitting regulations.
- 7. The contractor shall comply with all applicable safety regulations. Insuring the safety of the public shall be the contractor's responsibility. Any workers present within street right of ways of the City of Pittsburg will be required to wear a safety vest meeting ANSI Class II requirements.
- 8. The contractor shall obtain all necessary permits.

UTILITY TYPE	COMPANY NAME	ADDRESS	CITY AND STATE	PHONE NUMBER
Water, Sewer, Communications	City of Pittsburg	303 Memorial Drive	Pittsburg, KS	(620) 240-5126
Gas	Kansas Gas Service	3008 N. Joplin Street	Pittsburg, KS	(620) 230-8113
Electric	Westar Energy	1909 S. Olive Street	Pittsburg, KS	(620) 235-2516
Telephone	AT&T	23 W. First Street	Ft. Scott, KS	(620) 223-9942
Communications	Cox Communications	2802 N. Joplin Street	Pittsburg, KS	(620) 231-3360
Communications	Craw-Kan Telephone	200 N. Ozark Street	Girard, KS	(620) 724-8235
Communications	Optic Communications	224 S. Kansas Avenue	Columbus, KS	(620) 429-3132

8" CONCRETE STREET APPROACH	Length	Width	Depth	Area	Volume
Location	(Ft)	(Ft) (AVG)	(Ft)	(SYDS)	(CuYds)
Quincy Street at Oak Street	9	28	0.667	28	6.2

SUMMARY OF CONCRETE QUANTITIES- WATER VALVE BLOCKOUTS (Qu	incy Street Only)
	Quantity
Street or Intersection	Each
Quincy and Crestwood Lane	1
Quincy and Elmwood Drive	3
Quincy and Woodland Terrace	2
Quincy and Catalpa Street	2
Quincy and Walnut Street	1
Quincy and Pine Street	1
TOTAL	10

See Sheet 7 For Additional Details

	SUMMARY OF CON	ICRETE QUANTITIES- 8" VALLEY GUTTERS			
Street or Intersection	Length	Width	Depth	Area	Volume **
Street of Intersection	(Ft)	(Ft)	Depth (Ft)	(SqYds)	(CuYds)
Cantebury Road and Cambridge Lane	42	10	0.667	46.7	10.4
Cantebury Road and Colonial Drive	52	10	0.667	57.8	12.8
Colonial Drive and Village Drive	50	10	0.667	55.6	12.4

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		SUI	MMARY	OF ASPH	IALT QUA	NTITIES	FOR COUNTRYSID	E ADDITION		
							** HMA Commercial	*Aggregate for Bituminous	*Asphalt Cement	*Emulsified Asphalt
			Length	Width	Mill	ing	Grade Class A	Surface Course	(PG 64-22)	(SS-1H or CSS-1H) (Tack)
Street or Intersection	From	То	(Feet)	(Avg) (Ft)	Depth (Ft)	(SqYds)	(Tons)	(Tons)	(Tons)	(Gallons)
Cantebury Road	Fourth Street	Village Drive	3121	26	0.167	9016.2	982.5	928.4	54.0	450.8
Village Drive	Cantebury Road	Colonial Drive	1250	26	0.167	3611.1	393.5	371.9	21.6	180.6
Intersection	Village Drive	Colonial Drive	73	44	0.167	356.9	38.9	36.8	2.1	17.8
Village Drive	Colonial Drive	Countryside Drive	486	26	0.167	1404.0	153.0	144.6	8.4	70.2
Colonial Drive	Cantebury Road	Village Drive	887	26	0.167	2562.4	279.2	263.9	15.4	128.1
Cambridge Lane	Cantebury Road	Village Drive	766	26	0.167	2212.9	241.1	227.9	13.3	11 0.6
Countryside Drive	Cantebury Road	Village Drive	610	26	0.167	1762.2	192.0	181.5	10.6	88.1
Heritage Road	Cantebury Road	Village Drive	619	26	0.167	1788.2	194.9	184.1	10.7	89.4
Heritage Lane	Heritage Road	Cantebury Road	637	26	0.167	1840.2	200.5	189.5	11.0	92.0
Village Drive	Cantebury Road	Village Drive South	370	26	0.167	1068.9	116.5	110.1	6.4	53.4
Windsor Circle	Windsor Drive	Windsor Drive	1403	21	0.167	3273.7	356.7	337.1	19.6	163.7
Windsor Drive	Windsor Drive	NW Circle	42	62	0.167	289.3	31.5	29.8	1.7	14.5
Windsor Drive	Windsor Drive	NE Circle	45	60	0.167	301.0	32.7	30.9	1.8	15.1
Victorian Drive	Fourth Street	Fourth Street	2717	21	0.167	6339.7	690.8	652.8	38.0	317.0
Windsor Court	Windsor Drive	Dead End	448	21	0.167	1045.3	113.9	107.6	6.3	52.3
Windsor Drive	Windsor Circle	Windsor Court	228	21	0.167	532.0	58.0	54.8	3.2	26.6
Windsor Court	Windsor Drive	Intersection	78	42	0.167	364.0	39.7			
TOTAL	S					37,768.1	4,115.4	41,883.5	224.2	1,870.2

			SUMI	MARY OF	ASPHAL	T QUANT	TITIES FOR WEST C	UINCY		
			Length	Width	Mill	ling	** HMA Commercial Grade Class A	*Aggregate for Bituminous Surface Course	*Asphalt Cement (PG 64-22)	*Emulsified Asphalt (SS- 1H or CSS-1H) (Tack)
Street or Intersection	From	То	(Feet)	(Avg) (Ft)	Depth (Ft)	(SqYds)	(Tons)	(Tons)	(Tons)	(Gallons)
West Quincy	Georgia	Elmwood Lane	525	26	0.167	1516.7	165.3	156.2	9.1	75.8
West Quincy	Elmwood Lane	Intersection	96	62	0.167	661.3	72.1	68.1	4.0	33.1
West Quincy	Elmwood Lane	Catalpa	752	38	0.167	3175.1	346.0	327.0	19.0	158.8
West Quincy	Catalpa	Intersection	87	46	0.167	444.7	48.5	45.8	2.7	22.2
West Quincy	Catalpa	College	624	24	0.167	1664.0	181.3	171.3	10.0	83.2
West Quincy	College	Intersection	74	45	0.167	370.0	40.3	38.1	2.2	18.5
West Quincy	College	Olive	512	29	0.167	1649.8	179.8	169.9	9.9	82.5
West Quincy	Olive	Intersection	57	45	0.167	285.0	31.1	29.3	1.7	14.3
West Quincy	Olive	Quincy Court	505	30	0.167	1683.3	183.4	173.3	10.1	84.2
West Quincy	Quincy Court	Intersection	45	63	0.167	315.0	34.3	32.4	1.9	15.8
West Quincy	Quincy Court	Broadway	456	30	0.167	1520.0	165.6	156.5	9.1	76.0
				Total for	r West Quincy	13,284.9	1,447.6	14,732.5	79.6	664.2
			Milling Total	for Quincy an	nd Countryside	51,053				
				Total	for Quincy and	l Countryside	5563	56,616.0	303.8	2,534.5
				ADD 10%	for Variations	in Thickness	556			
					JOB Grand	Total (TONS)	6119			

