INDEX OF SHEETS						
No.	DESCRIPTION					
* A.1 * A.2 - 3 * A.4 * A.5 - 8	Title Sheets Title Sheet/Location Map Field Exam Questions Design Criteria Project Concept Typical Cross Sections and Details					
B.1 - 5 Sheets * D.1 - 8	Typical Cross Sections and Details Mainline Plan and Profile Sheets Plan Sheets US 30/IA 930					
J Sheets	Traffic Control and Staging Sheets Traffic Control Plan * Color Plan Sheets					



PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

HMA Resurfacing/Cold-in-Place Recycling
US 30 to the Story Co. Line

SCALES: As Noted

- Transetien to US 30 PCC from normal crown to triped north.

- Add mill to PCC at E, end where 4-lone

- Add pointed arrows (Ramp C X2 Wb), (@ new PCC X2 Wb)
(X2 Eb Q gull 4-lane)
- Shoulder Rock touch up @ Ramp C.





6/14/2023 Attendees Matt Vais Scott Nixon Ben Adey

REVISIONS

PROJECT IDENTIFICATION NUMBER

22-08-930-010 PROJECT NUMBER NHSX-930-0(024)--3H-08 R.O.W. PROJECT NUMBER

D7 PLAN - Date: 9/6/2022

INDEX OF SEALS							
SHEET NO.	NAME	TYPE					
A.1	Allison Smyth	Primary Signature Block					

PRELIMINARY (PLANS
---------------	-------

Subject to change by final design.

D2 PLAN - Date: 5-16-2022

DESIGN TEAM Smyth\Adey\Vais

BOONE COUNTY

PROJECT NUMBER NHSX-930-0(024)--3H-08

SHEET NUMBER

A.1

 $pw: \NTPwint 1. dot. int. Ian: PWMain \Documents \Projects \NS 93001022 \District \Design \NS 930024_A1. dgn \Documents \Projects \NS 93001022 \District \Design \NS 930024_A1. dgn \Documents \Projects \NS 93001022 \District \Design \NS 930024_A1. dgn \Documents \Projects \NS 93001022 \District \Design \NS 930024_A1. dgn \Documents \Projects \NS 93001022 \District \Design \NS 930024_A1. dgn \Documents \Projects \Documents \Projects \Documents \Projects \Documents \Projects \Documents \Documents \Documents \Projects \Documents \Docum$

FIELD EXAM CHECKLIST

1 - Duration of project?

3 months

2 - Speed Limit

55 mph

3 - Speed Limit during construction

55 mph

4 - Is sight distance a problem?

No

5 - Patching quantities-full depth, partial depth, and surface.

Full Depth, Jefferson RCE

6 - Does patching need to be done in the project area or do the construction limits need to be extended? Who will provide locations of patches by milepost?

Jefferson RCE

- 7 Are rumble strips going to be placed with this project or a separate project? Centerline and Edge line rumble strips will be included in the 55 mph speed zone. From the west end of the project east to 1,900 ft. west of the Story Co. line.
- 8 Leveling and strengthening locations and lengths (i.e. station to station).

No

9 - Areas of haul-outs.

N/A

10 - Any survey needed? (culvert extensions, safety dikes, right turn lanes, horizontal curves, ext..)

RCE Survey

11 - Do any of the utilities need to be relocated permanently or temporarily for construction? (power/telephone poles) either

No

12 - Names and addresses of affected utility companies.

Sean Passick - None should be affected

13 - Locations of entrances to be reshaped.

N/A

14 - Are there existing drainage problems?

No

5/19/2022

9:23:48 AM

FIELD EXAM CHECKLIST

15 - Note any special features not shown on plan.

No

16 - Note condition of existing culverts.

Boone Maintenance

17 - Names of affected special events.



18 - Locations of mailboxes to be relocated to a minimum of 8' from the pavement edge.

N/A

19 - Number and location of EF joints.

2 on Ramp B

20 - Disposition of bridge handrail and guardrail, including posts.

Guardrail will be brought up to current standard on Ramp B.

21 - Inventory of existing guardrail.

Boone Maintenance?

22 - Remove & Reinstall Signs - District Maintenance or by the Contractor?

23 - Longitudinal joint repair locations (station to station).

24 - Locations and quantities of engineering fabric to be placed over random cracks.

25 - Tabulation of adjustment of fixtures.

N/A

26 - Clearing and grubbing quantities - by unit or by area?

27 - Resurfacing Projects - is District Survey able to preserve Section Corners & Points? If "no", then add these items under Construction Survey.

D1 Survey

A.2

FIELD EXAM CHECKLIST

Contractor furnish borrow? (Yes) / (No)

No

Full depth patches to be PCC? (Yes) / (No)

RCE

Full depth PCC patches to be doweled? (Yes) / (No)

RCE

Soils to determine and provide tabulation of subdrains? (Yes) / (No)

Ben Adey

Pollution Prevention Plan required? (Yes) / (No)

Field Office? (Yes) / (No)

No

Construction Survey and or Point Preservation by DOT or Contractor? See Dist. 1 Surveyor for this (DOT) / (Contractor).

D1 Survey.

Survey by Office of Design? (Yes) / (No)

Pavement markings for turn lanes as determined by the District? (Yes) / (No)

N/A

Any RWIS or Traffic Recorder Sites within project limits? (Yes) / (No)

pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\0893001022\DistrictDesign\08930024_A1.dgn

