Plot Date: 9/14/2026 1:23:53 PM

LETTING DATE
12/15/2026

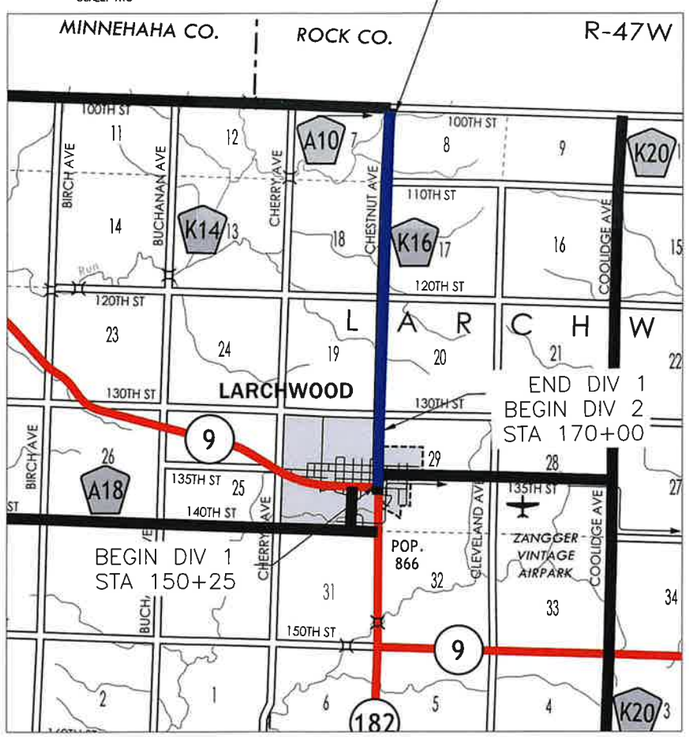
PROJECT NO. STP-S-C060(127)--5E-60
HMA RESURFACING/ COLD-IN-PLACE RECYCLING

LYON COUNTY

INDEX OF SHEETS	105-3 10-18-05
NO.	DESCRIPTION
A SHEETS A.01	TITLE SHEETS TITLE SHEET
B SHEETS B.01–B.03	DETAILS
C SHEETS C.01–C.04	QUANTITIES AND ESTIMATE REFERENCE/ TABULATIONS
D SHEETS D.01–D.07	PLAN SHEETS

N

SCALE: NTS



DGR ENGINEERING

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com

IOWA DOT

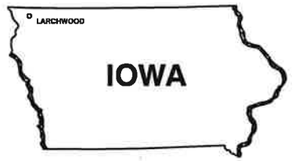
HIGHWAY DIVISION

PLANS OF PROPOSED IMPROVEMENTS ON THE

FARM-TO-MARKET SYSTEM
LYON COUNTY

HMA SURFACING/ COLD IN PLACE RECYCLING ON COUNTY ROAD K16 FROM IOWA HIGHWAY 9 NORTH 3 MILES TO MINNESOTA STATE LINE LARCHWOOD, IA

SCALES: As Noted



TOTAL 15
PROJECT NUMBER
STP-S-C060(127)--5E-60
LYON COUNTY K16
DGR PROJECT NUMBER
374219

MILEAGE SUMMARY			105-1 09-27-94
DIV.	LOCATION	LIN. FT.	MILES
1	CHESTNUT STREET STA 151+25 TO 170+00	1875	0.36
2	CHESTNUT STREET STA 170+00 TO 325+10	15510	2.94

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.15 of the Specifications.

List of Applicable Standard Road Plans located on sheet C.03

04-30-02	101-5
DESIGN DATA URBAN	
2023 AADT	790 V.P.D
AADT	V.P.D
DHV	V.P.D.
TRUCKS	15 %
Total Design ESALS	
Design Speed	55 MPH

UTILITIES CONTACTS:

IOWA ONE CALL: 1-800-292-8989

LYON RURAL ELECTRIC CO-OP, ROCK RAPIDS, IA
712-472-2506
INFO@LYONREC.COOP
DUSTIN TIMMERMAN

LYON-SIOUX RURAL WATER, ROCK RAPIDS, IA
712-472-3755
INFO@LSRWS.COM
DAVE HARMSEN

APPROVED BY CITY OF LARCHWOOD

KEN KERKVLIET

APPROVED BY COUNTY ENGINEER

DARYL ALBERTSON

APPROVED BY BOARD OF SUPERVISORS

STEVE HERMAN

CODY HOEFERT

DOUG VANDEN BOSCH

CORY ALTENA

DENNIS SCHOLTEN

LICENSED PROFESSIONAL ENGINEER
KEVIN E. RANNEY
26831
IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

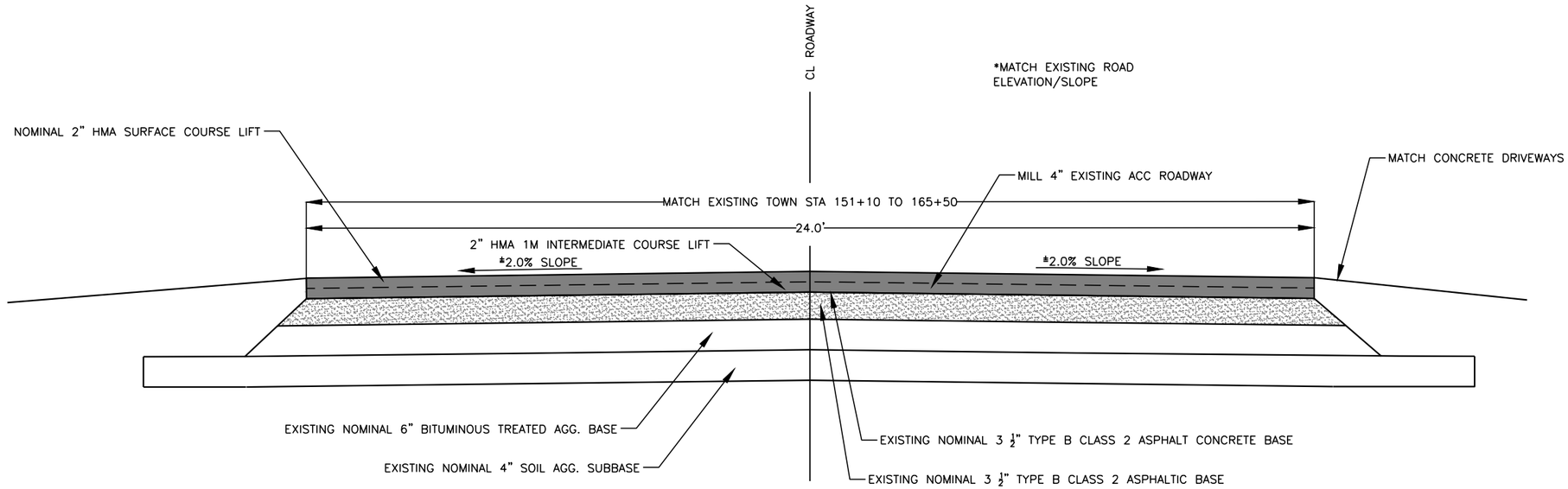
BY _____ DATE 9-10-2026
KEVIN E. RANNEY, P.E. LICENSE NO. 26381

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2027

PAGES OR SHEETS COVERED BY THIS SEAL: ALL SHEETS

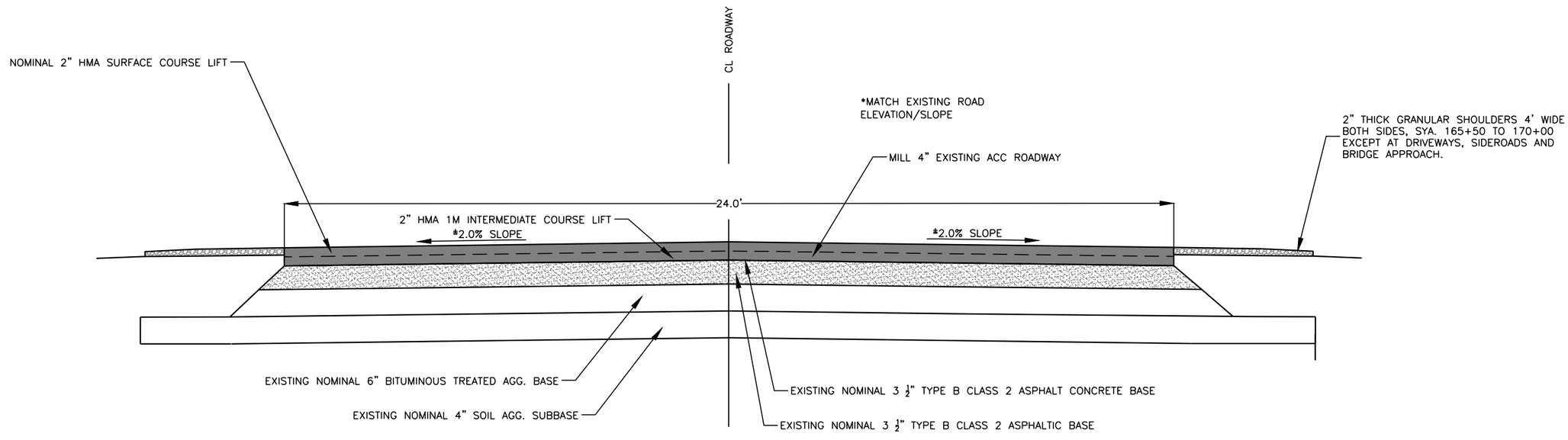
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TYPICAL CROSS SECTION CHESTNUT – DIVISION 1 STA 151+25 – 165+50

