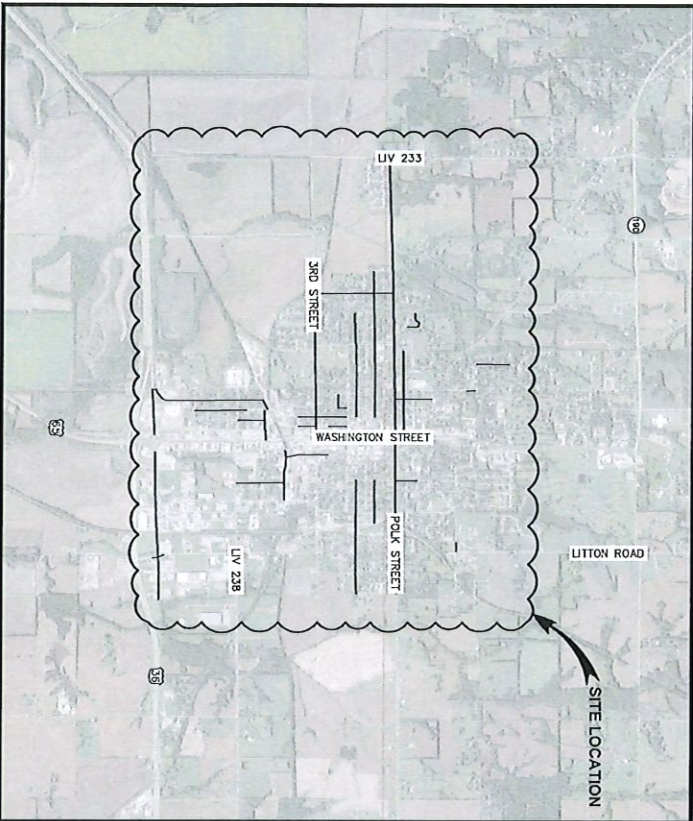


2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLCOTHE, MISSOURI



DMC NO.	LEGEND
NAME	
1	COVER SHEET
2	QUANTITIES
3	TYPICAL DETAILS
4	TYPICAL DETAILS
5	ASPHALT OVERLAY PAVING
6	CHIP SEAL PAVING - NORTH
7	CHIP & SEAL PAVING - SOUTH
8	TRAFFIC CONTROL
	STANDARD PLANS



ALGEIER, MARTIN and ASSOCIATES, INC.
CONSULTING ENGINEERS and SURVEYORS
7231 EAST 24th STREET JOPLIN, MISSOURI 64804 (417) 680-7200

STATE OF MISSOURI
DIVISION OF HIGHWAYS
DESIGNED BY: [blank]
CHECKED BY: [blank]
DATE: [blank]

DATE: [blank]
DRAWN BY: [blank]
CHECKED BY: [blank]
DATE: [blank]

DATE: [blank]
DRAWN BY: [blank]
CHECKED BY: [blank]
DATE: [blank]

DATE: [blank]
DRAWN BY: [blank]
CHECKED BY: [blank]
DATE: [blank]

DATE: [blank]
DRAWN BY: [blank]
CHECKED BY: [blank]
DATE: [blank]