PROJECT NUMBER

SHEET NUMBER

Roadw	ay Design S	Speed (mph) =	6	60											
Design Manual Section 1C-1 Last Updated: 04-29-19							Design	Criteria f	or High S	Speed Ro	adways				
					Preferre	d Criteria					Acceptab	ole Criteria			5
	Design Element				Design Speed, mph Design Speed, mph								Project Values		
			50	55	60	65	70	75	50	55	60	65	70	75	Values
Stopping sight distance (ft) (F	Refer to Section 6D-	<u>1</u>)	425	495	570	645	730	820	425	495	570	645	730	820	570
radius (ft) s (Refer to Sections <u>2A-2</u> and	Method 5 superelevation	e _{max} = 6%	833	1060	1330	1660	2040	2500	833	1060	1330	1660	2040	2500	N/A
	and side friction distribution	e _{max} = 8%	8.6			==		1000	758	960	1200	1480	1810	2210	N/A
Minimum vertical curve length	h (ft) (Refer to Secti	on <u>2B-1</u>)	150	165	180	195	210	225	150	165	180	195	210	225	N/A
	crest vertical curv	ves	84	114	151	193	247	312	84	114	151	193	247	312	N/A
Minimum rate of vertical curvature (K)	sag vertical	roadways without fixed- source lighting	96	115	136	157	181	206	96	115	136	157	181	206	N/A
(Refer to Section <u>2B-1</u>)	curves	roadways with fixed- source lighting	96	115	136	157	181	206	54	66	78	91	106	121	N/A
Minimum gradient (%)	(Refer to Section	2B-1)			0	.5				0.39	% with a curb, 0	0.0% without a	curb		N/A
		Urban roadways							7	6	6	_	77===		N/A
Maximum gradient (%)	(Refer to Section	Rural roadways	4				3		5	5	4	4	4	4	N/A
5	<u>2B-1</u>)	Interstates							5	5	4	4	4	4	N/A
Clear zone				See "Pre	ferred Clear Zo	ne" table in Se	ction 8A-2			See "Acce	ptable Clear Zo	one" table in Se	ection 8A-2		32

TO OFFICE: District 1

DATE:

April 18, 2022

22-08-930-010

ATTENTION: Tony Gustafson

COUNTY:

Boone

Allison Smyth

PROJ. NO.:

NHSX-930-0(024)-3H-08

PIN: **FOLDER:**

D0Submittal

OFFICE:

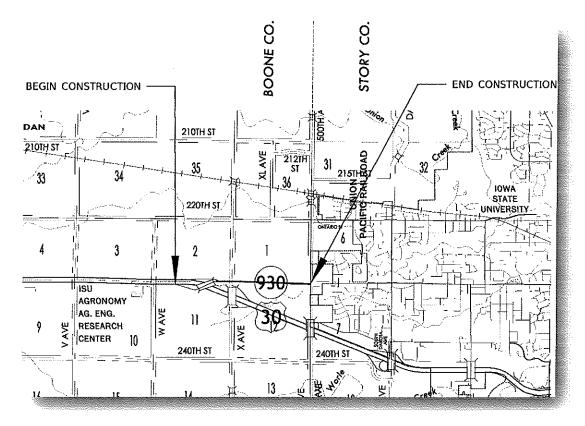
FROM:

District 1

SUBJECT:

FY 2023 3R Concept Statement - FINAL

PROJECT LOCATION: On IA 930 from US 30 to the Story County Line



PROJECT DATA:

ROUTE: IA 930 LENGTH: 1.3 Miles

PLANNING CLASSIFICATION: Access Route

MAINTENANCE SERVICE LEVEL: C

NHS ROUTE: No

TRAFFIC:

2023: 6,400 ADT with 4% trucks

2043: 10,800 ADT with 4 % trucks

Page 1 of 7

PURPOSE AND NEED:

The pavement along this route has reached the end of its useful life and requires rehabilitation.



FEASIBLE ALTERNATIVES: **

- 1. \$1,107,000 3-inch HMA Resurfacing with 3-inch Milling (20-year design)
- 2. \$1,249,000 3-inch Milling, 3-inch Cold-in-Place Recycling, and 3-inch HMA Resurfacing (20year design)
- 3. \$5,302,000 9-inch PCC & 12" Modified Subbase Reconstruction (40-year design) See attached detailed cost estimate.

Concept Cost Estimate.pdf

A.5

SHEET NUMBER

RECOMMENDATIONS:

Alternative 2 is the preferred alternative in order to achieve a durable, cost-effective rehabilitation with the ability to maintain traffic during construction.

The typical cross section for IA 930 on this project will be 48-foot-wide paving and 10-foot-wide granular shoulders at the west end of the project, transitioning to 24-foot-wide pavement to the east. Ramps B and C will have 24-foot-wide paving with 10-foot-wide granular shoulders on the outside, and 6-foot-wide granular shoulders on the inside. The Ramp B bridge and approaches will be gapped (approximately 620ft). The existing foreslopes will be used as constructed.

Longitudinal subdrains will be added along the length of the project.

Centerline rumble strips and edge line rumble stripes will be included within the 55-mph speed zone, which is located from the west end of the project east to 1,900 feet west of the Story County line.

FUNDS PROGRAMMED:

PROJECT NUMBER

COUNTY

This project will be funded with FY 2023 3R funds.

Page	2	of	7
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^{**}Requires review by pavement determination group.

Boone County NHSX-930-0(024)—3H-08 April 18, 2020 Boone County NHSX-930-0(024)—3H-08 April 18, 2020

PROJECT IMPACTS:

Designed by: District 1

Designed by. District 1	A i - 4 - 1 - 0 - 0	
	Assistance	D I.
Design Impact	Requested	Remarks
	(Y/N)	
ADA:	N	
Agreements/Notification Letters:	Υ	Notification letter for the city of Ames
Bridges and Structures:	N	
Consultant:	N	
Contracts:	N	
Design/Methods:	N	
Location and Environment:	N	
Maintenance: (Boone)	Υ	Culvert Review
Project Management:	N	
Railroad:	N	
RCE: (Jefferson)	N	
Right of Way:	N	
Soils:	N	
Survey/Photogrammetry:	N	
Systems Planning:	N	
Traffic and Safety:	N	
Utilities:	N	
Other:	N	

Cc:

CC.			
C. Purcell	M. J. Kennerly	K. D. Nicholson	S. J. Megivern
M. A. Swenson	J. Hart	J. S. Nelson	B. Walls
K. Brink	D. L. Newell	K. Olson	S. Majors
J. W. Laaser-Webb	W. A. Sorenson	D. E. Sprengeler	D. A. Popp
E. C. Wright	M. E. Ross	A. A. Welch	B. Ellis
D. R. Claman	M. Nop	J. Hoskins	E. Engle
C. Brakke	S. Nielsen	M. Hobbs	C. C. Poole
J. Garton	M. Donovan	V. Brewer	B. E. Azeltine
J. Harris	J. Bartholomew	B. D. Hofer	A. Poole
E. D. Gansen	S. J. Gent	S. Anderson	D. Stokes
B. Adey	K. K. Patel	S. Godbold	W. W. Musgrove
H. Bibiano	N. Cuva	A. Smyth	M. Ortiz-Pagan
D. L. Maifield	J. Vortherms	C. Davis	S. Nixon

CONCEPT ANALYSIS & SUPPORTING DATA:

Necessary supporting data may be linked in the analysis to ProjectWise.