^{**} Includes 10% contingency for variations in thickness

*For information only

Windsor Drive and Villa Drive

TOTALS

Quincy at Walnut Street

		RATES OF APPLICATION
RATE	UNIT	ITEM
146.6	Lbs/ CuFt	HMA Commercial Grade (Class A) (Aggregate and Asphalt)
5.5	%	Asphalt Cement (PG 64-22) by Weight Aggregate Dry
0.05	Gal/ Syd	Emulsified Asphalt (SS-1H) or (CSS1-H) (Tack)



No.	Revision	Ву	Date

56.7

53.3

270

0.667

0.667

10

12.6

11.9

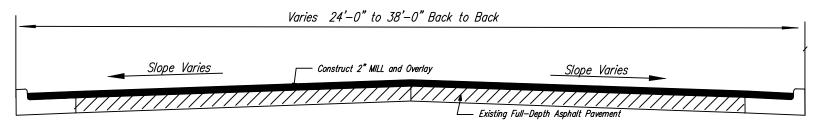
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GENERAL NOTES AND MATERIAL QUANTITIES

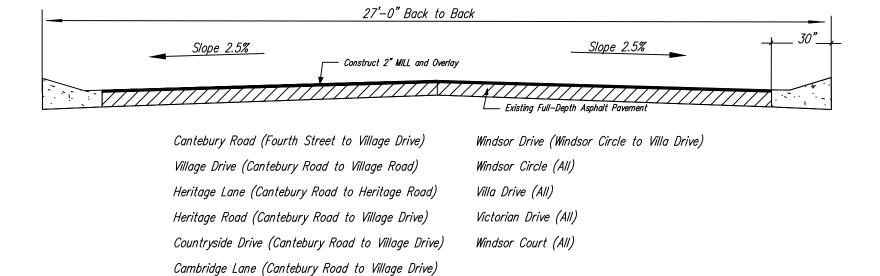
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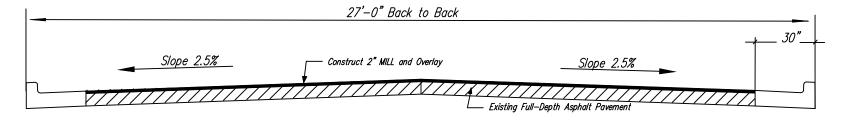
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^{**}Concrete Volume given for information only, see sheet 6 for location map



West Quincy Street (Georgia to Pine Streets)





Village Road (Fourth Street to Village Drive)

Village Drive (Colonial Drive to Village Road)

Windsor Drive (Village Drive to Windsor Circle)

Colonial Drive (Village Drive to Countryside Drive)

Countryside Drive (Village Drive to Free King Hwy)