NOT TO SCALE



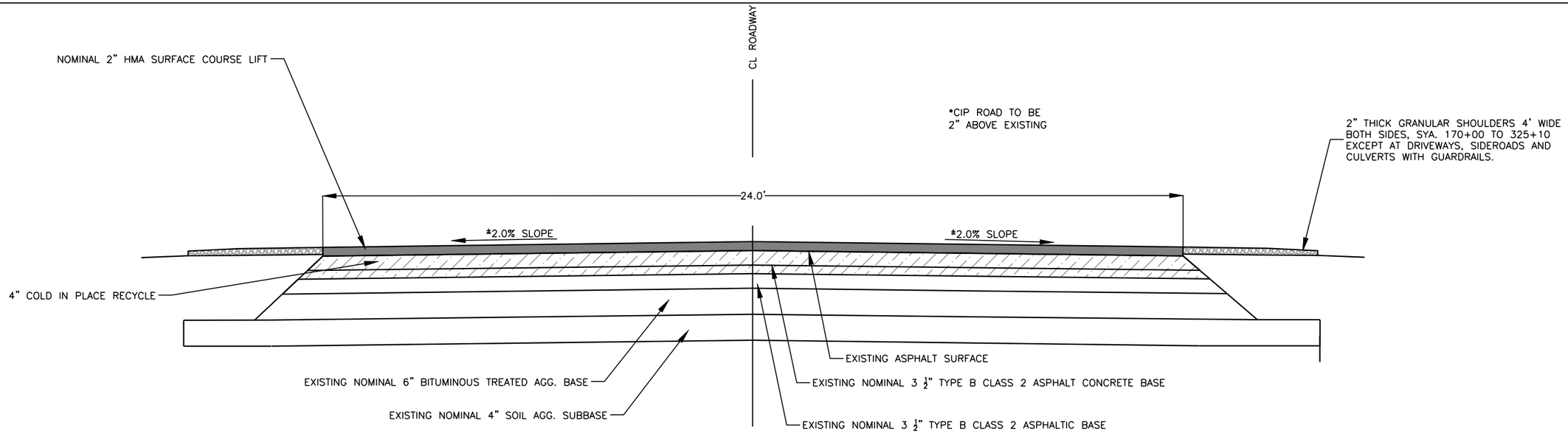
TYPICAL CROSS SECTION K16 – DIVISION 1 STA 165+50–170+00

NOT TO SCALE

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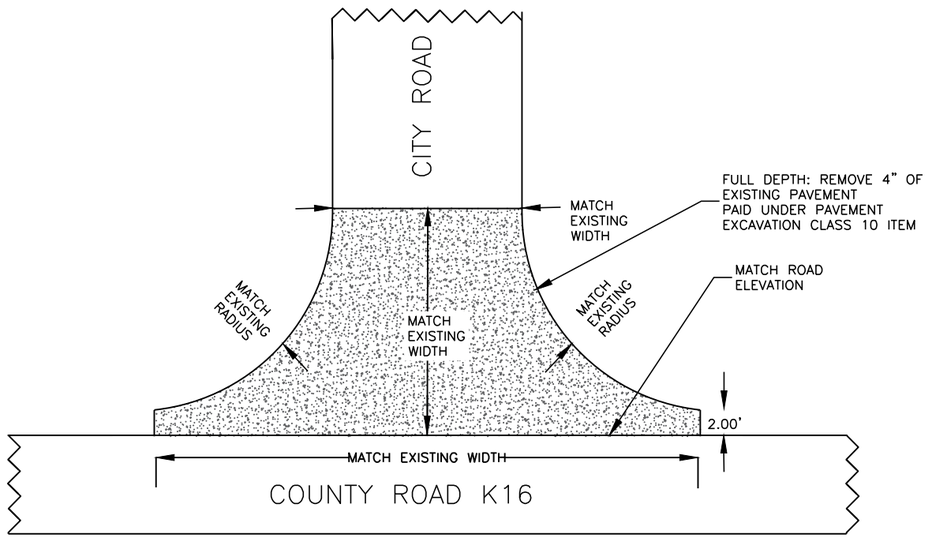
TYPICAL DETAILS SHEET	LYON COUNTY	PROJECT NUMBER	SHEET NO.
		STP-S-C060(127)--5E-60	B.01

Plot Date: 9/15/2026 9:35:25 AM



TYPICAL CROSS SECTION K16 – DIVISION 2 STA 170+00–323+10

NOT TO SCALE

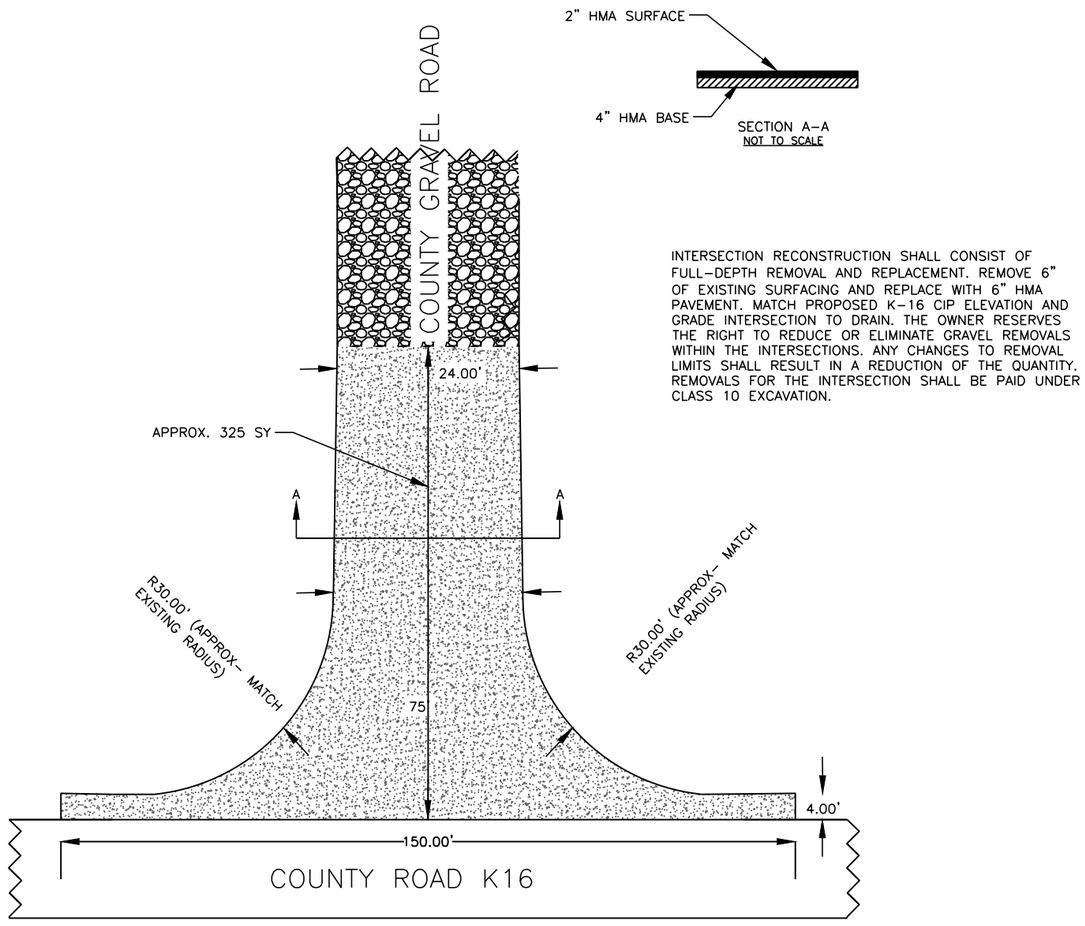


STA:151+25–170+00

CITY ROAD INTERSECTION
TYPICAL FILLET DETAIL–FULL REMOVE AND REPLACE
(SEE SHEET C.03 TABULATIONS FOR LOCATIONS)

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Plot Date: 9/15/2026 9:35:25 AM



INTERSECTION RECONSTRUCTION SHALL CONSIST OF FULL–DEPTH REMOVAL AND REPLACEMENT. REMOVE 6" OF EXISTING SURFACING AND REPLACE WITH 6" HMA PAVEMENT. MATCH PROPOSED K–16 CIP ELEVATION AND GRADE INTERSECTION TO DRAIN. THE OWNER RESERVES THE RIGHT TO REDUCE OR ELIMINATE GRAVEL REMOVALS WITHIN THE INTERSECTIONS. ANY CHANGES TO REMOVAL LIMITS SHALL RESULT IN A REDUCTION OF THE QUANTITY. REMOVALS FOR THE INTERSECTION SHALL BE PAID UNDER CLASS 10 EXCAVATION.