PAVEMENT:

Existing Conditions:

Link to Concept Tool Results:



Pavement History:

See attached PMIS sheets.



PMIS Data:

See attached PMIS sheets.

PMIS Section Report (93031000 00

Pavement Design & dTIMS Recommendation:

dTIMS recommends cold in place recycling in 2027.

Subdrains:

Subdrains will be included with this project to bring the subdrain coverage up to 100%.

Patching/Curb Repairs:

Not included in this project.

ADA/Sidewalk/Trails:

No pedestrian facilities exist within the limits of the project. No new pedestrian facilities are anticipated with this project.

Page 4 of 7

SAFETY:

3R Design Criteria:

Six Design Cinteria:				· · · · · ·		I				
Acceptable Values for 3R Roadway Features										
DESIGN ELEMENT	FREEWAY	FREEWAY NON-FREEWAY								
Regulatory Speed (mph)	65/55	55	45	35	25	55				
Minimum Vertical Curve (mph)	65/55	35	25	15	5	NA				
Maximum Horizontal Curve (degrees)	3	6	8	14	28	NA				
Maximum Gradient	3%	6%	7%	10%	13%	1.8%				
Lane Width (feet)	12	12	11	11	11	12				
Parking Lane Width (feet)			8	8	8	NA				
Shoulder Width (feet)	10/6	6	4	4	2	10 (gran)				
Foreslopes	3:1	3:1	3:1							
Transverse Slopes	6:1	6:1	6:1							
Horizontal Clearance (feet)						32				
	Approach	Lanes + Sho	ulder	Approach	Lanes +					
Bridge Width		Width		Offs	et	NA				
Vertical Clearance - Over NHS (feet)	16.5	16.5	16.5	16.5	16.5	NA				
Vertical Clearance - Over Local (feet)	14.5	14.5	14.5	14.5	14.5	NA				

Crash Analysis:

ICAT Reports.pdf

See attached ICAT quick report with 5-year crash history summary.

Key Findings:

- From 2017 to 2021, the project area had 29 crashes.
- None were fatal crashes.
- 21 crashes were property damage only.
- 4 crashes were animal related.
- 13 crashes were intersection related. See attached collision diagrams.
- 3 crashes were related to winter conditions.

Intersection Analysis:

No right or left turn lanes will be included with this project.

No radius improvements will be included with this project.

Boone County will be invited to pave the unpaved side road approach at X Avenue at County cost with this project.

Railroads:

No railroad crossings are present within the limits of this project.

Page 5 of 7

STRUCTURES and DRAINAGE:

Bridges:

Ramp B has structure number 0819.6R930 over US 30. It is a 400'-0 x 40'Continuous welded girder bridge constructed in 1972 and overlaid in 2012. No bridge work will be included with this project.

Culverts/Pipes:

Three culverts are located within the limits of the project—one marked deficient in the Collector application. Pipe separation is suspected and will be repaired with this project.

Guardrail:

Guardrail at the bridge on Ramp B has the outdated symmetrical connection to the bridge and will be brought to current standards with this project.

Drainage District:

None identified with this project.

PROJECT IMPACTS:

Environmental:

No Clearing and Grubbing needs have been identified.

TSMO/Traffic Control:

IA 930 will remain open to traffic during construction. Traffic will be maintained via pilot cars and flaggers.

ROW:

No ROW acquisitions are anticipated with this project.

Agreements/Notification Letters:

A notification letter is needed for the city of Ames.

Project Coordination:

None.

SHEET NUMBER

A.7

Boone County

NHSX-930-0(024)—3H-08

April 18, 2020

FEASIBLE ALTERNATIVES & RECOMMENDATION:

FEASIBLE ALTERNATIVES: **

- 1. \$1,107,000 3-inch HMA Resurfacing with 3-inch Milling (20-year design)
- 2. \$1,249,000 3-inch Milling, 3-inch Cold-in-Place Recycling, and 3-inch HMA Resurfacing (20-year design)
- 3. \$5,302,000 9-inch PCC & 12" Modified Subbase Reconstruction (40-year design) See attached detailed cost estimate.

RECOMMENDATIONS:

Alternative 2 is the preferred alternative in order to achieve a durable, cost-effective rehabilitation with the ability to maintain traffic during construction.

The typical cross section for IA 930 on this project will be 48-foot-wide paving and 10-foot-wide granular shoulders at the west end of the project, transitioning to 24-foot-wide pavement to the east. Ramps B and C will have 24-foot-wide paving with 10-foot-wide granular shoulders on the outside, and 6-foot-wide granular shoulders on the inside. The Ramp B bridge and approaches will be gapped (approximately 620ft). The existing foreslopes will be used as constructed.

Longitudinal subdrains will be added along the length of the project.

Centerline rumble strips and edge line rumble stripes will be included within the 55-mph speed zone, which is located from the west end of the project east to 1,900 feet west of the Story County line.

FUNDS PROGRAMMED:

This project will be funded with FY 2023 3R funds.