ESTIMATED TABULATION OF CHIP & SEAL				
SITE NO. & DESCRIPTION	LENGTH (FT)	WIDTH (FT)	EMULSIFIED ASPHALT (GALS)	HAWDITE CHIPS (TONS)
3RD ST (BRANDVIEW TO WASHINGTON)	4,871	25.0	4,541.3	77.9
BIRD (LAURET TO DORNEY)	870	26.0	879.7	15.1
BRYAN (DEERWOOD TO WASHINGTON)	2,790	24.0	2,694.0	44.8
CLAYDON (WAGON TO WALWUT)	4,804	24.0	4,483.7	76.9
CLAYDON (WINE TO RAILROAD TRACKS)	1,470	24.0	1,343.3	28.9
CHERRY ST. (3RD TO 1ST)	608	23.0	544.8	9.3
CHERRY ST. (CLAY TO ANN)	843	24.0	800.1	10.3
CONELL (JACKSON TO GREEN)	1,720	20.0	1,327.8	22.9
ELM ST. (ANN TO JACKSON)	1,400	30.0	1,333.3	28.0
FAIR ST. (DORNEY TO 231 FEET SOUTH)	231	25.0	224.6	3.9
GRANDVIEW (POUL TO 3RD)	2,430	24.0	2,244.7	42.1
HENRY (JACKSON TO RYAN)	1,586	21.0	1,356.2	22.2
HILSDALE DRIVE (CONJEST TO BRYAN)	790	22.0	673.9	11.5
JACKSON AVE (CONJEST TO WALWUT) - WEST	3,425	23.0	3,081.6	52.5
JACKSON AVE (WINE TO EAST ST.) - EAST	1,800	24.0	1,402.3	25.6
JACKSON (CHURCH TO S. BRUNSWICK)	1,220	20.0	948.9	16.3
MCNALLY (RYAN TO POUL)	175	24.0	163.3	2.8
OLD HWY 36 (43RD EAST TO ANOTHER 172)	1,500	24.0	1,400.0	24.0
OLD HWY 36 (LAURET TO WASHINGTON)	4,380	24.0	4,088.0	70.1
OLD HWY 36 (WASHINGTON TO 43RD EAST)	125	70.0	346.3	5.8
SOUTH MITCHELL (1ST NORTH OF OLD HWY 30)	110	70.0	209.4	3.1
SOUTH MITCHELL (110 SOUTH OF OLD HWY 30)	5,125	24.0	4,733.3	82.0
POUL (WASHINGTON TO EAST STREET)	9,138	24.0	8,528.8	146.2
SAULE (CONJEST TO OLD HWY 30)	4,147	21.0	3,388.7	58.1
TRENTON (LUTON TO 3RD FEET WEST)	390	23.0	346.8	6.0
WALWUT (CLAY TO 1ST)	1,420	22.0	1,299.3	23.8
WATER (CONJEST TO WASHINGTON)	933	21.0	753.8	12.9
WILMARS (WARTS TO SOUTH)	900	20.0	703.8	12.1
ESTIMATED TOTALS	83,668		58,894	1,006
INCREASED PER PERCENTAGES			66,912	1097
PLAN			67,000	1090

NOTES:

-DIVISION ESTIMATED AT 0.35 GALLONS/SY AND INCREASED BY 14% FOR IRREGULARITIES

-HAWDITE ESTIMATED AT 12 LB/SY AND INCREASED BY 8% FOR IRREGULARITIES

ESTIMATED TABULATION OF PAVING FABRIC AREAS AND ASPHALT OVERLAY				
SITE NO. & DESCRIPTION	LENGTH (FT)	WIDTH (FT)	PAVING FABRIC AREA (SY)	ASPHALT OVERLAY (TONS)
EASTON (10TH TO POUL)	710	34.0	1,093.3	100.0
HOGAN/KORNER (WAGON TO CLAY)	746	24.0	1,090.3	105.0
ESTIMATED TOTALS	1,456		3,082.7	205.0
INCREASED PER PERCENTAGES			3,082.7	277
PLAN			3000	280
				470

NOTES:

-WEDGING CALCULATED AT 1"-INCH THICK AND INCREASED BY 30% FOR IRREGULARITIES

-ACTUAL WEDGING, IF REQUIRED, IS EXPECTED TO AVERAGE APPROXIMATELY 1/2 INCHES THICK AS SHOWN ON THE PLANS

-OVERLAY CALCULATED AT 2"-INCHES THICK AND INCREASED BY 7% FOR IRREGULARITIES

BID ITEM	DESCRIPTION	UNITS	QTY
401-12.11	BITUMINOUS PAVEMENT MIXTURE PG54-22 (89-5) (2"-INCH OVERLAY)	TONS	470
401-12.11A	BITUMINOUS PAVEMENT MIXTURE PG54-22 (89-5) (WEDGE COURSE, REPAIRS)	TONS	280
407-10.05	TRUCK COAT	GAL	368
409-10.46	EMULSIFIED ASPHALT SEAL COAT	GAL	67,000
409-99.05	1/4" HAWDITE CHIPS GRADE AS (BITUMINOUS SEAL COAT) APPLIED AS PER BITUMINOUS SEAL COAT	TONS	1090
601-10.10	CONCRETE CURB RAMP (44")	EA	13
606-10.12	TRUNCATED DOWELS	5"	130
606-10.13	4" INCH YELLOW WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS	EA	20
606-10.14	24 INCH WHITE WATERBORNE PAVEMENT MARKING PAINT, TYPE P BEADS	EA	140
606-10.15	WORK ZONE MANAGEMENT & CONTROL (CONSTRUCTION SIGNS, CHANNELIZERS, BARRICADES, ETC)	LS	1
606-10.16	MOBILIZATION	LS	1
606-10.17	COULMING BITUMINOUS PAVEMENT (FIDUCIARY, EDGES, TRANSITIONS, WADERS) (LESS THAN 3-IN THICK)	SY	930
606-10.18	PAVING FABRIC	SY	8000