GRAVEL ROAD INTERSECTION
TYPICAL FILLET DETAIL–FULL REMOVE AND REPLACE
(SEE SHEET C.03 TABULATIONS FOR LOCATIONS)

STA:170+00–325+50

NOT TO SCALE

P:\03\074\219\DWG\374219_TITLE.DWG

TYPICAL DETAILS SHEET

LYON COUNTY

PROJECT NUMBER

STP-S-C060(127)--5E-60

SHEET NO.

B.03

Plot Date: 9/22/2026 1:33:34 PM

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNITS	DIVISION 1 66% COUNTY 33% CITY	DIVISION 2 100% COUNTY	TOTAL	AS BUILT
1.	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	SY	150	1,600	1,750	
2.	2121-7425020	GRANULAR SHOULDERS, TYPE B (CLASS A CRUSHED STONE)	TON	10	2,900	2,910	
3.	2212-0475095	CLEANING AND PREPERATION OF BASE	MILE	0.36	2.94	3.30	
4.	2213-7100400	RELOCATION OF MAIL BOXES	EACH	-	12	12	
5.	2214-5145150	PAVEMENT SCARIFICATION, NOMINAL THICKNESS	SY	5,800	2,275	8,075	
6.	2214-7450050	BLADING AND SHAPING SHOULDER MATERIAL	STA	-	155	155	
7.	2303-1033504	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-4	TON	1,090	5,125	6,215	
8.	2303-1258284	ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC	TON	66	310	376	
9.	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LS	-	1	1	
10.	2303-7000610	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE LABORATORY VOIDS (FORMULA - BY PAY FACTOR)	EACH	1,090	5,125	6,215	
11.	2303-7000620	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE FIELD VOIDS (FORMULA - BY PAY FACTOR)	EACH	1,090	5,125	6,215	
12.	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	TON	-	40	40	
13.	2317-7000120	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	1,217	9,935	11,152	
14.	2318-1001100	COLD IN-PLACE RECYCLED ASPHALT PAVEMENT	SY	-	41,360	41,360	
15.	2318-1001220	ASPHALT STABILIZING AGENT (FOAMED ASPHALT)	TON	-	182	182	
16.	2526-8285040	CONSTRUCTION SURVEY-LOCATION SURVEY	LS	-	1	1	
17.	2527-9263209	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	35	311	346	
18.	2527-9263209	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED (TEMPORARY)	STA	35	311	346	
19.	2528-2518000	SAFETY CLOSURE	EACH	1	10	11	
20.	2528-8445110	TRAFFIC CONTROL	LS	0.20	0.80	1	
21.	2528-8445113	FLAGGERS	EACH	20	30	50	
22.	2528-8445115	PILOT CARS	EACH	3	15	18	
23.	2533-4980005	MOBILIZATION	LS	-	1	1	
24.	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA	5	155	160	
25.	2548-0000310	MILLED CENTERLINE RUMBLE STRIPS, HMA SURFACE	STA	5	155	160	

GENERAL NOTES:

A PRE-CONSTRUCTION CONFERENCE WITH THE SUCCESSFUL BIDDER WILL BE HELD NOT LESS THAN TWO WEEKS BEFORE STARTING THE PROJECT AND SHALL INCLUDE THE CONTRACTORS JOB SUPERINTENDENT.

CONTRACTOR TO FURNISH, ERECT, AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL SIGNS ON A 24 HOUR, 7 DAY WEEK BASIS DURING CONSTRUCTION OF THE PROJECT. CONSTRUCTION WILL BE SUSPENDED IN THE EVENT THAT ANY OF THE REQUIRED LEGIBLE TRAFFIC CONTROL SIGNS ARE NOT IN PLACE AND WILL REMAIN SUSPENDED UNTIL SUCH DEFICIENCY IS CORRECTED.

ANY RUBBLE, DEBRIS, JOINT SEALANT, ASPHALT BINDER OR ANY OTHER MATERIAL GENERATED BY REMOVAL AND/OR CONSTRUCTION OPERATIONS SHALL BE CLEANED UP AND DISPOSED OF BY THE CONTRACTOR IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS.

ANY VERTICAL SURFACE MILLED GREATER THAN 1" SHALL HAVE A TEMPORARY WEDGE CONSTRUCTED TO MINIMIZE THE BUMP AND SHALL BE SIGNED WITH BUMP SIGNS IN BOTH DIRECTIONS.

ONLY PAVED ROADS SHALL BE CONSIDERED AS HAUL ROADS. TRUCKS WILL NOT BE PERMITTED TO HAUL THROUGH CITY CORPORATION LIMITS, UNLESS TRAVELING OF PRIMARY ROADS.

ESTIMATE REFERENCE INFORMATION:

1. EXCAVATION CLASS 10 SHALL INCLUDE REMOVING 4" OF GRAVEL ON SIDEBOARDS. PAYMENT SHALL INCLUDE EXCAVATION HAULING AND DISPOSING OF MATERIAL AT SPECIFIED LOCATIONS IN THE PLANS.

2. GRANULAR SHOULDER MATERIAL SHALL BE A MATERIAL LISTED IN STANDARD SPECIFICATION 2121.02. WIDTHS AS SHOWN IN THE TYPICAL SECTION. PRIOR TO SUSPENDING OPERATIONS FOR EACH DAYS RESURFACING OF THE SURFACE MIX, A FILLET OF GRANULAR MATERIAL MEETING STANDARD SPECIFICATIONS SHALL BE PLACED ADJACENT TO AND EQUAL IN THICKNESS TO THE RESURFACING, DRIVEWAYS, AND FIELD ENTRANCES. THE MINIMUM WIDTH OF THE FILLET SHALL BE 2 FOOT FOR EACH NOMINAL INCH OF TOTAL HMA RESURFACING COMPLETED. QUANTITY INCLUDES GRANULAR MATERIAL PLACED AT DRIVEWAYS AND FIELD ENTRANCES.

4. CONTRACTOR SHALL REMOVE EXISTING MAIL BOXES AND RELOCATE TO A TEMPORARY LOCATION APPROVED BY THE UNITED STATES POSTAL SERVICE PRIOR TO CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE THE RELOCATED MAIL BOXES AND REINSTALL BACK TO THE EXISTING LOCATION IN ACCORDANCE WITH UNITED STATE POSTAL SERVICE REQUIREMENTS. THE ENGINEER SHALL COUNT THE NUMBER OF MAIL BOXES SUCCESSFULLY REMOVED, RELOCATED, AND REINSTALLED. THE CONTRACTOR SHALL BE PAID THE CONTRACT UNIT PRICE PER EACH. THIS PAYMENT SHALL BE CONSIDERED FULL COMPENSATION FOR ALL EQUIPMENT, TOOLS, LABOR AND MATERIALS NECESSARY TO REMOVE, RELOCATE, AND REINSTALL THE MAILBOXES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IF RELOCATION OF THE MAILBOXES IS UNNECESSARY THIS BID ITEM WILL BE REMOVED.

5. SEE PAVEMENT SCARIFICATION TABULATION AND ON PLAN SHEETS. THE CONTRACTING AUTHORITY WILL MARK THE AREAS TO BE MILLED. THIS ITEM INCLUDES ALL MILLED HEADERS FOR BUTT JOINTS AT PROJECT TERMINI AND INTERSECTING PAVED STREETS AND DRIVEWAYS. PAVEMENT SCARIFICATION AT EXISTING PAVED DRIVEWAYS SHALL BE COMPLETED AFTER PLACEMENT OF THE MAINLINE HMA SURFACE LIFT AND LOCATION SHALL BE MARKED BY THE CONTRACTING AUTHORITY IN CONSULTATION WITH THE CONTRACTOR. MAINTAINING ACCESS TO DRIVEWAYS DURING MILLING AND PRIOR TO PAVING SHALL BE INCIDENTAL TO THIS ITEM. TEMPORARY MATERIAL PLACED FOR ACCESS WILL NOT BE MEASURED FOR PAYMENT

6. THIS ITEM INCLUDES ALL WORK REQUIRED TO PREPARE THE EXISTING SHOULDER FOR COLD IN-PLACE RECYCLING OPERATIONS AND SHOULDER SURFACING, SEE TYPICAL SECTION ON SHEET B.01.