No. Revision By Date

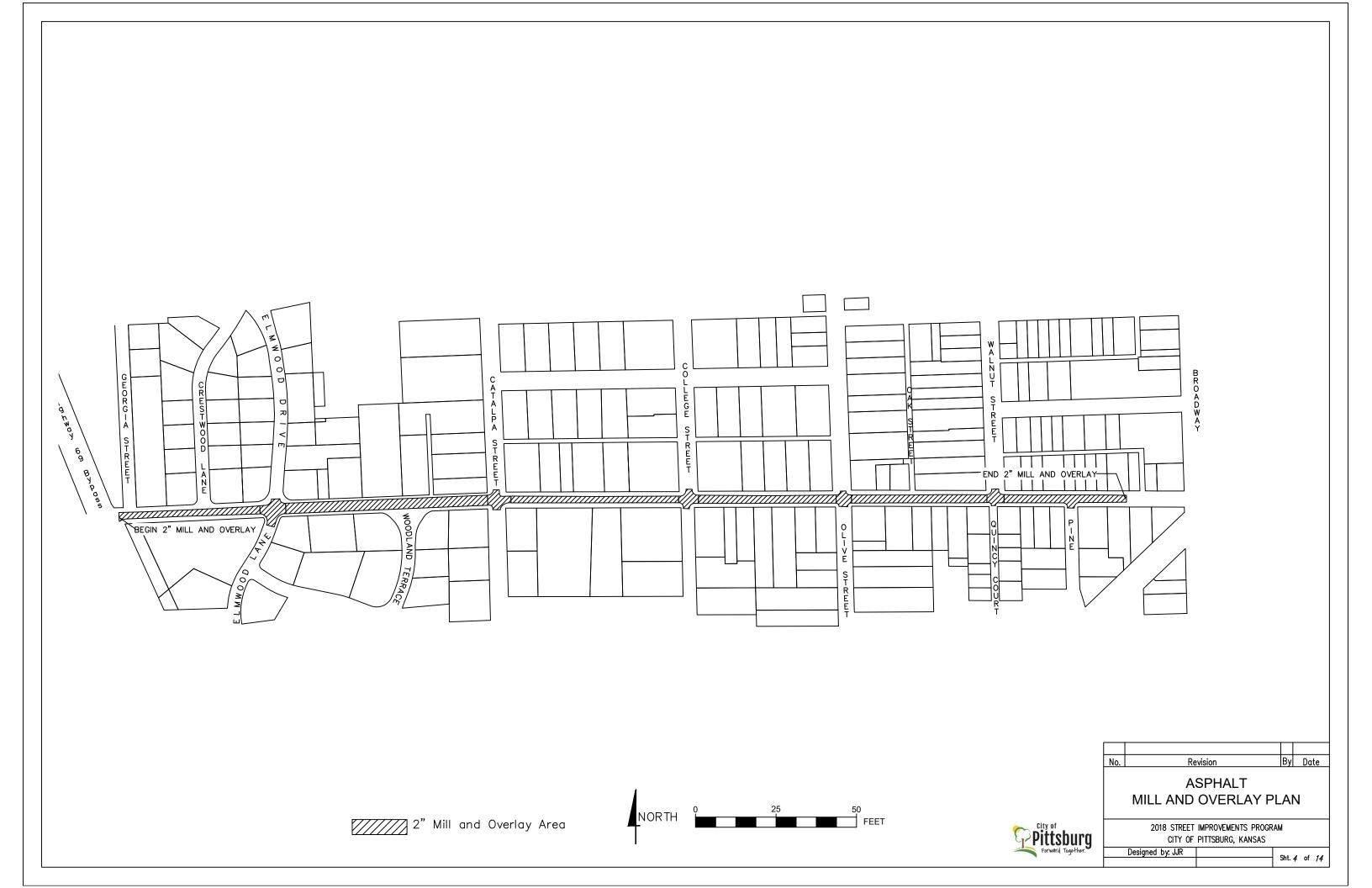
TYPICAL SECTIONS

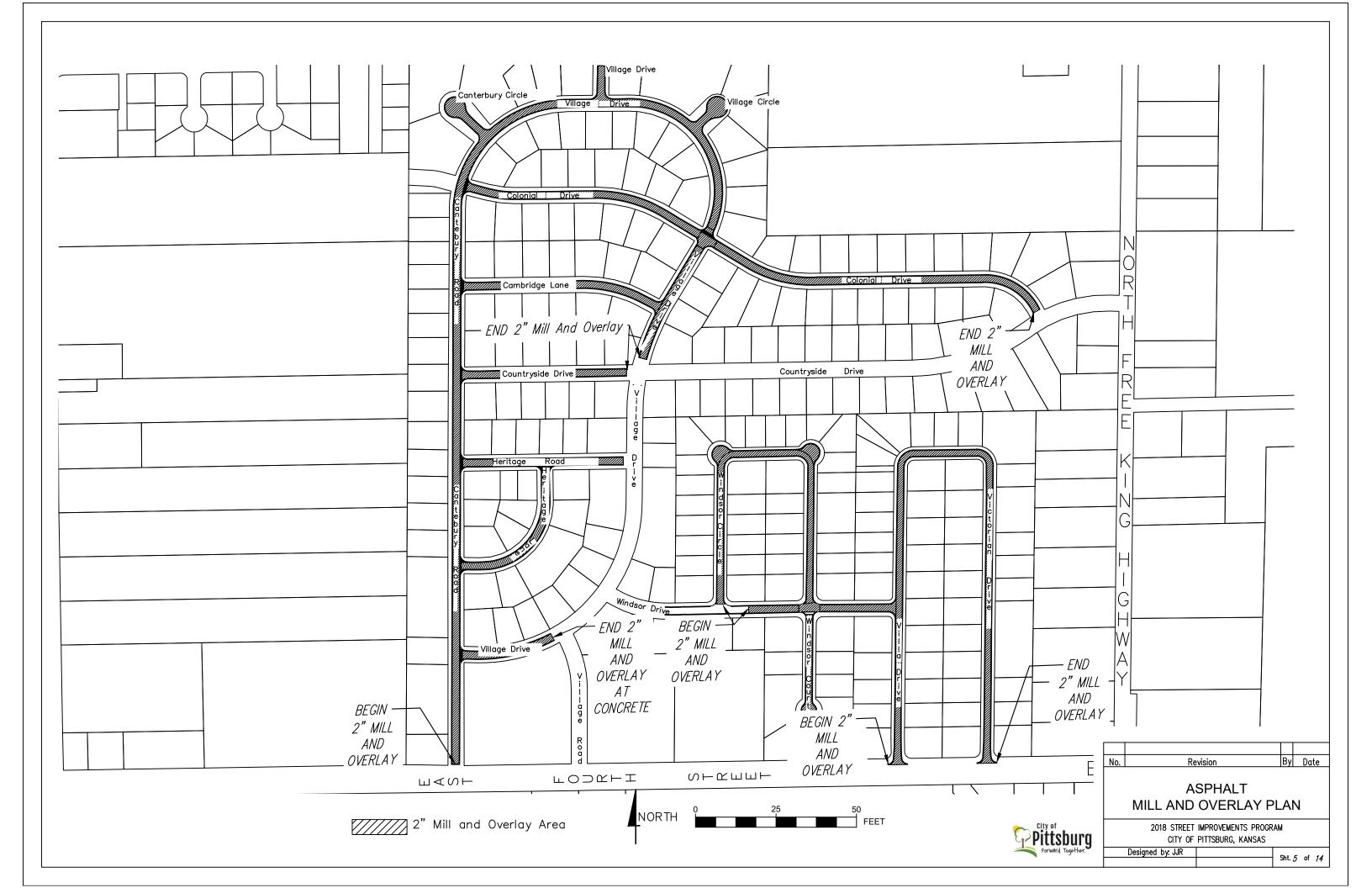
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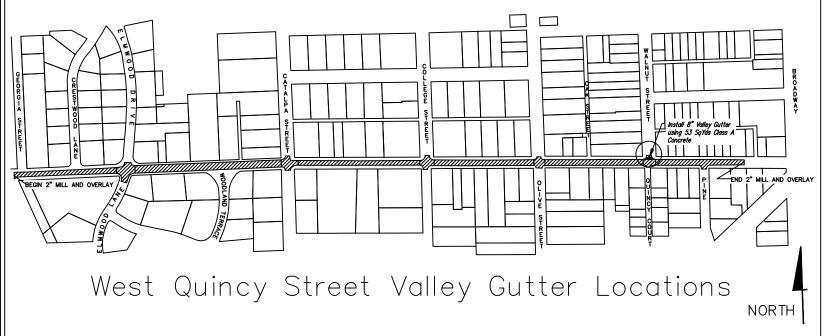
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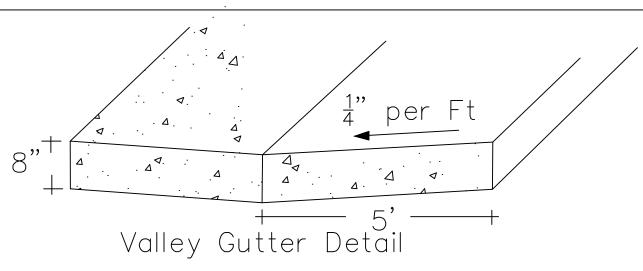
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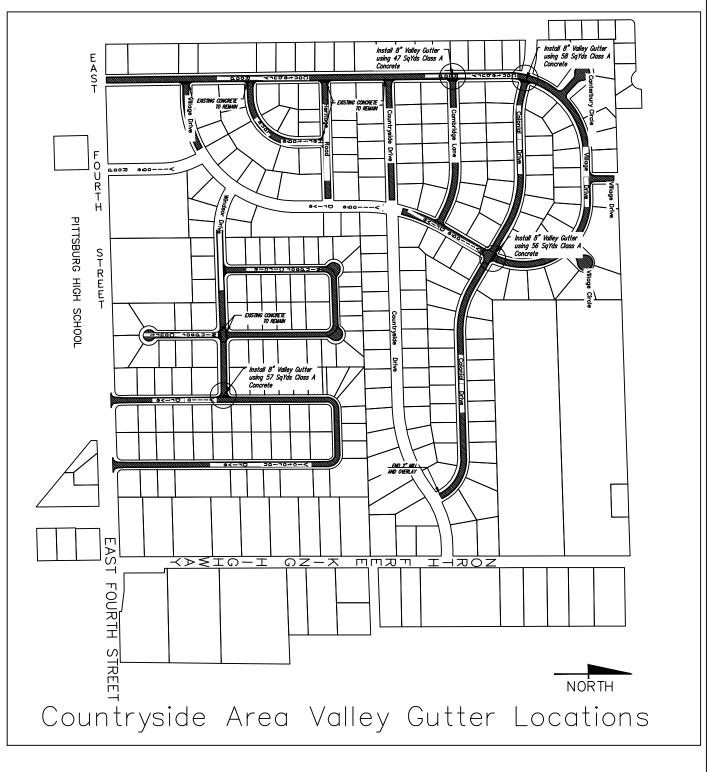