Development Schedule:

D00 Pre-Design Concept	4-15-2022
D02 Design Field Exam	5-16-2021
D07 Final Pave Plans	9-6-2022
LO2 Letting- Paving and Incidentals	11-15-2022

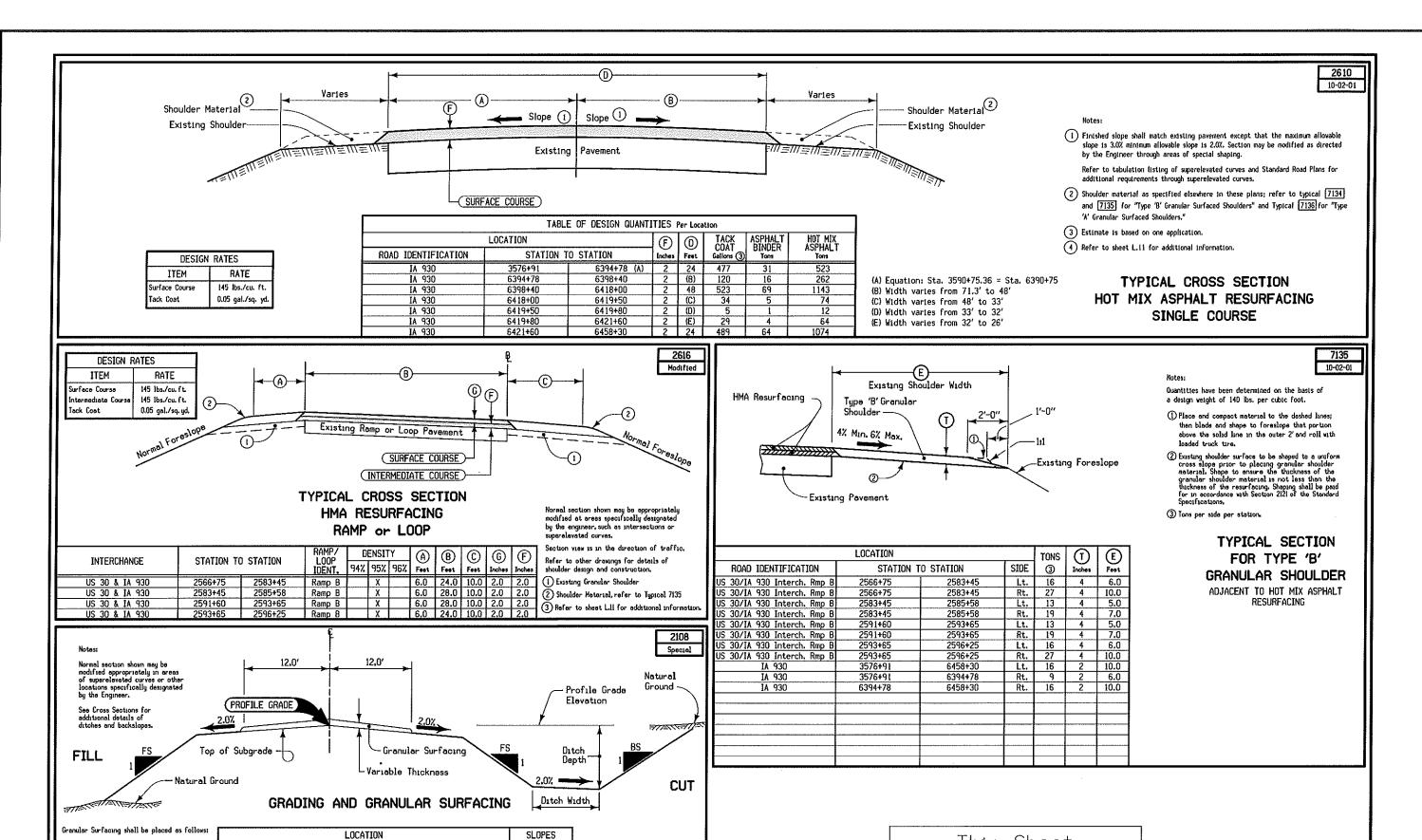
ILE NO. ENGLISH DESIGN TEAM Smyth\Adey\Vais Page 7 of 7

BOONECOUNTY

PROJECT NUMBER NHSX-930-0(024)--3H-08

SHEET NUMBER

^{**}Requires review by pavement determination group.



This Sheet For Information Only

ENGLISH TOU AWOL DESIGN TEAM Gustafson\Mackey\Tibodeau 7:23:43 AM 5/17/2010 W:\Projects\0803002008\DistrictDesign\08030075b01.sht

emporary Detour Road, refer to Sheet J.11 for details.

ROAD IDENTIFICATION

FS BS

4 ---

STATION TO STATION

BOONE/STORY COUNTY PROJECT NUMBER NHSX-30-4(75)--3H-08

SHEET NUMBER **B.2**

ENGLISH DESIGN TEAM Smyth\Adey\Vais FILE NO

BOONECOUNTY

PROJECT NUMBER NHSX-930-0(024)--3H-08

SHEET NUMBER B.1

Stage 1 (Grading 1 Design application rate is

Stage 2 (Paving) Design application rate is

ITEM Gurface Course

Stabilizing Agent

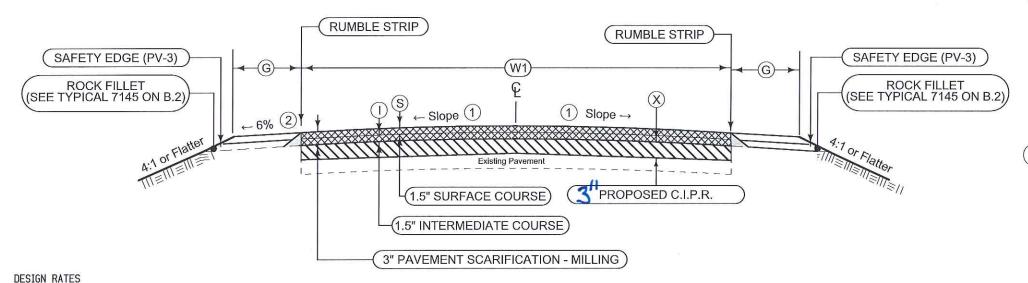
Binder Rate estimate 6% of S + I tons

0.0011 tons/Sq.Yd./Inch

PAVEMENT SCARIFICATION = Stage 1 (2" Milling)

C.I.R. (Cold In-Place Recycling) = Stage 2 (3" CIPR depth)