(*) PAVEMENT MARKING BID ITEMS TO BE APPLIED TO OLD HWY 36 AND THE INTERSECTION AT SOUTH WALWUT. RECORD THE LAYOUT OF THE EXISTING PAVEMENT MARKING AND RESTORE TO MATCH EXISTING LAYOUT.

STANDARD NOTES:

1. ALL PAVEMENT REPAIRS & REPAVEMENT SHALL BE WITHIN THE LIMITS SPECIFIED AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIRS & REPAVEMENT. PAID FOR BUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.
2. ALL CONSTRUCTION & DEMOLITION ACTIVITIES SHALL BE CONFINED TO EXISTING RIGHT-OF-WAY AND/OR WORK AREA LIMITS AS SHOWN ON DRAWING.
3. ALL TRAFFICWAYS INCLUDING DRIVEWAYS, ALLEYS, AND SIDEWALKS SHALL REMAIN UNLESS OTHER ARRANGEMENTS WITH THE PROPERTY OWNER ARE MADE.
4. THE CONTRACTOR SHALL PROVIDE ALL BARRIERS (CONES, BARRICADES, SIGNS, TRAFFIC LIGHTS, ETC.) AS NECESSARY FOR A SAFE WORKING ENVIRONMENT.
5. DURING ALL CONSTRUCTION ACTIVITIES, CARE SHALL BE TAKEN TO PREVENT DAMAGE TO ADJACENT STRUCTURES, BURIED PIPING AND UTILITIES. REPAIR OF ALL STRUCTURES, ADJACENT STRUCTURES, BURIED PIPING AND UTILITIES SHALL BE AT THE CONTRACTOR'S EXPENSE. ALL UTILITIES SHALL BE REPAIRED TO ORIGINAL CONDITION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES, STORMWATER, MANHOLES, INLETS, ETC. LOCATED WITHIN THE PAVEMENT OVERLAY AREAS.



ALLGEIER, MARTIN and ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
7231 EAST 24TH STREET JOPLIN, MISSOURI 64804 (417) 680-7200

DATE: 03/09/2021
DRAWN BY: JMA
CHECKED BY: JMA
DATE: 03/09/2021

PROJECT: 2021 STREET RESURFACING AND MAINTENANCE OVERLAY
SHEET NO: 2

CHILLICOTHE, MISSOURI

DATE: 03/09/2021

PROJECT: 2021 STREET RESURFACING AND MAINTENANCE OVERLAY

SHEET NO: 2

CHILLICOTHE, MISSOURI

DATE: 03/09/2021

PROJECT: 2021 STREET RESURFACING AND MAINTENANCE OVERLAY

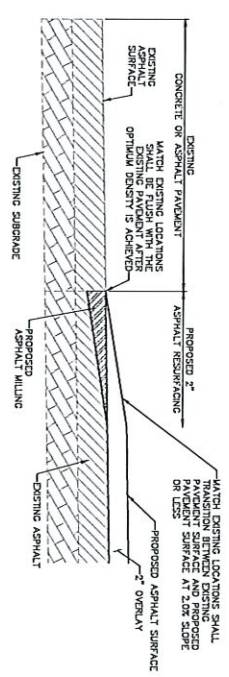
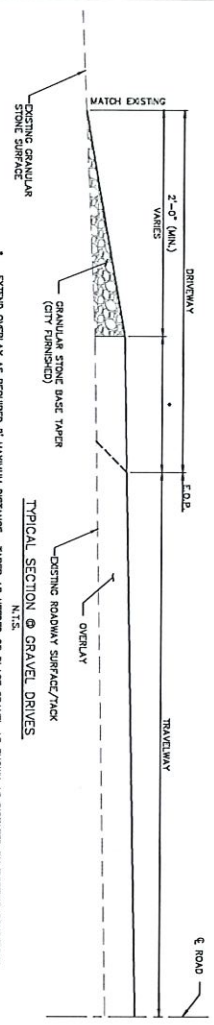
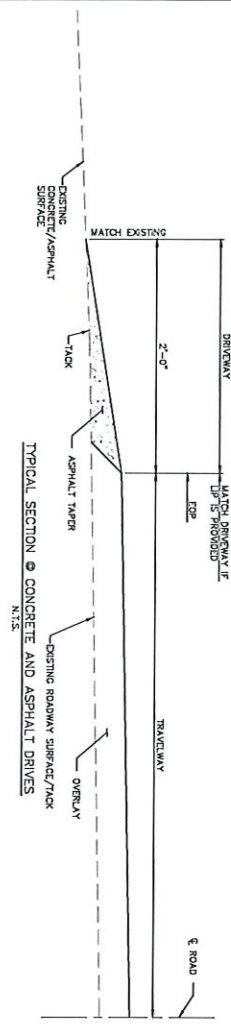
SHEET NO: 2