7. THIS ITEM INCLUDES ALL HMA ½" STANDARD TRAFFIC MIX. CLASS 1 C COMPACTION. MAXIMUM AGGREGATE SIZE: ½". DENSITY USED IN COMPUTATIONS OF QUANTITIES: 145 LBS/CU.FT. QUANTITIES HAVE BEEN INCREASED 8% FOR IRREGULARITIES IN SUBBASE, MAILBOX TURNOUTS AND DRIVEWAY WEDGES PLACED IN ALL DRIVEWAYS, FIELD ENTRANCES AND INTERSECTIONS. SEE NOTE ON SHEET B.01 AND DETAILS ON SHEET B.02 FOR DETAILS AND DIMENSIONS OF PLACEMENT. THIS ITEM INCLUDES ALL SIDE ROAD FILLETS TO EXISTING COUNTY GRAVEL ROADS AND MAINLINE PAVING. CERTIFIED PLANT INSPECTION SHALL APPLY TO ASPHALT BASE, LEVELING, STRENGTHENING, BINDER, AND SURFACE COURSES ON THIS PROJECT. PWL SHALL APPLY.

8. PERFORMANCE GRADE ASPHALT BINDER: PG 58-28H. QUANTITY CALCULATED AS 6% OF TOTAL HMA QUANTITY FOR ITEMS 6 AND 7.

9. THIS ITEM INCLUDES CORING AND TRANSPORTING TO PLANT SITE AND TRANSPORTING CORES, HMA MIX SAMPLES AND AB SAMPLES TO DISTRICT LAB.

12. DRIVEWAY ENTRANCE MATERIAL SHALL BE CLASS "A" CRUSHED STONE. ENTRANCE WIDTHS SHALL BE 4' DEPTH SHALL BE 2".

14-15. THE EXISTING ASPHALT AND SHOULDER MATERIAL SHALL BE RECYCLED TO A DEPTH OF 4 INCHES AND PLACED 24' WIDE FROM 151+25 TO 325+10. ASPHALT STABILIZING AGENT CALCULATED WITH A 4" COMPACTED THICKNESS FOR THE 24' WIDTH. THE ASPHALT STABILIZING AGENT IS CALCULATED AT 0.0011 TON/SY/IN OF RECYCLED PAVEMENT.

16. CONSTRUCTION SURVEY- LOCATION SURVEY: SHALL INCLUDE BUT IT NOT LIMITED TO PROJECT CONTROL, GRADING, PAVING, AND CENTERLINE STAKING. THIS ITEM DOES NOT INCLUDE MONUMENT PRESERVATION AND REPLACEMENT. AT THE CONTRACTORS REQUEST CONTROL POINTS AND CENTERLINE FILE SHALL BE PROVIDED.

17-18. TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AND SHALL BE PLACED DAILY. THE ENGINEER RESERVES THE RIGHT TO REMOVE TEMPORARY PAVEMENT MARKINGS. TEMPORARY PAVEMENT MARKINGS QUANTITIES WILL BE REDUCED IN THE EVENT THE ENGINEER OPTS TO REMOVE THEM FROM THE PROJECT. SEE SHEET C.03 AND C.04 FOR APPLICABLE ROAD STANDARDS AND PAVEMENT MARKING LOCATIONS AND DETAILS.

19-22. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS FOR MAINTAINING THROUGH TRAFFIC DURING CONSTRUCTION. FLAGGERS AND PILOT CARS SHALL BE USED FOR BOTH COLD-IN-PLACE AND PAVING OPERATIONS. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST IOWA DOT STANDARD ROAD PLANS INCLUDING BUT NOT LIMITED TO TC-213 LANE CLOSURE WITH FLAGGERS, TC-214 LANE CLOSURE WITH FLAGGERS AND PILOT CAR, AND TC-282 UNEVEN LANES.

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NOTCHES AND RUNOUTS FOR RESURFACING

Refer to PR-201 and PR-202.

(1) Bid item. Applies only to Types 'N1' and 'N3' on PR-202. Refer to 100-25 for remaining values.

This Data Entry Sheet fills Tab 102-16 effective 10-21-14

Location Station	Type of Notch or Runout	S	I	DI	Runout Length			L	M	Pavement Width ('N1' or 'N3' only)	Pavement (1) Scarification	Remarks
					Course Thickness	Posted Speed Limit	Runout Ratio					
		IN	IN	IN	IN	MPH	FT/IN	FT	IN	FT	SY	
170+00	Type 'N1'	2.0			2.0	Over 40	50.0	200.0	2.0	26.0	577.8	DIVISION 1
323+10	Type 'N1'	2.0			2.0	Over 40	50.0	200.0	2.0	26.0	1600.0	DIVISION 2

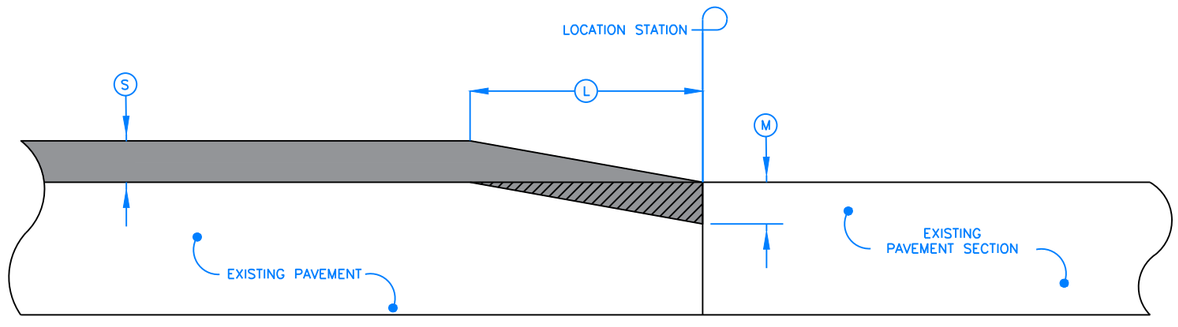
MILLED RUMBLE STRIPS

See PV-12 and PV-13.

* Calculated at 18" width for Shoulder.

This Data Entry Sheet fills Tab 112-10 effective 10-20-20

Road Identification	Location		Installation Length		Shoulder Pavement Type	Rumble Strip Type (Centerline, Rt or Lt Shoulder)	L	Installation Length		Area	Area	Fog Seal* (Milled Rumble Strip)	Effective Shoulder Width			Remarks
	Station to Station							PCC	HMA			Shoulder	PCC Paved	HMA Paved	Granular\ Earth	
			FT	STA			IN	STA	STA	SF	SY	GAL	FT	FT	FT	
K16	165+50.00	170+00.00	450.0	4.50	HMA	Left Shoulder			4.50	675	75.0	4.9				DIV 1
K16	165+00.00	170+00.00	500.0	5.00	HMA	Right Shoulder			5.00	750	83.3	5.5				DIV 1
K16	165+50.00	170+00.00	450.0	4.50	HMA	Centerline			4.50			0.0				DIV 1
K16	170+00.00	326+50.00	15650.0	156.50	HMA	Left Shoulder			156.50	23475	2608.3	169.6				DIV 2
K16	170+00.00	326+50.00	15650.0	156.50	HMA	Right Shoulder			156.50	23475	2608.3	169.6				DIV 2
K16	170+00.00	326+50.00	15650.0	156.50	HMA	Centerline			156.50			0.0				DIV 2



TYPE 'N1'
SURFACE NOTCH FOR
SINGLE COURSE RESURFACING

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DIV 2 GRANULAR FIELD DRIVEWAY LOCATION TABULATION		
LOCATION	SIDE	NOTE
171+57	LEFT	
180+08	RIGHT	
188+95	LEFT	
198+43	RIGHT	
203+21	LEFT	
203+21	RIGHT	
211+95	LEFT	
225+60	RIGHT	
245+12	RIGHT	
248+54	LEFT	
255+35	LEFT	
257+43	RIGHT	
264+44	LEFT	
273+24	RIGHT	
290+90	LEFT	
295+95	LEFT	
296+41	LEFT	
307+92	LEFT	
311+34	RIGHT	
318+86	LEFT	