HMA RESURFACING = Stage 3 (2" HMA resurfacing)



Notes:

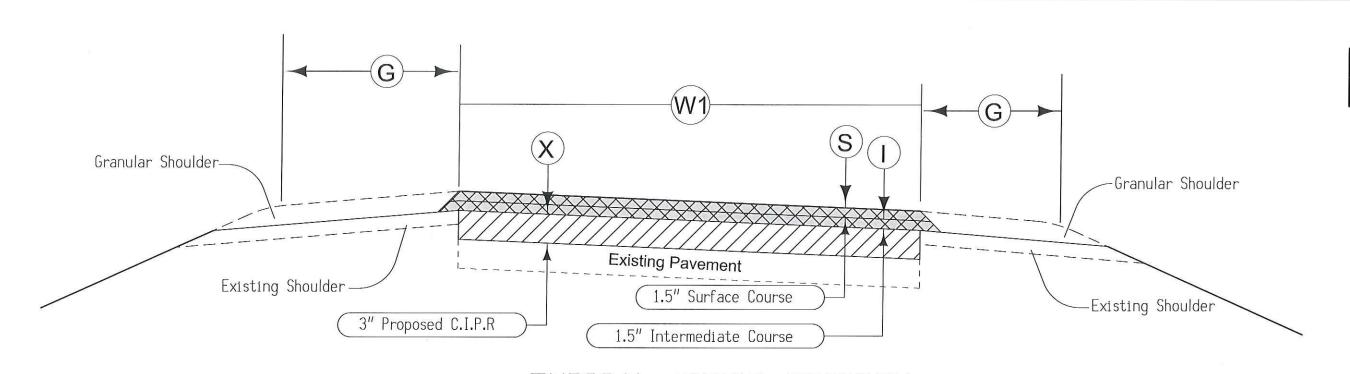
- Match finished slope to existing pavement, except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the Engineer through areas of special shaping. Refer to tabulation listing of superelevated curves and Standard Road Plans for additional requirements through superelevated curves.
- A 6% shoulder slope is proposed to better match the existing shoulder slope and to better establish a stable granular shoulder. A rock fillet should be utilized adjacent to the shoulder to finish the edge.

LOCATION				HMA Resurfacing Cold In-place Recycling							
LOCATION					(NIII)		(11)		100 100 20	Stabilizing	
ROAD IDENTIFICATION	STATION T	O STATION	(S) Inches	Inches	W1 Feet	(G) Feet	W1 Feet	(X) Inches	CIR SY	Agent Tons	
IA 930	6394+78.	6398+40.	1.5	1.5	59.7	10	59.7	3	2401.27	7.9	
IA 930	6398+40.	6418+00.	1.5	1.5	48	10	48	3	10453.33	34.5	
IA 930	6418+00.	6419+50.	1.5	1.5	40.5	10	40.5	3	675.00	2.2	
IA 930	6419+50.	6419+80.	1.5	1.5	32.5	10	32.5	3	108.33	0.4	
IA 930	6419+80.	6421+60.	1.5	1.5	29	10	29	3	580.00	1.9	
IA 930	6421+60.	6458+30.	1.5	1.5	24	10	24	3	9786.67	32.3	
						Totals			24004.60	79.2	

No CIP in Tapers

TYPICAL CROSS SECTION PROPOSED: PAVEMENT SCARIFICATION. **COLD IN-PLACE RECYCLING** and HMA RESURFACING IA 930

BOONECOUNTY PROJECT NUMBER NHSX-930-0(024)--3H-08 SHEET NUMBER **B.2** DESIGN TEAM Smyth\Adey\Vais **ENGLISH**



Section view is in the direction of traffic.

1 Refer to shoulder typicals

Refer to other drawings for details of

shoulder design and construction.