CHILLICOTHE, MISSOURI



NOTES.

1. COST OF TRANSITIONS, MILLING ETC. FOR DRIVEWAYS SHALL BE INCLUDED IN OTHER ITEMS.



ASPHALT MILLING @ MATCH EXISTING.
N.T.S.

* EXTEND OVERLAY AS REQUIRED 2' MAXIMUM DISTANCE. TAPER AS NEEDED OR PLACE GRAVEL AS SHOWN AS DICTATED BY DRAINAGE CONDITIONS.

AL

ALGEIER, MARTIN and ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
7231 EAST 24th STREET JOPLIN, MISSOURI 64604 (417) 680 - 7200

DATE	REVISION	BY

THIS DRAWING IS THE PROPERTY OF ALGEIER, MARTIN AND ASSOCIATES, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND LOCATION SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, REPRODUCED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ALGEIER, MARTIN AND ASSOCIATES, INC.

CLASSIFICATION OF DOCUMENT:
REVISION NO. 000007

DATE:

DRAWN BY:

CHECKED BY:

APPROVED BY:

TYPICAL DETAILS

2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLICOTHE, MISSOURI

DATE:

DRAWN BY:

CHECKED BY:

APPROVED BY:

TYPICAL DETAILS

2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLICOTHE, MISSOURI

DATE:

DRAWN BY:

CHECKED BY:

APPROVED BY:

TYPICAL DETAILS

2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLICOTHE, MISSOURI

DATE:

DRAWN BY:

CHECKED BY:

APPROVED BY:

TYPICAL DETAILS

2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLICOTHE, MISSOURI

DATE:

DRAWN BY:

CHECKED BY:

APPROVED BY:

TYPICAL DETAILS

2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLICOTHE, MISSOURI

DATE:

DRAWN BY:

CHECKED BY:

APPROVED BY:

TYPICAL DETAILS

2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLICOTHE, MISSOURI

DATE:

DRAWN BY:

CHECKED BY:

APPROVED BY:

TYPICAL DETAILS

2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLICOTHE, MISSOURI

DATE:

DRAWN BY:

CHECKED BY:

APPROVED BY:

TYPICAL DETAILS

2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLICOTHE, MISSOURI

DATE:

DRAWN BY:

CHECKED BY:

APPROVED BY:

TYPICAL DETAILS

2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLICOTHE, MISSOURI

DATE:

DRAWN BY:

CHECKED BY:

APPROVED BY:

TYPICAL DETAILS

2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLICOTHE, MISSOURI

DATE:

DRAWN BY:

CHECKED BY:

APPROVED BY:

TYPICAL DETAILS

2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLICOTHE, MISSOURI

DATE:

DRAWN BY:

CHECKED BY:

APPROVED BY:

TYPICAL DETAILS

2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLICOTHE, MISSOURI

DATE:

DRAWN BY:

CHECKED BY:

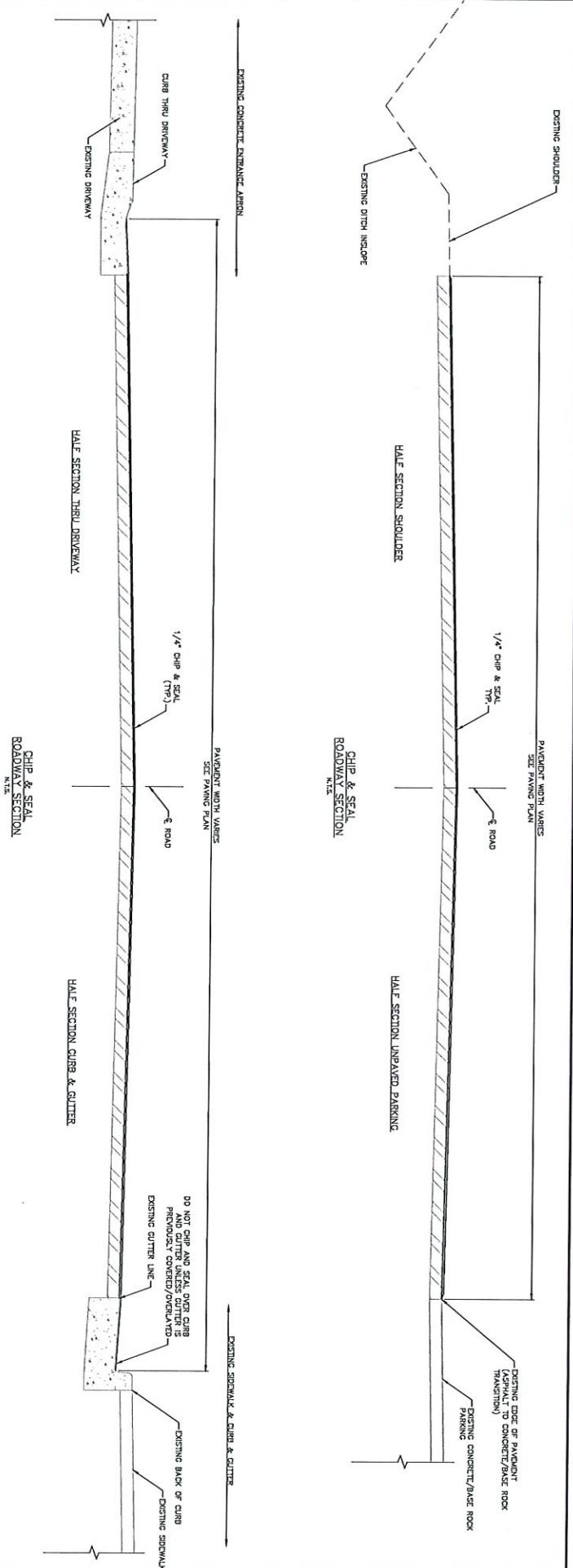
APPROVED BY:


TYPICAL DETAILS

2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLICOTHE, MISSOURI

DATE:






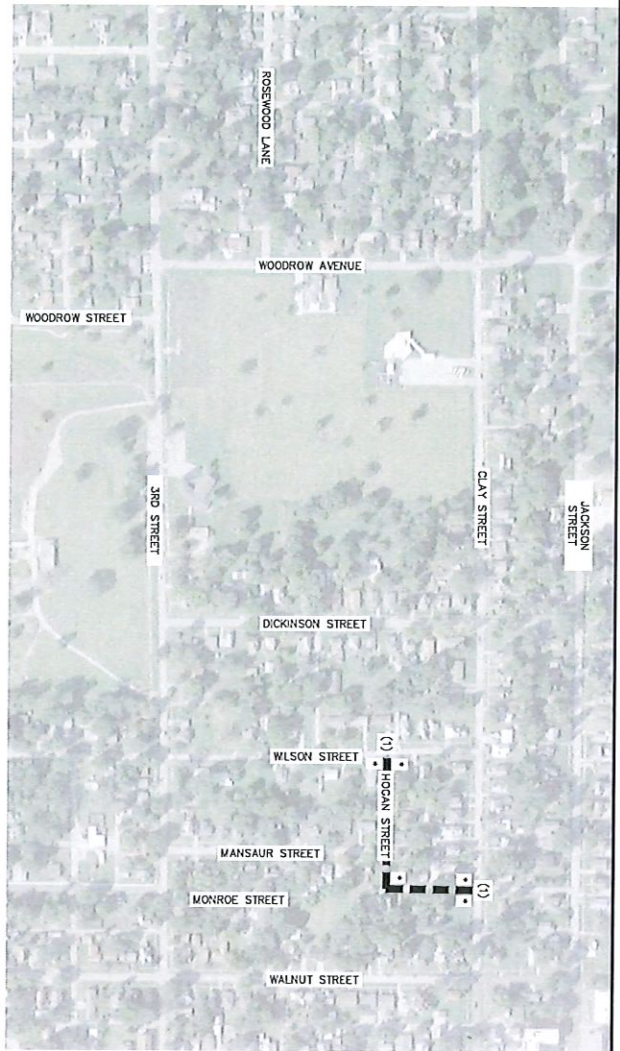
ALGIEIER, MARTIN and ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
7231 EAST 24th STREET JOPLIN, MISSOURI 64804 (417) 690-7200