DIV 2 ASPHALT DRIVEWAY LOCATION TABULATION		
LOCATION	SIDE	NOTE
174+20	LEFT	ACREAGE
175+22	LEFT	ACREAGE
177+46	LEFT	ACREAGE
187+24	RIGHT	ACREAGE
215+96	RIGHT	ACREAGE
221+25	LEFT	ACREAGE
269+76	LEFT	CATTLE YARD
270+34	RIGHT	ACREAGE
271+76	RIGHT	ACREAGE
274+13	LEFT	ACREAGE
284+37	LEFT	HOG BARN
308+14	RIGHT	ACREAGE

DIV 2 K16 MAILBOX RELOCATION TABULATION			
LOCATION	SIDE	COUNT	TOTAL
175+49	LEFT	1	1
221+50	LEFT	1	1
271+57	LEFT	2	2
274+55	LEFT	1	1
308+22	LEFT	1	1

NOTE: IF THE CONTRACTOR CAN PERFORM WORK WITHOUT DISTURBING MAILBOXES, THESE ITEMS WILL BE REMOVED FROM THE PROJECT

NOTE: FIELD DRIVE AND DRIVEWAY LOCATIONS TABULATIONS ARE FOR TRACKING PURPOSES. QUANTITIES HAVE BEEN ACCOUNTED FOR IN THE ESTIMATE REFERENCE ON SHEET C.01 AS AN 8% INCREASE TO HMA QUANTITIES

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

This Data Entry Sheet fills Tab 105-4 effective 10-18-11

Number	Date	Title
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-214	4-18-23	Lane Closure With Flaggers For Use With Pilot Car
TC-233	10-17-17	Pavement Marking Operations Two-Lane
TC-251	4-18-23	Temporary Road Closure
TC-252	10-21-25	Routes Closed To Traffic
TC-282	10-15-19	Uneven Lanes
TC-283	4-18-23	Surveying Operations
PM-110	4-16-24	Line Types
PR-201	4-21-26	Runouts For Resurfacing
PR-202	10-21-14	Notches For Resurfacing
PV-12	10-20-20	Milled Shoulder Rumble Strips
PV-13	4-16-24	Milled Centerline Rumble Strips

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PAVEMENT MARKING NOTES:

PAINTED PAVEMENT MARKING QUANTITIES ARE SHOWN IN STATIONS. CENTERLINE SKIP (YELLOW) QUANTITIES HAVE BEEN ADJUSTED TO REMOVE UNPAINTED SPACES FROM THE QUANTITIES SHOWN.

TWO GUN SYSTEM SHALL BE USED TO PAINT PAVEMENT MARKINGS.

PAINTED PAVEMENT MARKINGS DAMAGED WHILE WET DUE TO INSUFFICIENT OR DEFICIENT TRAFFIC CONTROL MEASURES OR CONTRACTORS OPERATION SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE AT THE DIRECTION OF THE ENGINEER.

TRAFFIC PAINT SHALL MEET REQUIREMENTS OF SECTION 4183 FOR FAST DRY PAINT AND BE APPLIED IN COMPLIANCE WITH SECTION 2527 OF STANDARD SPECIFICATIONS.

PAVEMENT MARKING LINE TYPES

See PM-110

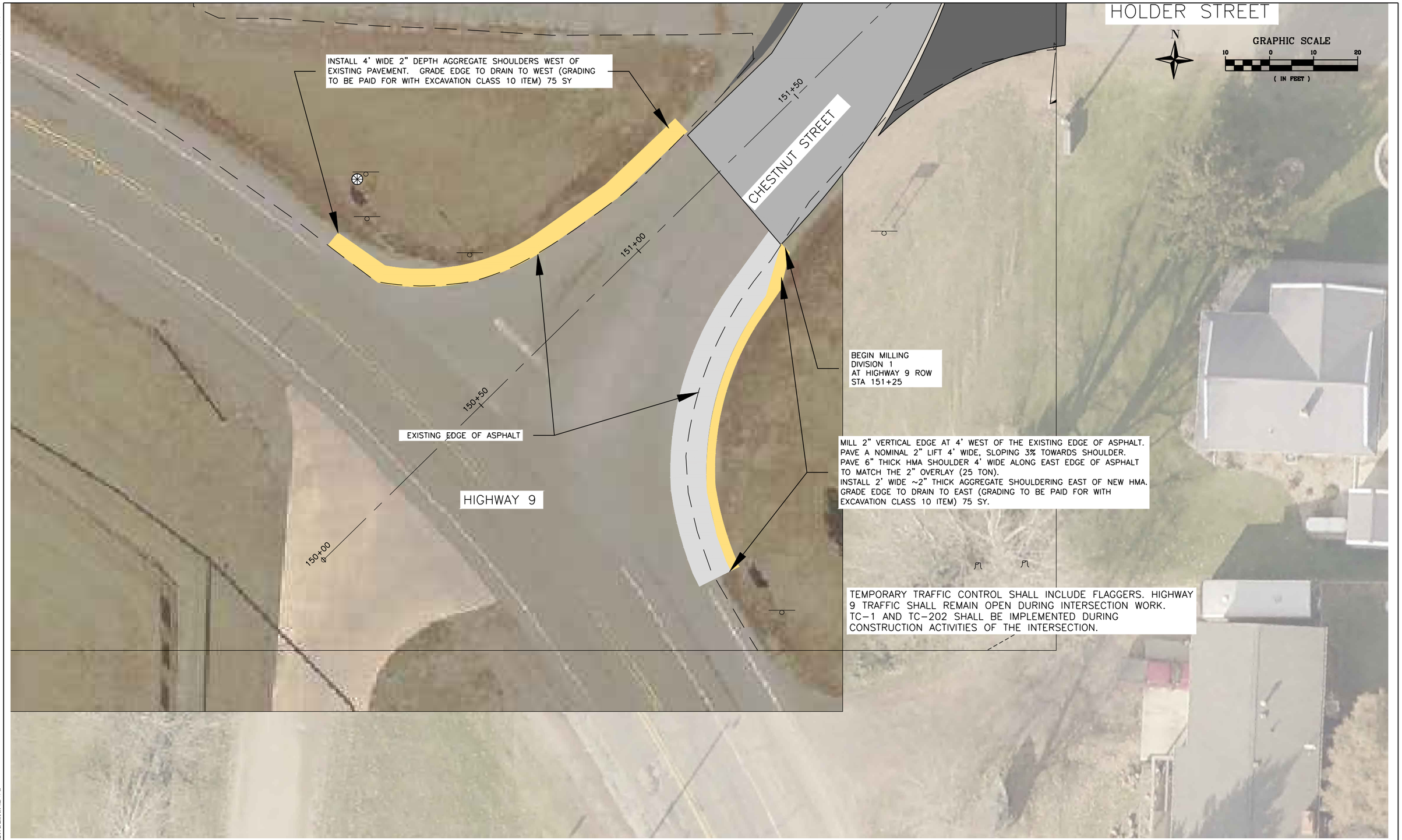
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

This Data Entry Sheet fills Tab 108-22 effective 04-16-13

BCY4: Broken Centerline (Yellow) @ 0.17 DCY4: Double Centerline (Yellow) @ 1.34 NPY4: No Passing Zone Line (Yellow) @ 0.84 BLW4: Broken Lane Line (White) @ 0.17 ELW4: Edge Line Right (White) @ 0.67
ELY4: Edge Line Left (Yellow) @ 0.67