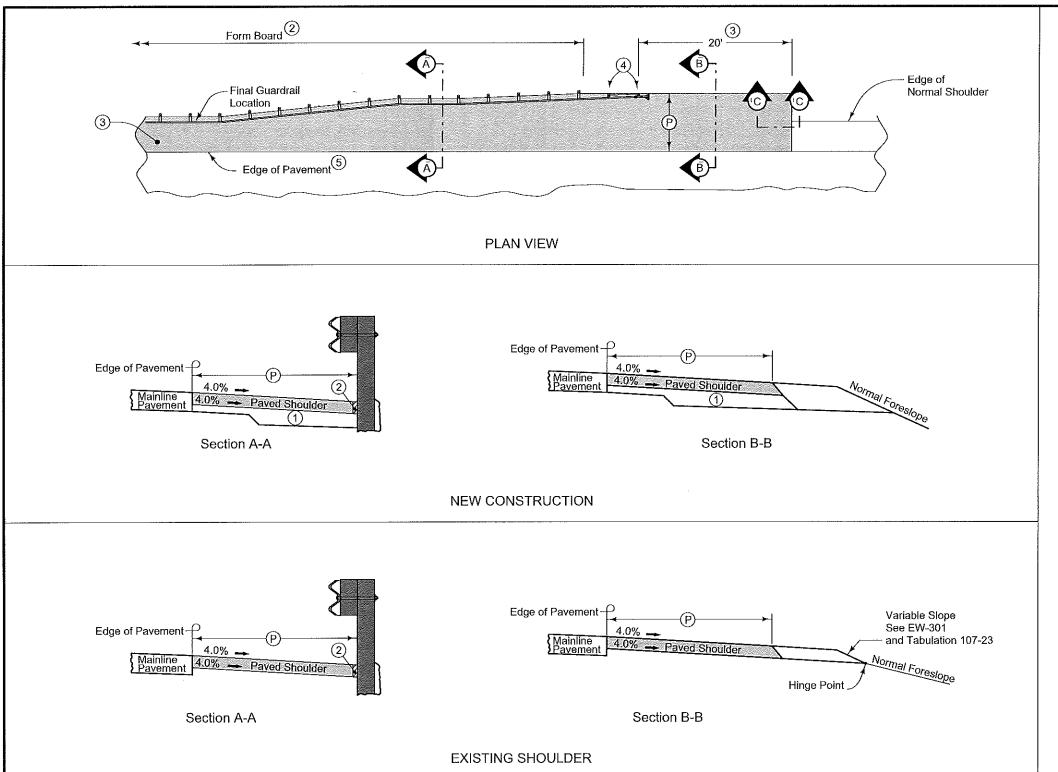
2616

10-15-13

TYPICAL CROSS SECTION HMA RESURFACING RAMP or LOOP

EB samp

LOCATION			HMA Resurfacing Cold In-place Recycling								
LOCATION	F		(s)		(W1)	(G)	(G)	W ₁	(\mathbf{x})	CID	Stabilizing
ROAD IDENTIFICATION	STATION T	O STATION	Inches	Inches	Feet	Feet	Feet	Feet	Inches	CIR SY	Agent Tons
Ramp B	2566+75.	2583+45.	1.5	1.5	24	10	6	24	3	4453.33	14.7
Ramp B	2583+45.	2585+58.	1.5	1.5	28	10	6	28	3	662.67	2.2
Ramp B	2591+60.	2593+65.	1.5	1.5	28	10	6	28	3	637.78	2.1
Ramp B	2593+65.	2596+25.	1.5	1.5	24	10	6	24	3	693.33	2.3
Ramp C	3576+91.	3590+75.36	1.5	1.5	24	10	6	24	3	3691.63	12.2
Ramp C EQ: 3590+75.36=6390+75	6390+75.	6394+81.3	1.5	1.5	24	10	6	24	3	1083.47	3.6
							Totals			11222.20	37.0





7156

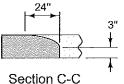
9" HMA Paved Shoulder at guardrail. 8" PCC may be substituted with the following jointing layout:

Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at P/2 from edge of mainline pavement when P is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.

Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail. Removal and reinstallation of guardrail will be allowed with no additional payment.

Refer to Tabulation 112-9 for shoulder quantities.

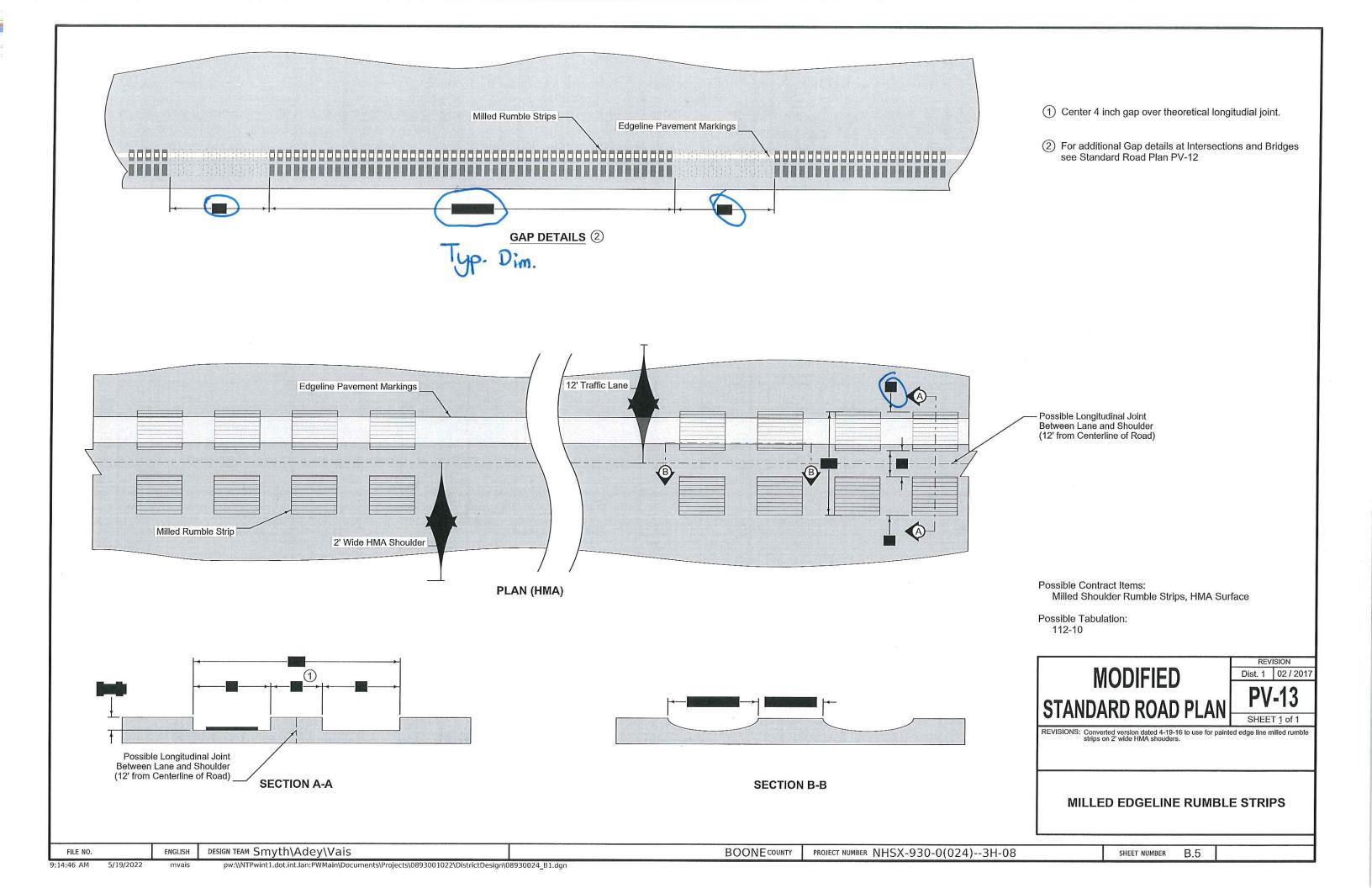
- 1) For subgrade treatment, refer to other details in the plan.
- (2) PCC option only: When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for the length shown. Refer to note 4 for final 2 posts.
- 3 Continue paved shoulder to existing paved shoulder or 20 feet beyond the center of the first post.
- 4) Shoulder may be notched for final 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.
- (5) 'KT-1 joint for PCC shoulder. 'B' joint for HMA shoulder.