DATE	BY	APP'D	DESCRIPTION
02/02/2021	MM	MM	TYPICAL DETAILS
02/02/2021	MM	MM	2021 STREET RESURFACING AND MAINTENANCE OVERLAY

CHILLOTHIE, MISSOURI

4





- ADA RAMP
 - (1) MID BLOCK STRIPING (5 LINES PER CROSSING)
- NOTES:
SEE MOTOR STANDARD PLANS FOR DETAILS.
RAMP SHALL EXTEND TO EXISTING SIDEWALKS AT
LOCATIONS SHOWN.

SUMMARY		PAYMENT MARKING
STREET	QTY.	MID BLOCK STRIPING (EA.)
HOGAN	2	5
MONROE	3	5
EASTON	8	20
TOTAL	13	30



ALGEIER, MARTIN and ASSOCIATES, INC.
CONSULTING ENGINEERS and SURVEYORS
7231 EAST 24th STREET JOPLIN, MISSOURI 64804 (417) 680-7200

THIS IS TO CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT COPY OF THE ORIGINAL AS SUBMITTED TO THE CITY OF JOPLIN, MISSOURI, FOR THE PURPOSE OF RECORDING.

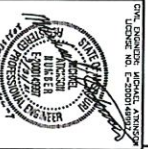
DATE: 02/02/2021
DRAWN BY: JWA
CHECKED BY: JWA

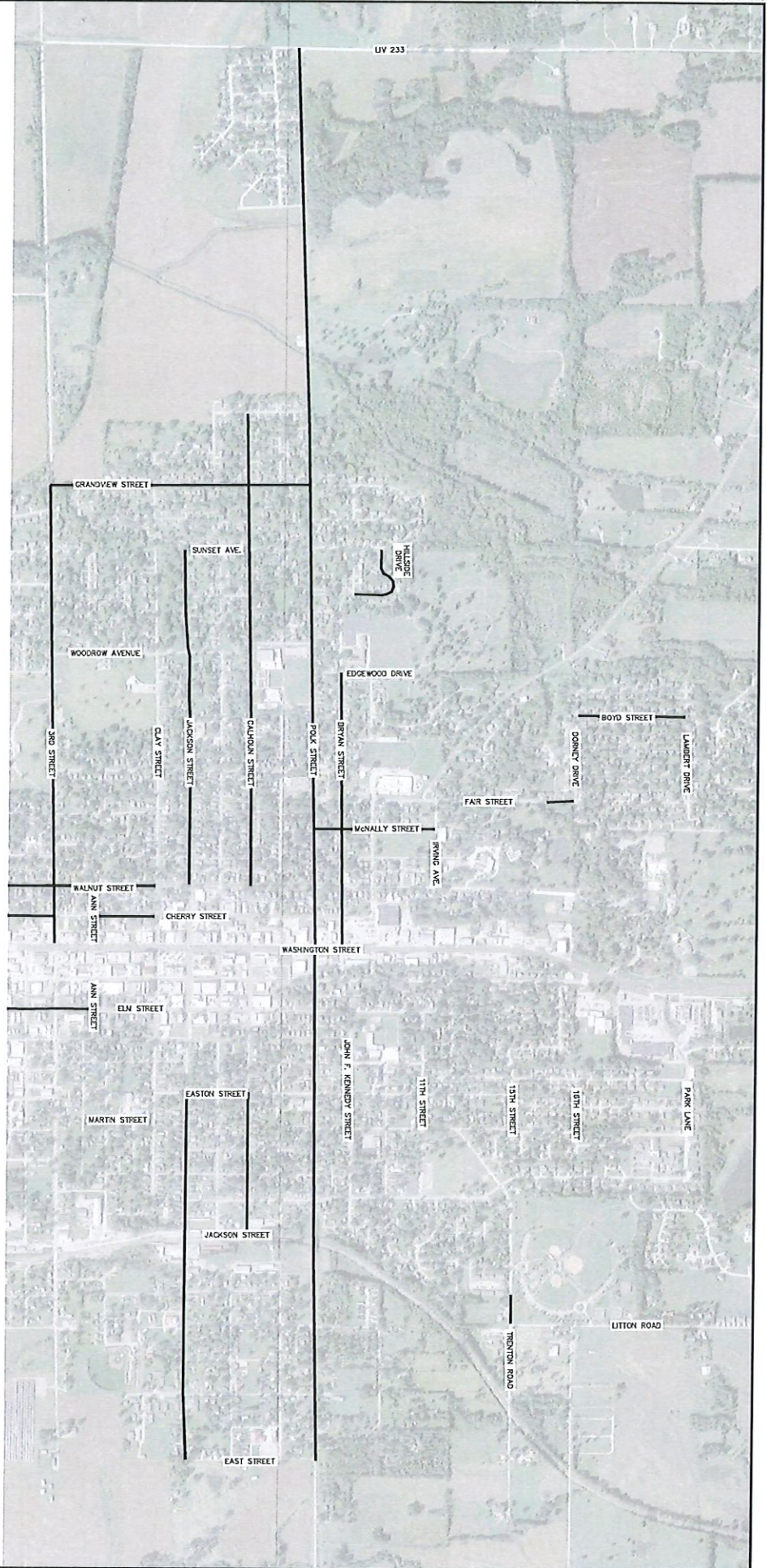
DATE: 02/02/2021
DRAWN BY: JWA
CHECKED BY: JWA