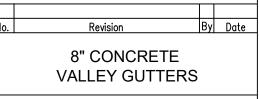


Scarify and compact area below valley gutter.
Use Class A High—Early Concrete Utilizing 658 lbs of Type III
Cement and 2% Calcium Chloride By Dry Weight of Cement.
Allow a Minimum of 4 hours between Concrete placement and
Opening to Traffic Unless Otherwise Approved by Engineer.



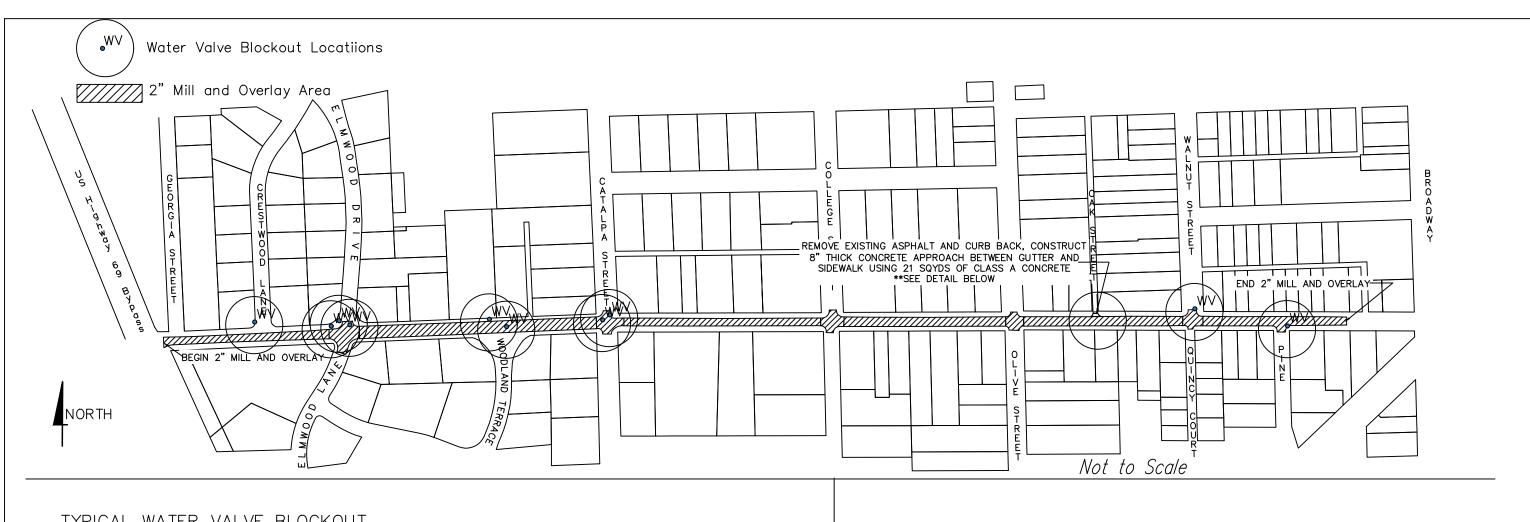


2" Mill and Overlay Area
Proposed Valley Gutter
Locations

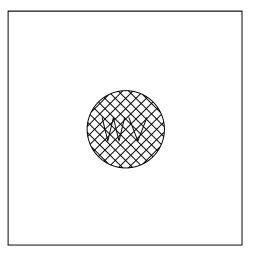


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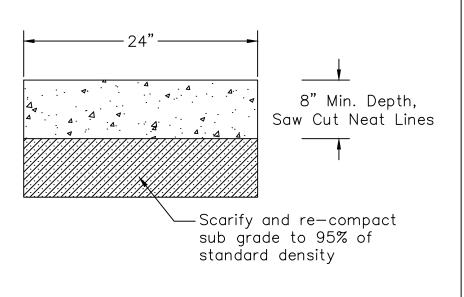
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TYPICAL WATER VALVE BLOCKOUT CONCRETE 24"X24"

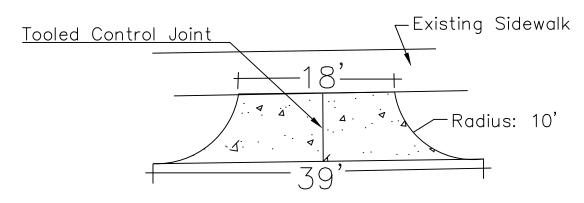


Use Class A High—Early Concrete Utilizing 658 lbs of Type III Cement and 2% Calcium Chloride By Dry Weight of Cement. Allow a Minimum of 4 hours between Concrete placement and Opening to Traffic Unless Otherwise Approved by Engineer.



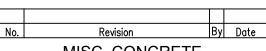
Not to Scale

OAK STREET APPROACH DETAIL



Use Class A High—Early Concrete Utilizing 658 lbs of Type III Cement and 2% Calcium Chloride By Dry Weight of Cement. Allow a Minimum of 4 hours between Concrete placement and Opening to Traffic Unless Otherwise Approved by Engineer.