Location									Length by Line Type (Unfactored)														Remarks
Road ID	Station to Station		Length (STA)	Dir. of Travel	Marking Type	Side			BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4									
						L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
K-16 (S TO N)	151+25.00	154+90.00	3.65	NB							3.65												Division 1
K-16 (S TO N)	155+50.00	158+00.00	2.50	NB							2.50												Division 1
K-16 (S TO N)	159+00.00	161+50.00	2.50	NB							2.50												Division 1
K-16 (S TO N)	162+20.00	164+65.00	2.45	NB							2.45												Division 1
K-16 (S TO N)	165+30.00	170+00.00	4.70	NB							4.70												Division 1
K-16 (S TO N)	170+00.00	171+35.00	1.35	NB							1.35												
K-16 (S TO N)	171+35.00	179+45.00	8.10	NB		x					8.10												
K-16 (S TO N)	179+45.00	187+50.00	8.05	NB				x			5.70												
K-16 (S TO N)	187+50.00	188+75.00	1.25	NB					1.25														
K-16 (S TO N)	188+75.00	196+30.00	7.55	NB				X			7.55												
K-16 (S TO N)	196+30.00	197+30.00	1.00	NB						1.00													
K-16 (S TO N)	197+30.00	215+60.00	18.30	NB		X					18.30												
K-16 (S TO N)	215+60.00	224+75.00	9.15	NB					9.15														
K-16 (S TO N)	224+75.00	234+25.00	9.50	NB		x					9.50												
K-16 (S TO N)	234+25.00	235+25.00	1.00	NB						1.00													
K-16 (S TO N)	235+25.00	244+45.00	9.20	NB				x			9.20												
K-16 (S TO N)	244+45.00	248+25.00	3.80	NB					3.80														
K-16 (S TO N)	248+25.00	255+25.00	7.00	NB		x					7.00												
K-16 (S TO N)	255+25.00	258+75.00	3.50	NB					3.50														
K-16 (S TO N)	258+75.00	263+00.00	4.25	NB				x			4.25												
K-16 (S TO N)	263+00.00	266+00.00	3.00	NB						3.00													
K-16 (S TO N)	266+00.00	275+25.00	9.25	NB		x					9.25												
K-16 (S TO N)	275+25.00	278+00.00	2.75	NB				x	2.75														
K-16 (S TO N)	278+00.00	279+00.00	1.00	NB						1.00													
K-16 (S TO N)	279+00.00	280+25.00	1.25	NB		X					1.25												
K-16 (S TO N)	280+25.00	282+50.00	2.25	NB					2.25		6.20												
K-16 (S TO N)	282+50.00	293+15.00	10.65	NB				x			10.65												
K-16 (S TO N)	293+15.00	318+75.00	25.60	NB					25.60														
K-16 (S TO N)	318+75.00	325+00.00	6.25	NB						6.25													
K-16 (S TO N)	151+25.00	151+65.00	0.40	NB									0.40										Division 1
K-16 (S TO N)	152+20.00	154+90.00	2.70	NB									2.70										Division 1
K-16 (S TO N)	155+50.00	158+00.00	2.50	NB									2.50										Division 1
K-16 (S TO N)	159+00.00	161+50.00	2.50	NB									2.50										Division 1
K-16 (S TO N)	162+15.00	170+00.00	7.85	NB									7.85										Division 1
K-16 (S TO N)	170+00.00	184+65.00	14.65	NB									14.65										
K-16 (S TO N)	185+50.00	238+00.00	52.50	NB									52.20										
K-16 (S TO N)	239+00.00	290+75.00	51.75	NB									51.75										
K-16 (S TO N)	291+75.00	325+00.00	33.25	NB									33.25										
K-16 (S TO N)	325+00.00	239+00.00	86.00	SB									86.00										
K-16 (S TO N)	238+00.00	185+50.00	52.50	SB									52.50										
K-16 (S TO N)	184+65.00	170+00.00	14.65	SB									14.65										
K-16 (S TO N)	170+00.00	165+30.00	4.70	SB									4.70										Division 1
K-16 (S TO N)	164+65.00	162+15.00	2.50	SB									2.50										Division 1
K-16 (S TO N)	161+50.00	158+90.00	2.60	SB									2.60										Division 1
K-16 (S TO N)	158+20.00	155+50.00	2.70	SB									2.70										Division 1
K-16 (S TO N)	154+90.00	151+25.00	3.65	SB									3.65										Division 1
		TOTAL	508.20						8.21	16.42	95.84		225.86		TOTAL	346.33								

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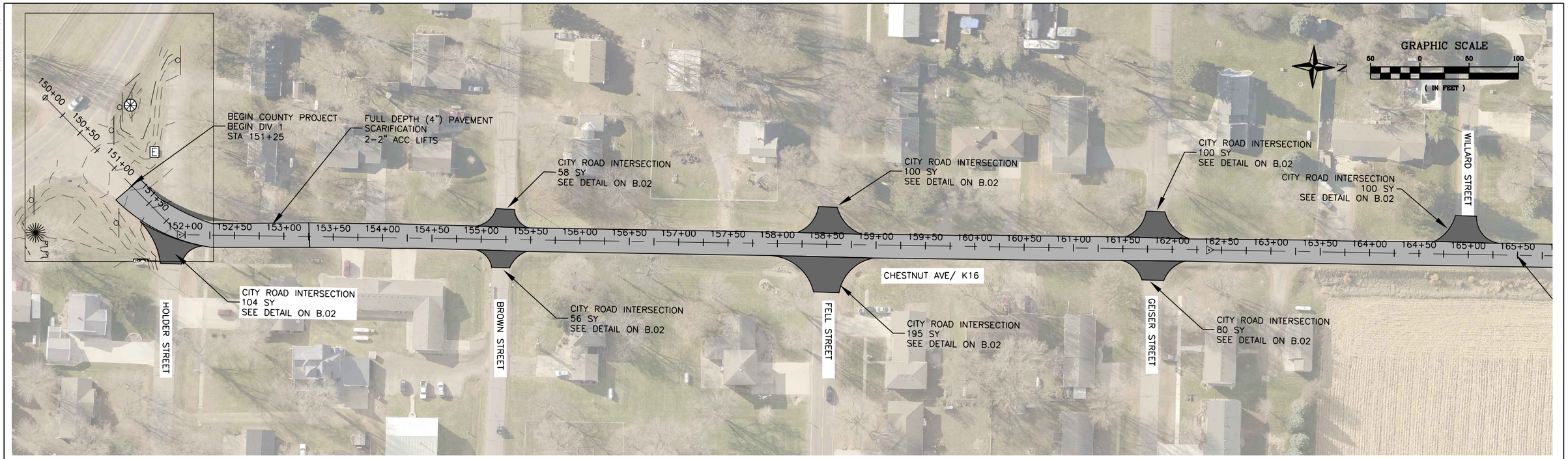
Project Manager: GTK
Designer: KER
Project Number: 374219
Phone: (712) 472-2531

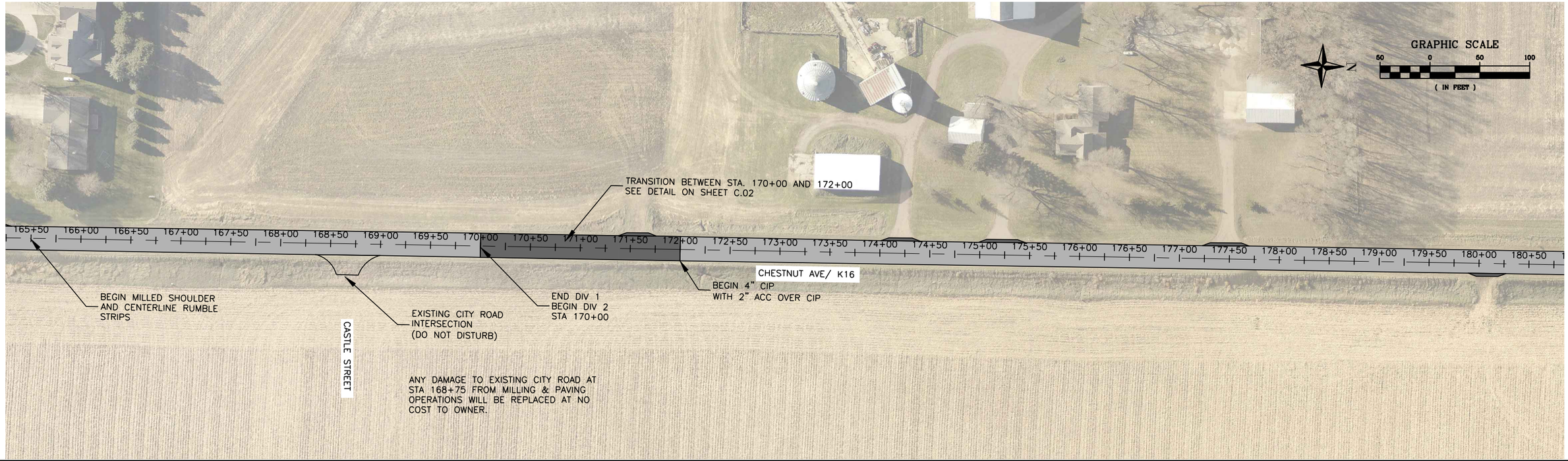
2026 PROJECT IMPROVEMENTS
LARCHWOOD, IOWA

CHESTNUT STREET/ HIGHWAY 9 INTERSECTION
LYON COUNTY STP-S-060(127)--5E-60

SHEET D.01

Plot Date: 9/15/2026 8:25:58 AM





REV	DATE	DESCRIPTION

DGR ENGINEERING

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Designer: KER
Project Number: 374219
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2026 PROJECT IMPROVEMENTS LARCHWOOD, IOWA