DATE: 02/02/2021
DRAWN BY: JWA
CHECKED BY: JWA

DATE: 02/02/2021
DRAWN BY: JWA
CHECKED BY: JWA

DATE: 02/02/2021
DRAWN BY: JWA
CHECKED BY: JWA





ALLGEIER, MARTIN and ASSOCIATES, INC.
CONSULTING ENGINEERS and SURVEYORS
7231 EAST 24th STREET JOPLIN, MISSOURI 64804 (417) 680-7200

THIS PLAN IS THE PROPERTY OF ALLGEIER, MARTIN AND ASSOCIATES, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND LOCATION SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF ALLGEIER, MARTIN AND ASSOCIATES, INC.

DATE: 02/20/2021
DRAWN BY: JMA
CHECKED BY: JMA
DATE: 02/20/2021

PROJECT: CHIP SEAL PAVING - NORTHERN PORTION
SHEET NO.: 6

DATE: 02/20/2021
DRAWN BY: JMA
CHECKED BY: JMA
DATE: 02/20/2021

PROJECT: CHIP SEAL PAVING - NORTHERN PORTION
SHEET NO.: 6

DATE: 02/20/2021
DRAWN BY: JMA
CHECKED BY: JMA
DATE: 02/20/2021

PROJECT: CHIP SEAL PAVING - NORTHERN PORTION
SHEET NO.: 6

DATE: 02/20/2021
DRAWN BY: JMA
CHECKED BY: JMA
DATE: 02/20/2021

PROJECT: CHIP SEAL PAVING - NORTHERN PORTION
SHEET NO.: 6

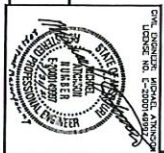
DATE: 02/20/2021
DRAWN BY: JMA
CHECKED BY: JMA
DATE: 02/20/2021