Not to Scale



MISC. CONCRETE WATER VALVE BLOCKOUTS/ OAK STREET APPROACH

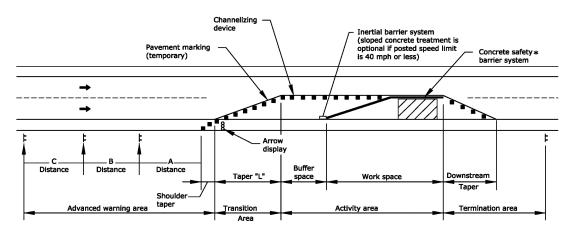
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- 1) Design Speed: Those items delegated to temporary traffic control should be designed and installed using the posted/legal speed of the roadway prior to work starting.
- 2) Minimum lane width: Lane widths shall be a minimum of 11' (measured between centerlines of pavement markings) or as shown on the plans, or as directed by the engineer. A lane width less than 11' may require restricted roadway width signing.
- 3) Consideration should be made to seperate pedestrian and, if needed, bicycle movements from both work site activity and vehicular traffic. Unless a reasonable safe route that does not involve crossing the roadway can be provided, pedestrians should be appropriately directed with advance signing that encourages them to cross to the opposite side of the roadway. In urban and suburban areas with high vehicular traffic volumes, these signs should be placed at intersections (rather than midblock locations) so that pedestrians are not confronted with midblock work sites that will induce them to attempt skirting the work site or making a midblock crossing.
- 4) When existing pedestrian facilities are disrupted, closed, or relocated, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.
- 5) When the driving surface open to traffic is milled, is a temporary surface made of loose material, or when directed by the engineer use the W8-15 (Grooved Pavement) or W8-7(Loose Gravel) a "C" distance after the W20-1 (Road Work Ahead) on mainline approaches. Signs may be used with the W8-15p motorcycle plaque as directed by the engineer. Display signs in advance of the condition as long as the condition is present.
- 6) Alternative temporary rumble strip options may be available. Please contact the Temporary Traffic Control Unit for more information at 785-296-0355 or 785-296-1183.



TYPICAL WORK ZONE COMPONENTS

*When concrete barrier system is used, portable channelizing devices are not needed along the tangent barrier section.

Minimum advance warning sign spacing (in feet):

SPEED (MPH) *	Α	В	С
URBAN (40 MPH OR LOWER)	100	100	100
URBAN (45 MPH OR HIGHER)	350	350	350
RURAL (55 MPH OR LOWER)	500	500	500
RURAL (60 MPH OR HIGHER)	750	750	750
EXPRESSWAY/FREEWAY	1000	1500	2640

* Posted speed prior to work starting

The minimum spacing between signs shall be no less than 100', unless directed by the engineer.

The spacing between any signs may be increased beyond the minimum values in the table above as approved by the engineer in order to maximize visibility

Taper Formulas:

L = WS for speeds of 45 MPH or more

 $L = WS^2/60$ for speeds of 40 MPH or less

Where: L = Minimum length of taper in feet
S = Numericial value of posted speed
prior to work starting in MPH
W = Width in offset feet

Shifting taper=1/2 L Shoulder taper=1/3 L

Channelizer placement:

- (1) The spacing between devices in transition area (taper) should not exceed a distance in feet equal to 1/2 the posted speed limit in mph prior to work starting.
- (2) The spacing between devices in the advanced warning area and the activity area should not exceed a distance in feet equal to two times the posted speed limit in mph prior to work starting.
- (3) Channelizing devices shall be placed for optimum visibility, normally at right angles to the traffic flow.
- (4) Place directional indicator barricades in series to direct traffic onto the new path. The arrow sign should not be visible to opposing traffic.
- (5) Alternating diagonal orange and white striping must slope downward in the direction traffic is expected to pass.

Buffer Space

SPEED (MPH) *	20	25	30	35	40	45	50	55	60	65	70	75
LENGTH (ft)	115	155	200	250	305	360	425	495	570	645	730	820

* Posted speed prior to work starting

Neither work activity nor storage of equipment, vehicles, or material should occur in the buffer space. When a protection vehicle is placed in advance of the work space, only the space upstream of the vehicle constitutes the buffer space.

If temporary concrete safety barrier system is used to seperate approaching traffic from the work space, the barrier system shall be considered part of the activity area. A full lane width should be available throughout the length of the buffer space. See typical work zone components above.

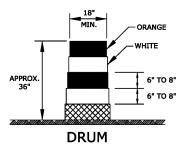
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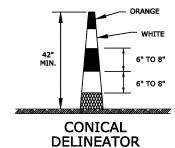
TRAFFIC CONTROL GENERAL NOTES

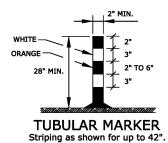


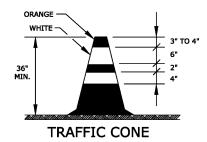
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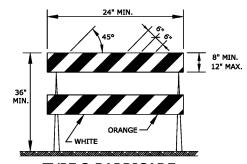
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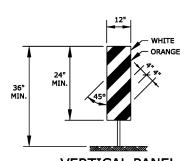




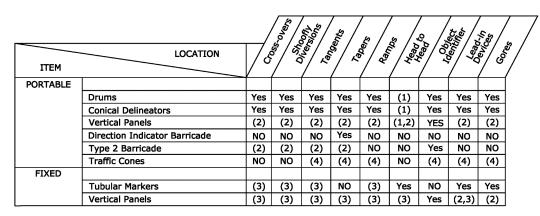
TYPE 2 BARRICADE

For rails less than 36" long, 4" wide stripes may be used.

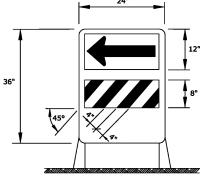
All stripes shall slope downward to the traffic side for channelization.



VERTICAL PANEL
The stripes shall slope downward
to the traffic side for channelization.

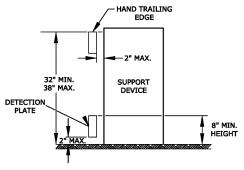


- (1) Not allowed on centerline delineation along freeways or expressways.
- (2) The stripes shall slope downward to the traffic side for channelization.
- (3) May be used upon the approval of the engineer.
- (4) Daytime operations only.



DIRECTION INDICATOR BARRICADE

The stripes shall slope downward in the direction traffic is to pass. The direction indicator barricade shall be used in series to direct the motorist into the intended lane of travel.



PEDESTRIAN CHANNELIZER

- 1. Support device shall not project beyond the detection plate into the pathway.
- 2. Hand trailing edges and detection plates are optional for continuous walls.
- 3. Interconnect pedestrian channelizers to prevent displacement and to provide continuous guidance through or around work.4. Alternate pathways shall be firm, stable, and slip resistant.
- 4. Alternate pathways shall be firm, stable, and slip resistant.
 5. Treat height differentials > 1/2" in the surfaces of alternate
- paths with a firm, stable, and slip resistant temporary ramp having a slope of 12:1 or flatter and having a width equal to the alternate path.
- 6. Use alternating orange/white on interconnected devices.