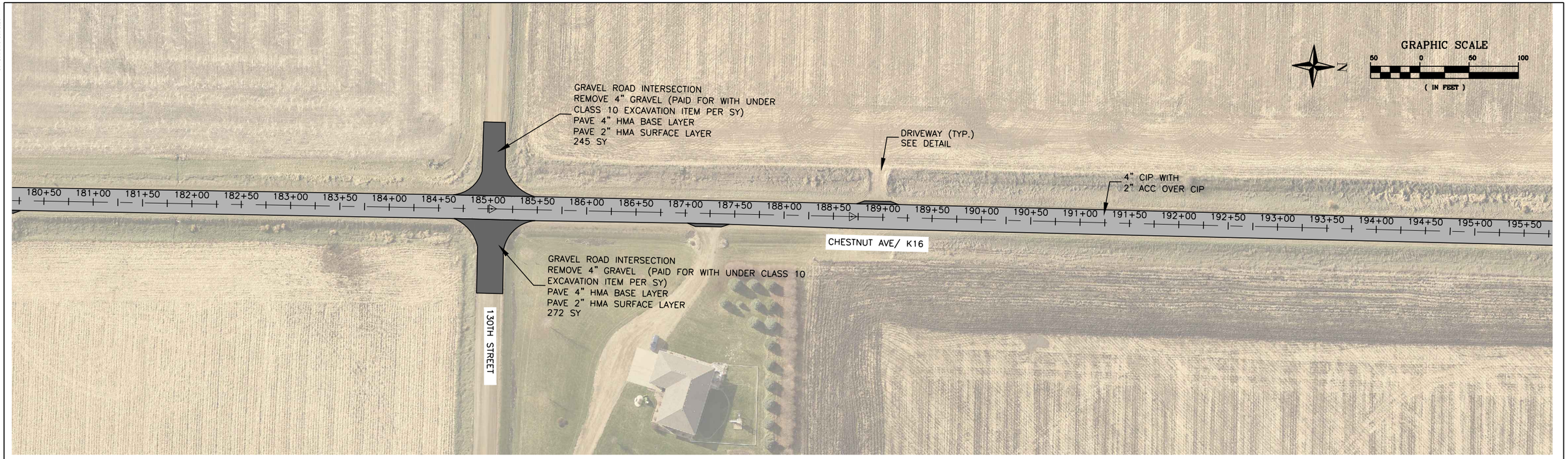
PLAN VIEW

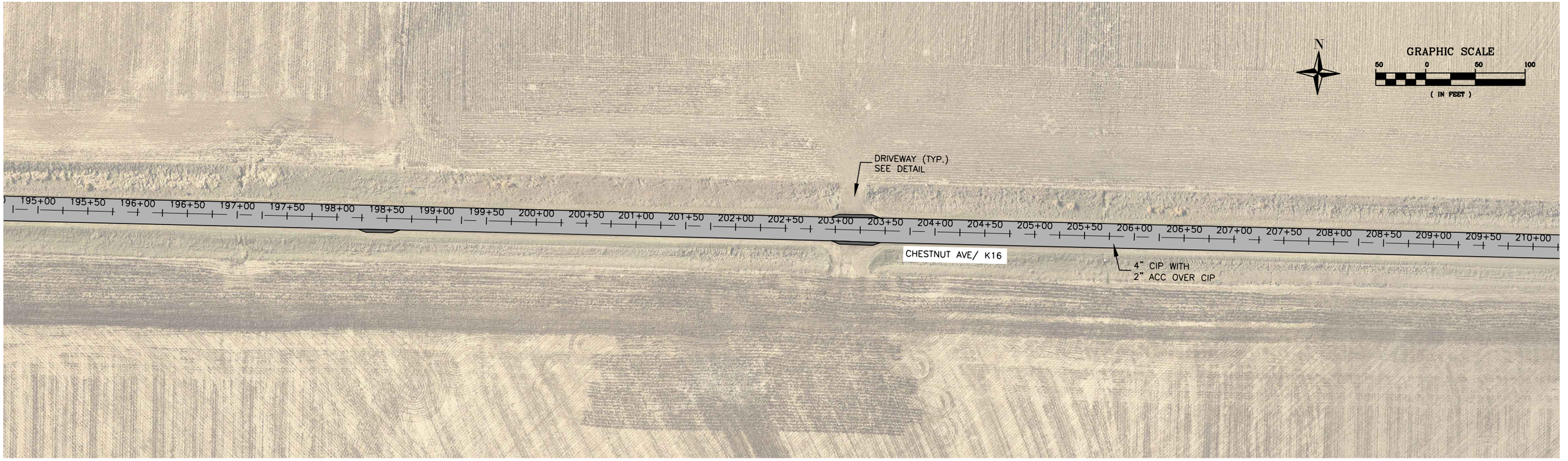
LYON COUNTY STP-S-060(127)--5E-60

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Plot Date: 9/15/2026 8:26:59 AM





REV	DATE	DESCRIPTION

DGR ENGINEERING

Project Manager: GTK
Designer: KER
Project Number: 374219
Phone: (712) 472-2531

2026 PROJECT IMPROVEMENTS LARCHWOOD, IOWA

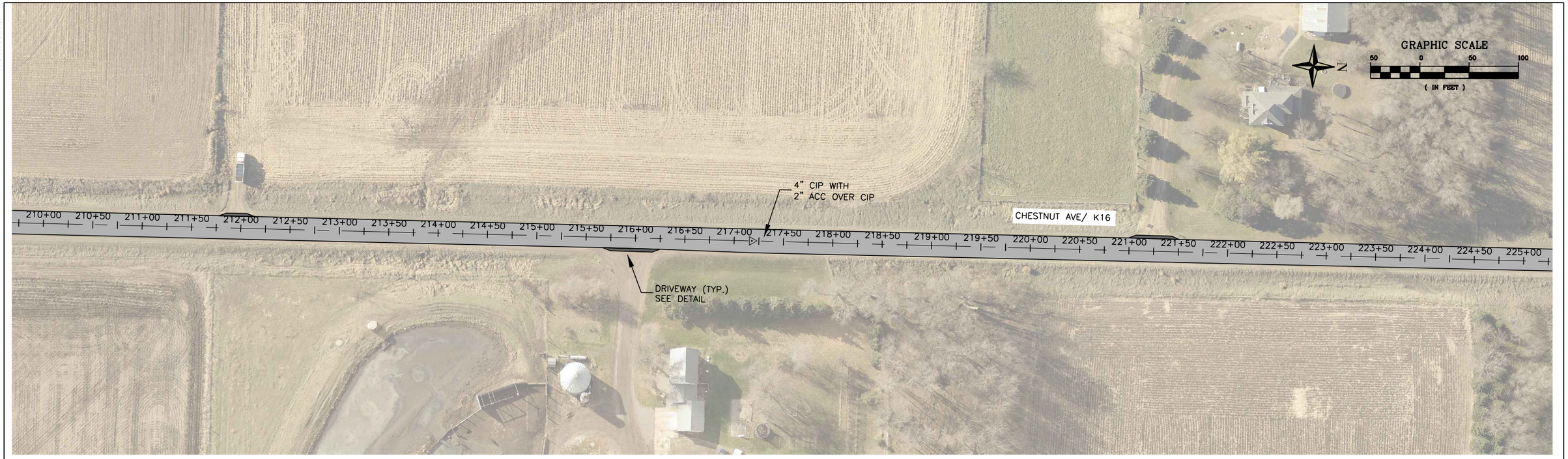
PLAN VIEW

LYON COUNTY STP-S-060(127)--5E-60

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Plot Date: 9/15/2026 8:28:07 AM