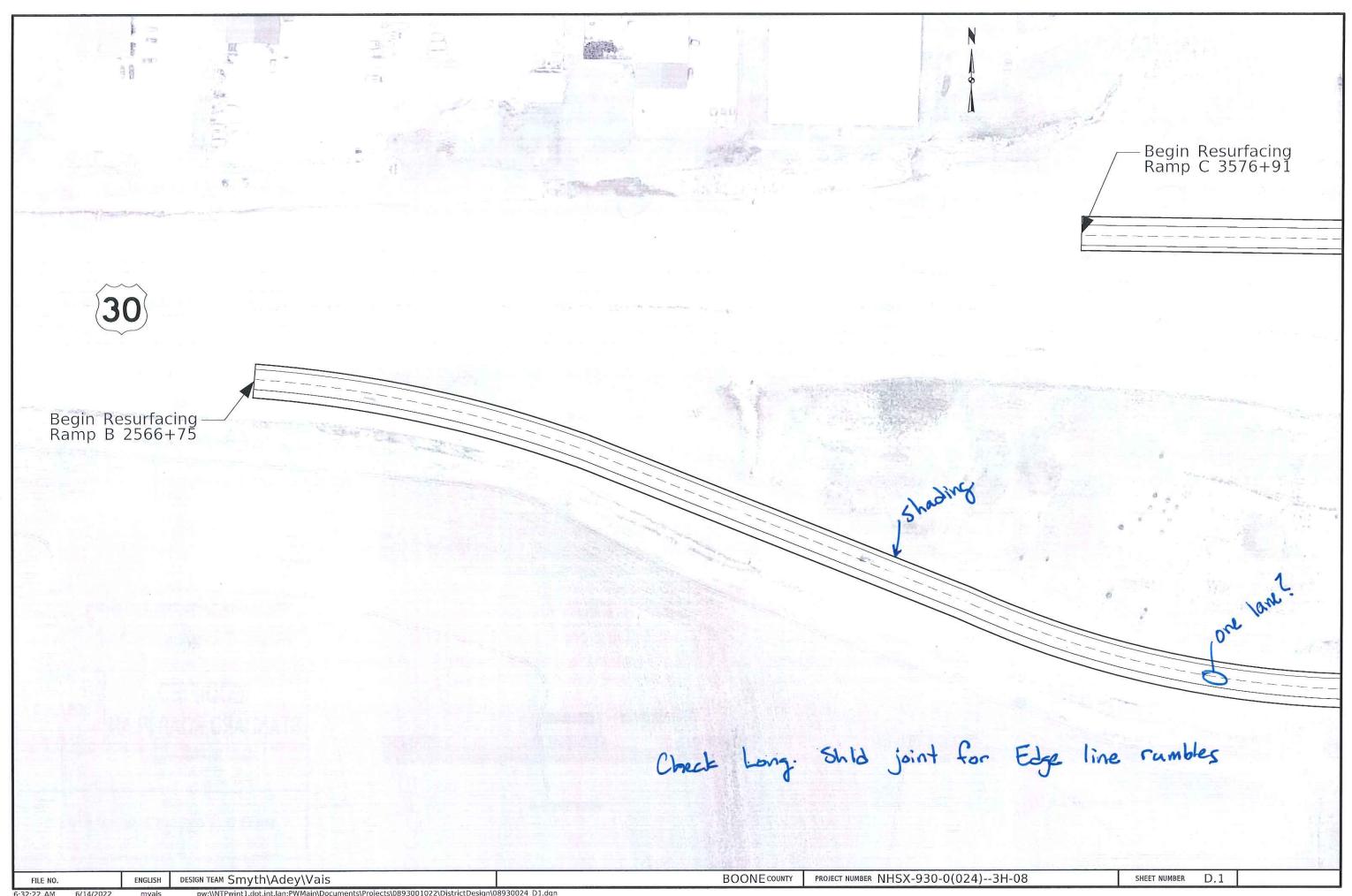


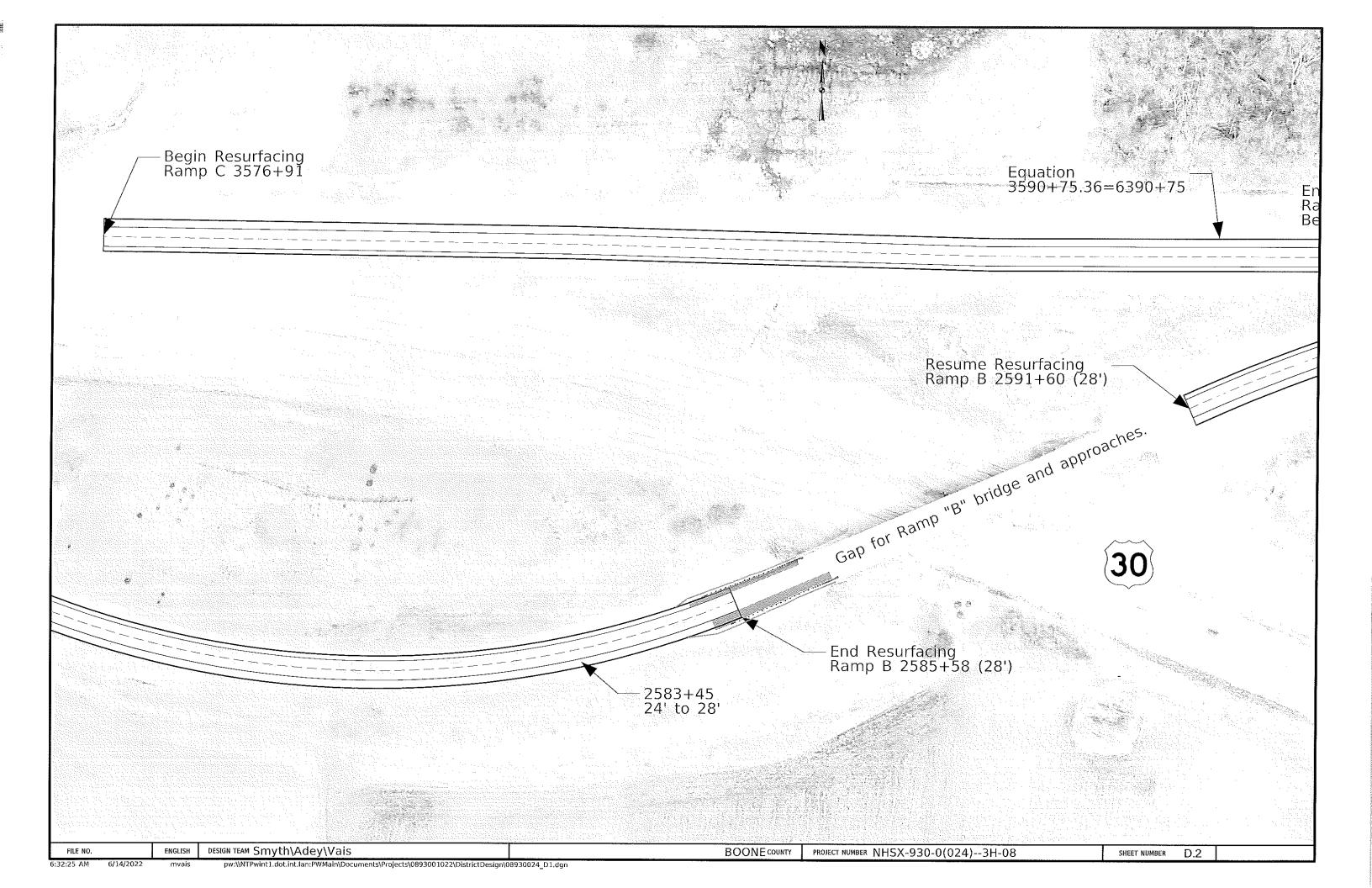
Roll down at granular shoulder or earth.