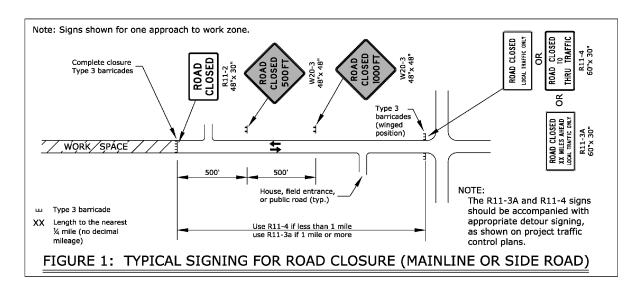
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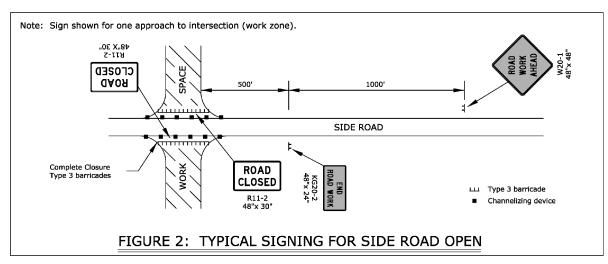
TRAFFIC CONTROL
CHANNELIZING DEVICES

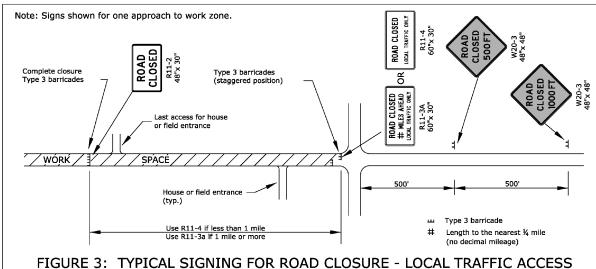


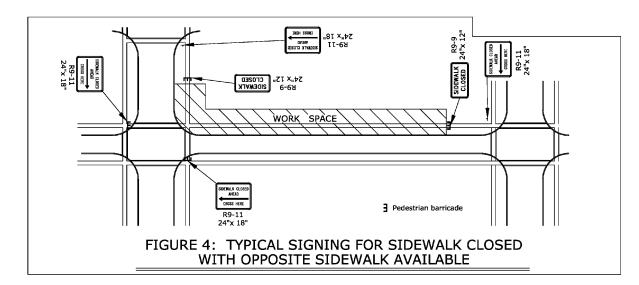
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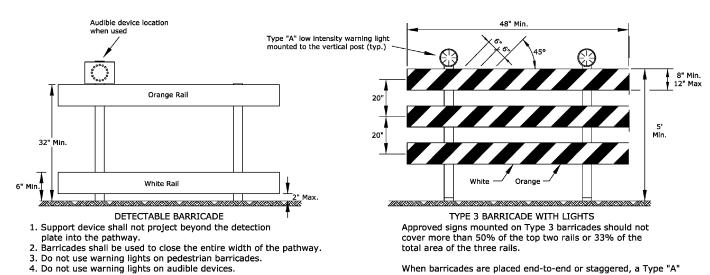
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low intensity warning light shall be mounted to the vertical post near each outside corner of the end barricades.

ROAD CLOSED GENERAL NOTES

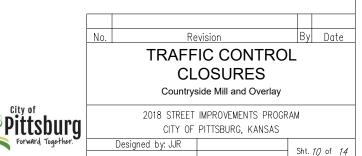
As shown in Figure 1, at the point where thru traffic must detour and local traffic can proceed to the location where the roadway is completely closed, the R11-3a (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY) or R11-4 (ROAD CLOSED LOCAL TRAFFIC ONLY or ROAD CLOSED TO THRU TRAFFIC) sign shall be used with Type 3 barricades (winged position), placed on the shoulders of roadway.

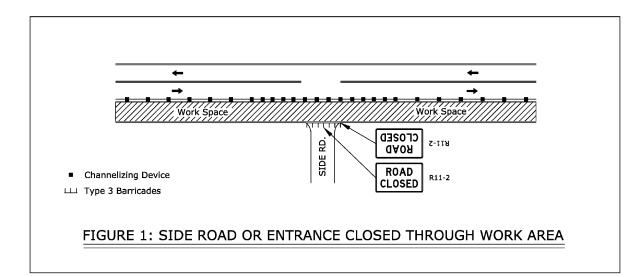
As shown in Figure 3, when local traffic must be allowed access into the work zone, Type 3 barricades shall be longitudinally staggered to maintain the appearance of a closed roadway. A second line of end-to-end Type 3 barricades shall be placed just beyond the last access point in the work zone, to completely close the roadway.

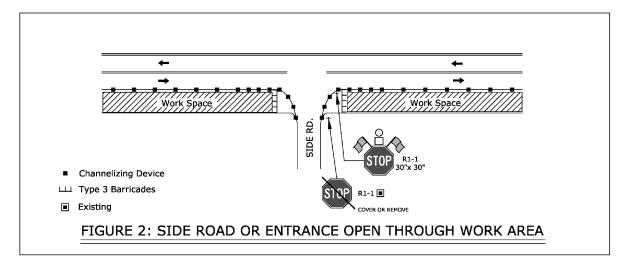
The R11-4 (ROAD CLOSED TO THRU TRAFFIC or ROAD CLOSED LOCAL TRAFFIC ONLY) sign shall be used when the distance to the point of complete closure of the roadway is less than 1 mile.

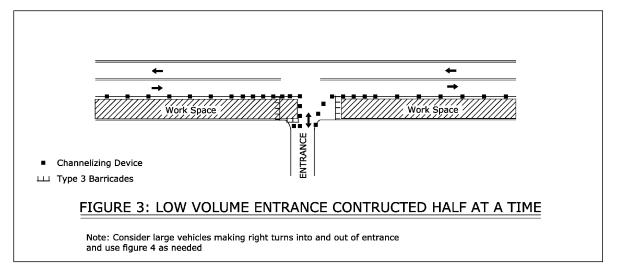
The R11-3a (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY) sign shall be used when the distance to the point of complete closure of the roadway is 1 mile or greater.

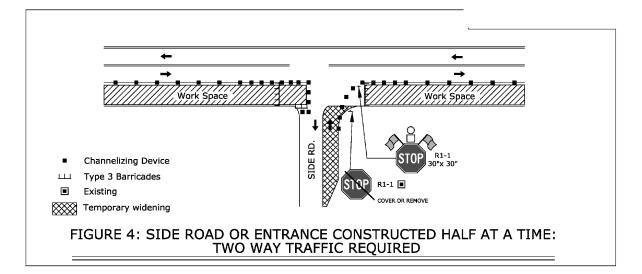
The words "BRIDGE OUT" (or BRIDGE CLOSED) may be substituted for the words "ROAD CLOSED" on the R11-3a or R11-4 sign where applicable.