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REV	DATE	DESCRIPTION

DGR ENGINEERING

Project Manager: GTK
Designer: KER
Project Number: 374219
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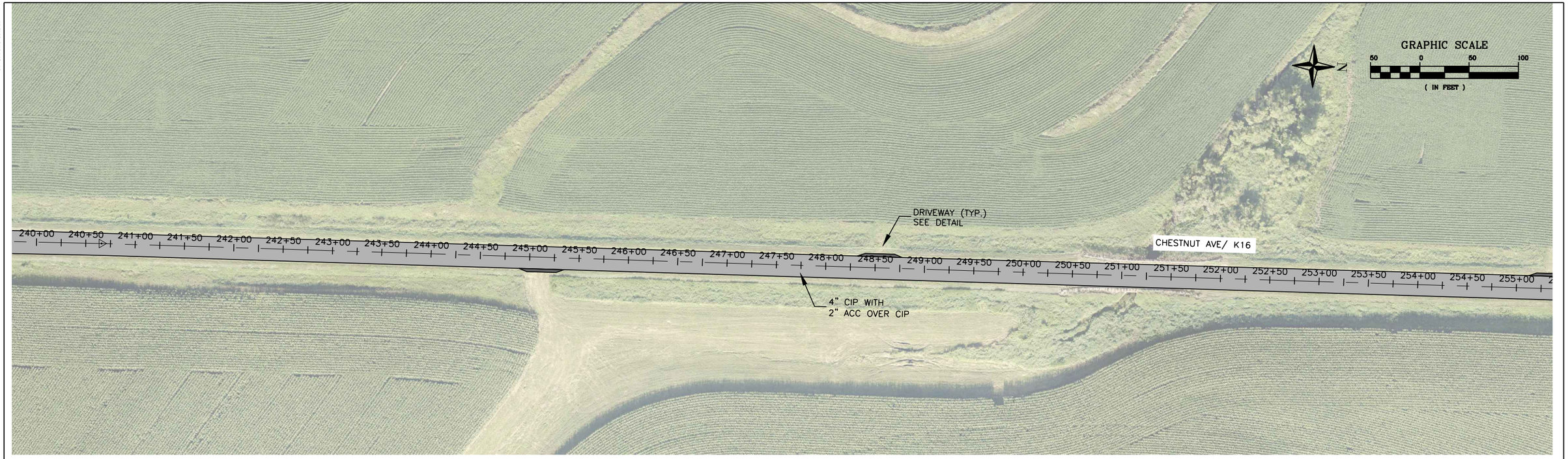
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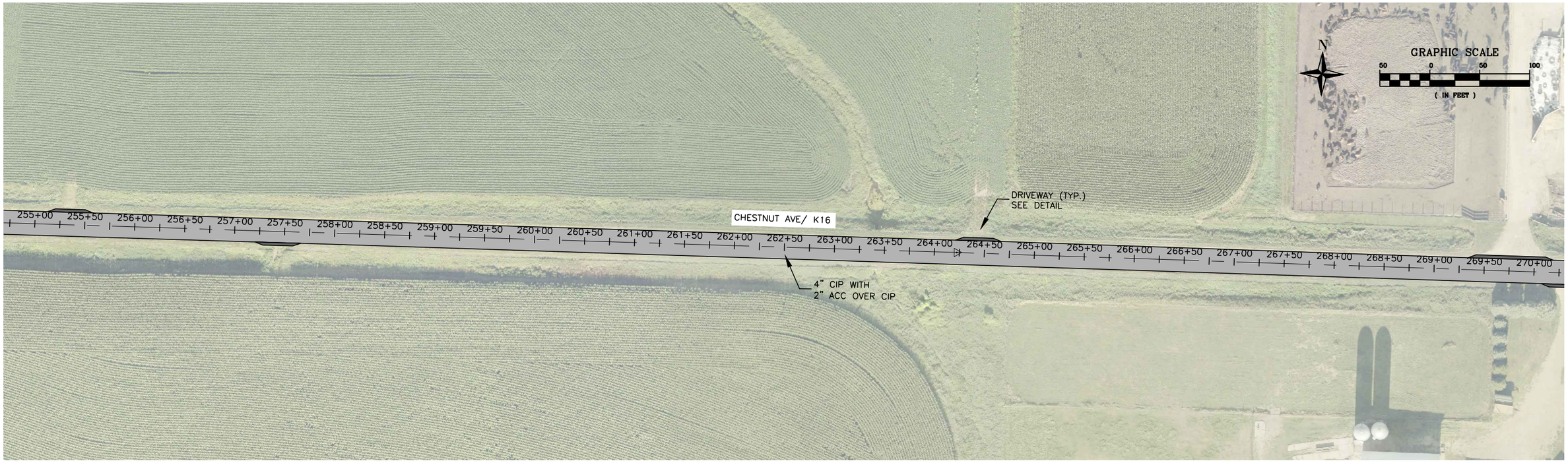
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LYON COUNTY STP-S-060(127)--5E-60

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REV	DATE	DESCRIPTION

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Designer: KER
Project Number: 374219
Phone: (712) 472-2531

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PLAN VIEW

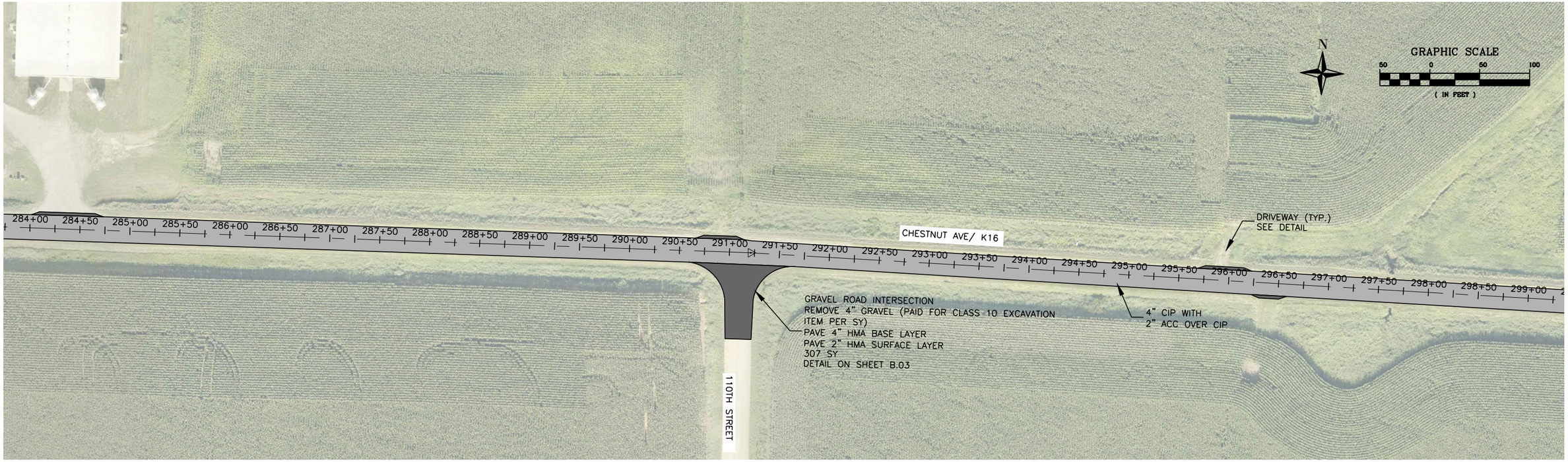
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Plot Date: 9/15/2026 8:30:22 AM





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Phone: (712) 472-2531

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PLAN VIEW

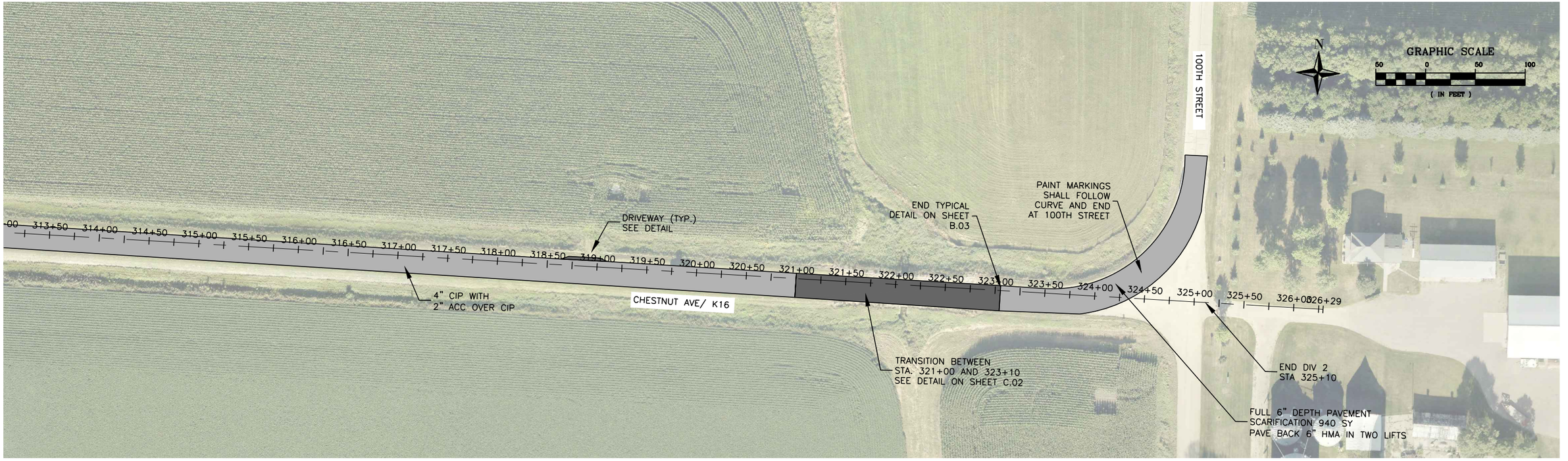
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REV	DATE	DESCRIPTION

DGR ENGINEERING

Project Manager: GTK
Designer: KER
Project Number: 374219
Phone: (712) 472-2531

2026 PROJECT IMPROVEMENTS
LARCHWOOD, IOWA

PLAN VIEW
LYON COUNTY STP-S-060(127)--5E-60

SHEET D.07

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