PROJECT: CHIP SEAL PAVING - NORTHERN PORTION
SHEET NO.: 6

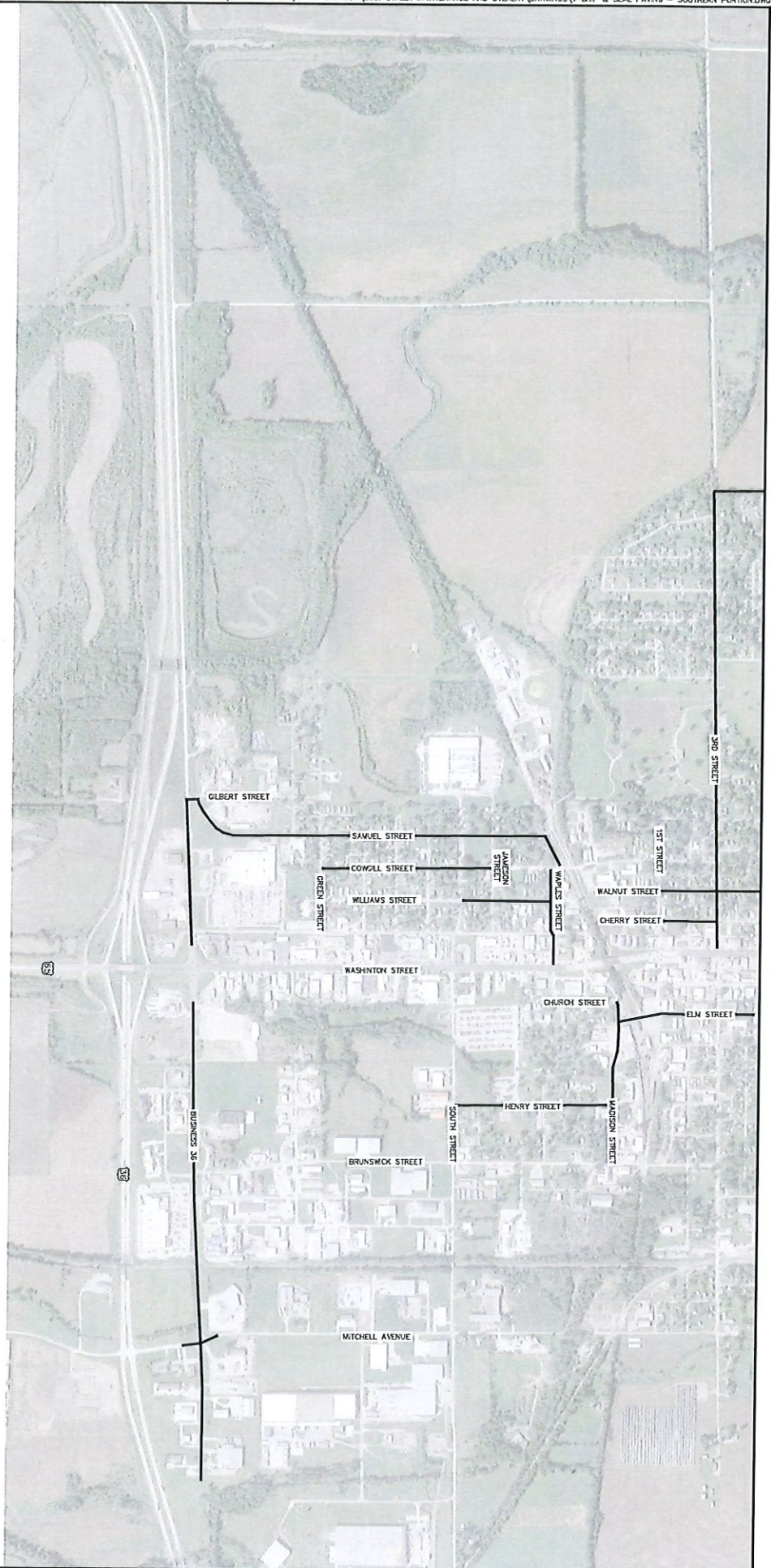
DATE: 02/20/2021
DRAWN BY: JMA
CHECKED BY: JMA
DATE: 02/20/2021

PROJECT: CHIP SEAL PAVING - NORTHERN PORTION
SHEET NO.: 6

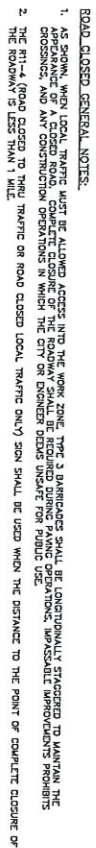
DATE: 02/20/2021
DRAWN BY: JMA
CHECKED BY: JMA
DATE: 02/20/2021



CONSULTING ENGINEERS AND SURVEYORS
7231 EAST 24th STREET JOPLIN, MISSOURI 64804 (417) 680 - 7200



CONSULTING ENGINEERS and SURVEYORS
7231 EAST 24th STREET JOPLIN, MISSOURI 64804 (417) 680 - 7200



TYPICAL SIGNING FOR ROAD CLOSURE - LOCAL TRAFFIC ACCESS
NTS