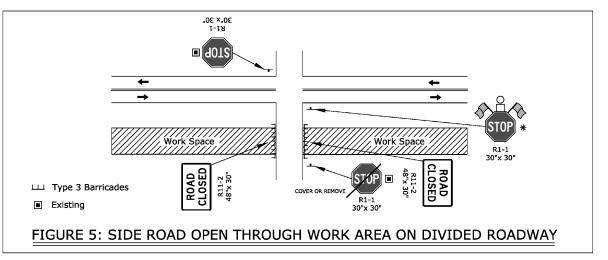














TRAFFIC CONTROL
ACCESS THROUGH THE WORK AREA



2018 STREET IMPROVEMENTS PROGRAM CITY OF PITTSBURG, KANSAS

Designed by: JJR Sht. 11 of 14

SIGN LAYOUT INFORMATION

GROOVED

PAVEMENT

W8-15

LOOSE

GRAVEL

W8-7

W8-15p

UNEVEN

LANES

W8-11

STD. SIZE EXPWY/FREEWAY

48"x 48'

STD. SIZE

EXPWY/FREEWAY

8" D

48"x 48"

STD. SIZE

EXPWY/FREEWAY

30"x 24"

STD. SIZE

EXPWY/FREEWAY

8" D

48"x 48"

END ROAD WORK KG20-2

> WAIT FOR PILOT CAR

STD. SIZE EXPWY/FREEWAY

6" C 48"x 24"

STD. SIZE EXPWY/FREEWAY

6" C

48"x 24" KG20-5

STD. SIZE EXPWY/FREEWAY WORK ZONE 3" C 6" C KM4-20 24"x 6" 48"x 12"

NEXT Mileage to be determined X MILES by the engineer. W7-3a

STD. SIZE EXPWY/FREEWAY 48"x 48"

STD. SIZE EXPWY/FREEWAY 30"x 24"

W8-17P (OPTIONAL)

SHOULDER

DROP-OFF

W8-17

NB US-75 CLOSED FOLLOW DETOUR

STD. SIZE EXPWY/FREEWAY 6" C 10" D

SP-01 (SPECIAL SIGN)

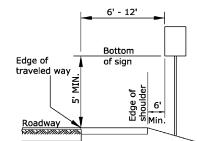
US-75 CLOSED NORTH OF Topeka FOLLOW DETOUR

STD. SIZE UPPERCASE: 6" C LOWERCASE: 4.5" C

EXPWY/FREEWAY UPPERCASE: 10" D LOWERCASE: 8" D

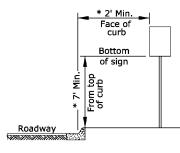
SP-02 (SPECIAL SIGN)

ALL CITY NAMES AND STREET NAMES ON SPECIAL SIGNS AND DESTINATION SIGNS MUST HAVE UPPER AND LOWER CASE LETTERS.



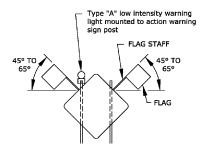
Rural

- 1) Ground-mounted signs shall be mounted at a minimum height of 5' measured from the bottom of sign to the near edge of the
- 2) Large signs having an area exceeding 50 square feet installed on multiple breakaway posts shall be mounted a minimum of 7' above the ground.
- 3) The height of the secondary sign mounted below another sign may be 4' measured from the bottom of the sign to the near edge of the pavement. Signs shall not overlap



Urban

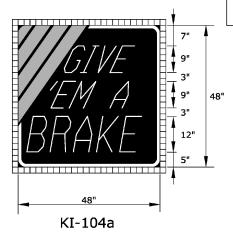
- 1) Signs shall be mounted at a minimum height of 7' measured from the bottom of sign to the near edge of the pavement.
- 2) Neither portable nor permanent sign supports should be located on sidewalks or areas designated for pedestrian or bicycle traffic.
- 3) Signs mounted lower than 7' should not project more than 4" into pedestrian
- 4) The height from of the secondary sign mounted below another sign may be 6' measured from the bottom of sign to the near edge of the pavement. Signs shall not overlap each other.
- 5) Large signs having an area exceeding 50 square feet installed on multiple breakaway posts shall be mounted a minimum of 7' above the ground.
- * 6) Pedestrian detour signing shall be a minimum of 2' measured from the top of the pedestrian pathway to the bottom of the sign and shall not protrude into the walkway nor shall it project beyond the back of curb.



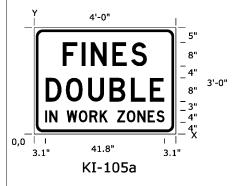
When the sign width is equal to or greater than 9', three or more wood posts may be used with a minimum of 4' between the centerline of each post. All signs less than 9' in width shall use a maximum of two wood

- In the case of hitting rock when driving posts

 1. Shift the sign location. Do not violate minimum sign spacing.
- 2. With the engineer's approval, use acceptable alternative sign stands.



SIGN NUMBER	GIVE EM A BRAKE
WIDTH x HEIGHT	4'-0" x 4'-0"
BORDER WIDTH	1.0"
CORNER RADIUS	4.0"
STRIPE WIDTH	3.0"
MOUNTING	GROUND
BACKGROUND	TYPE: NON-REFLECTIVE
	COLOR: BLACK
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE
LEGEND FONT	DUTCH 801 ROMAN SWC
	25 DEGREE SLANT
STRIPES	TYPE: REFLECTIVE
	COLOR: ORANGE



SIGN NUMBER	FINES DOUBLE				
WIDTH x HEIGHT	4'-0" x 3'-0"				
BORDER WIDTH	0.9"				
CORNER RADIUS	3.0"				
MOUNTING	GROUND				
BACKGROUND	TYPE: REFLECTIVE				
	COLOR: WHITE				
LEGEND/BORDER	TYPE: NON-REFLECTIVE				
	COLOR: BLACK				

DIMENSIONS IN INCHES

SPACINGS ARE TO START OF NEXT LETTER

Y FONT	FONT LETTER SPACINGS													S	HT LEN	
23.0	\boxtimes	F	I	N	Е	S	\supset									8.0
D	9.7	6.4	3.2	7.3	6.4	5.4	9.7									28.6
11.0	\boxtimes	D	0	U	В	L	E	\supset								8.0
D	3.9	6.9	7.5	7.3	7.3	6.4	4.9	3.9								40.3
4.0	\boxtimes	I	N	\times	W	0	R	K	\supset	Ζ	0	N	E	S	\times	4.0
D	3.1	1.6	2.7	3.2	4.3	3.8	3.6	2.8	3.2	3.4	3.8	3.6	3.2	2.7	3.1	41.8

Notes:

Typically, there are two sets of informational signs installed per project: one for each

Install signs a minimum of 500' in advance of the road work ahead sign. The engineer may designate a more appropriate location if conditions dictate.

The informational signs are not to interfere with the traffic control signs for the project.

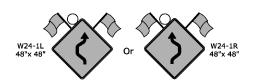
By Date Nο Revision

> TRAFFIC CONTROL **WORK ZONE SIGNS**

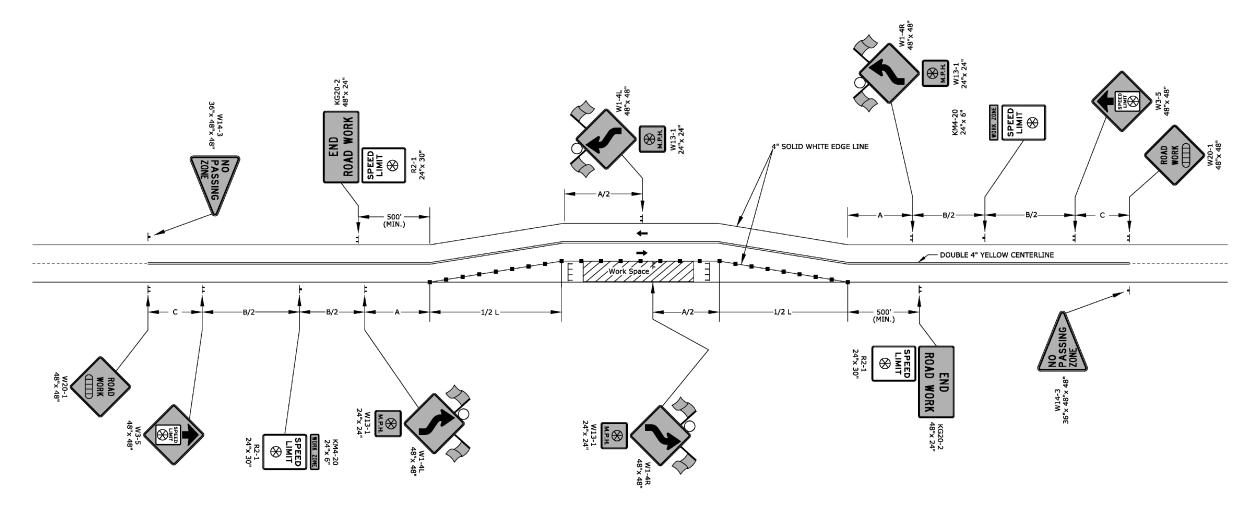


2018 STREET IMPROVEMENTS PROGRAM CITY OF PITTSBURG, KANSAS Designed by: JJR

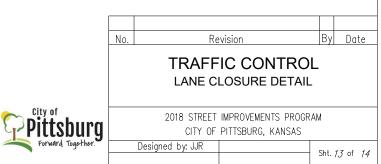
Sht. 12 of 14



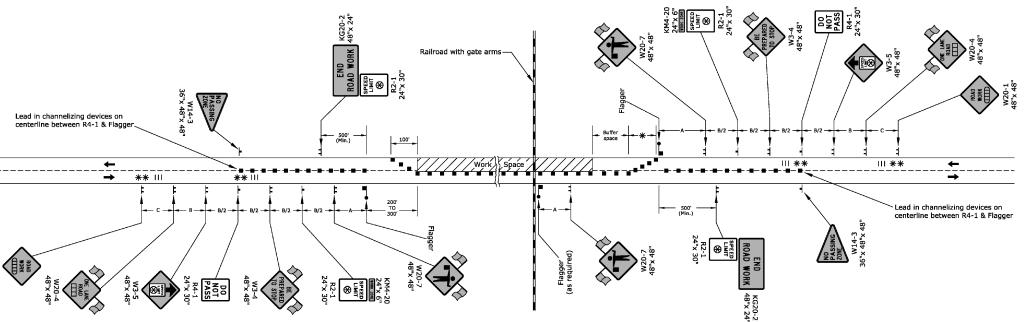
One W24-1 may be used per approach where the tangent distance between two reverse curves is less than 600 ft. If used, use in place of the first W1-4 and eliminate the second.



□ Channelizing device
□□ Type 3 barricades
□□ Ahead, 1500 ft, or 1 mile
Speed to be determined by the Engineer
□ Type "A" low intensity warning light



FLAGGER



FLAGGER AND PILOT CAR ad in channelizing devices on nterline between R4-1 & Flagger III ** Work Space Lead in channelizing devices on centerline between R4-1 & Flagger Typical signing for a minor side road approach to work space Railroad with gate arms STOP R1-1 30"x 30" WAIT FOR PILOT CAR KG20-5 48"x 24" Channelizing device 48"× 54" KG50-5 Ahead, 1500 ft, or 1 mile \square Ahead, 1000 ft, 1500 ft, or $\frac{1}{2}$ mile ROAD WORK Speed to be determined by the Engineer END O Type "A" low intensity warning light III Temporary portable rumble strips

USE TE731 FOR FLAGGER OR PILOT CAR ON ROADWAYS WITH CONCRETE SHOULDERS GREATER THAN 8 FT.

Trucks hauling material to the project should STOP at the Flagger. After stopping, upon approval of the Engineer, trucks may be allowed to move around the Flagger.

Place a Flagger at all highway and major collector intersections and at-grade railroad intersections with lights and gates in the work space to control traffic crossing the tracks to the left of the gate arm. The need for a Flagger at minor side road intersections shall be determined by the Engineer. Place a W20-7 (Flagger symbol) sign on each side road that is controlled by a Flagger.

Existing signs shall not be covered or removed between Flagger stations.

Temporary rumble strips may be used in lieu of lead in channelizing devices when the roadway is less than or equal to 30' including paved shoulders. When extenuating circumstances exist, the Area Engineer may elect to eliminate both the lead in channelizers and the rumble strips.

* Minimum six (6) channelizers spaced at 20' intervals.

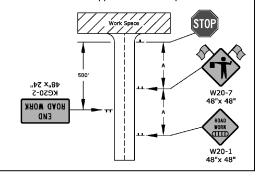
** Optional rumble strips may be placed: One set between the W20-1 and W20-4, and one set between the R4-1 and W3-4, on each approach.

△ Not required on substantial maintenance projects (1R).

 $\triangle\triangle$ The KG20-5 (WAIT FOR PILOT CAR) sign shall be mounted on an approved portable support and not attached to the existing stop sign post.

The KG20-5 sign shall be placed immediately in front of the existing stop sign, a minimum of 6" below the bottom of the stop sign. The sign should be

Typical signing for highway or major



By Date Revision

TRAFFIC CONTROL FLAGGER AND PILOT CAR DETAIL

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Pittsburg 2018 STREET IMPROVEMENTS PROGRAM CITY OF PITTSBURG, KANSAS Designed by: JJR