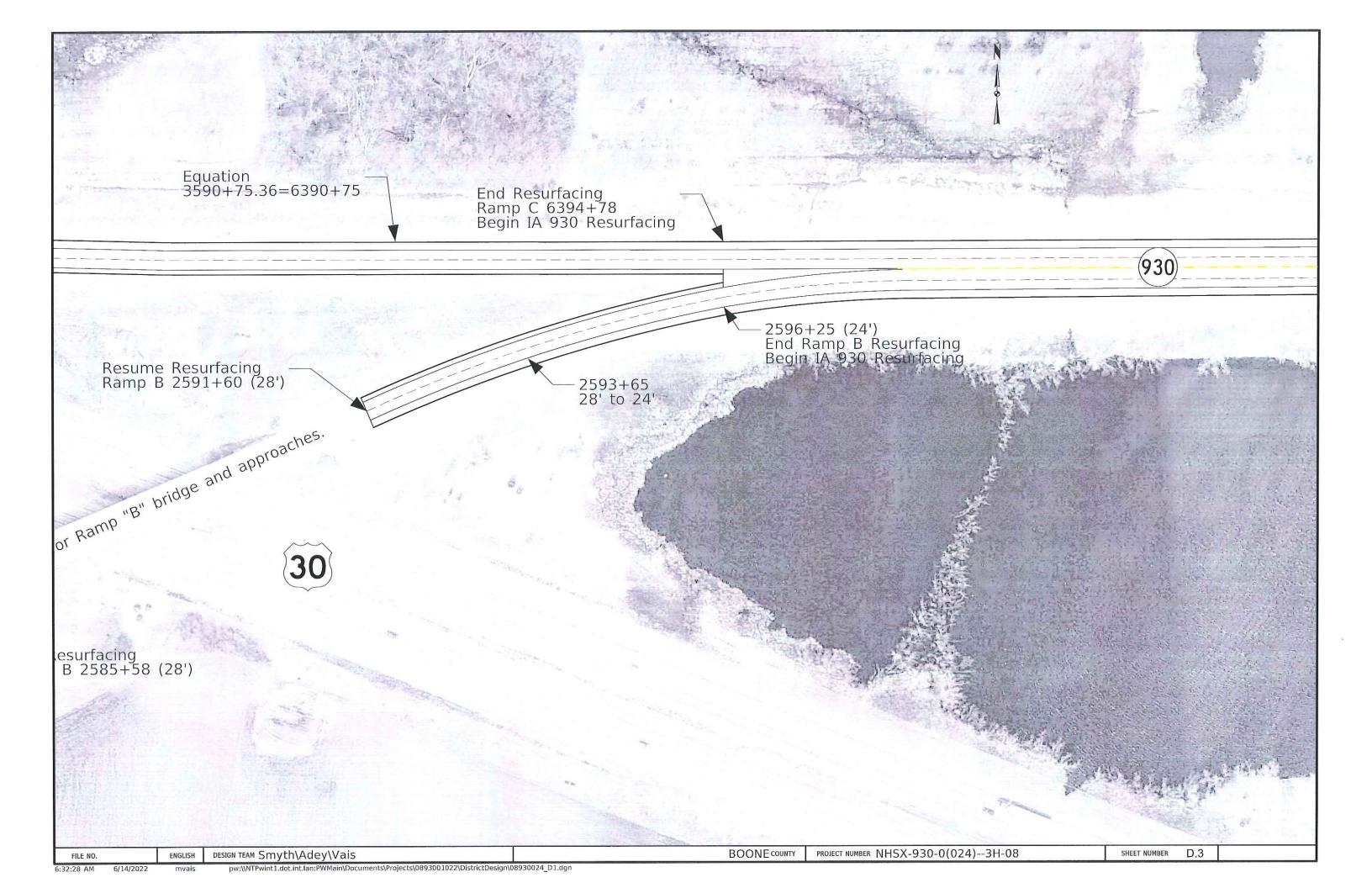
PAVED SHOULDER AT GUARDRAIL

BOONECOUNTY PROJECT NUMBER NHSX-930-0(024)--3H-08 SHEET NUMBER B,4 DESIGN TEAM Smyth\Adey\Vais



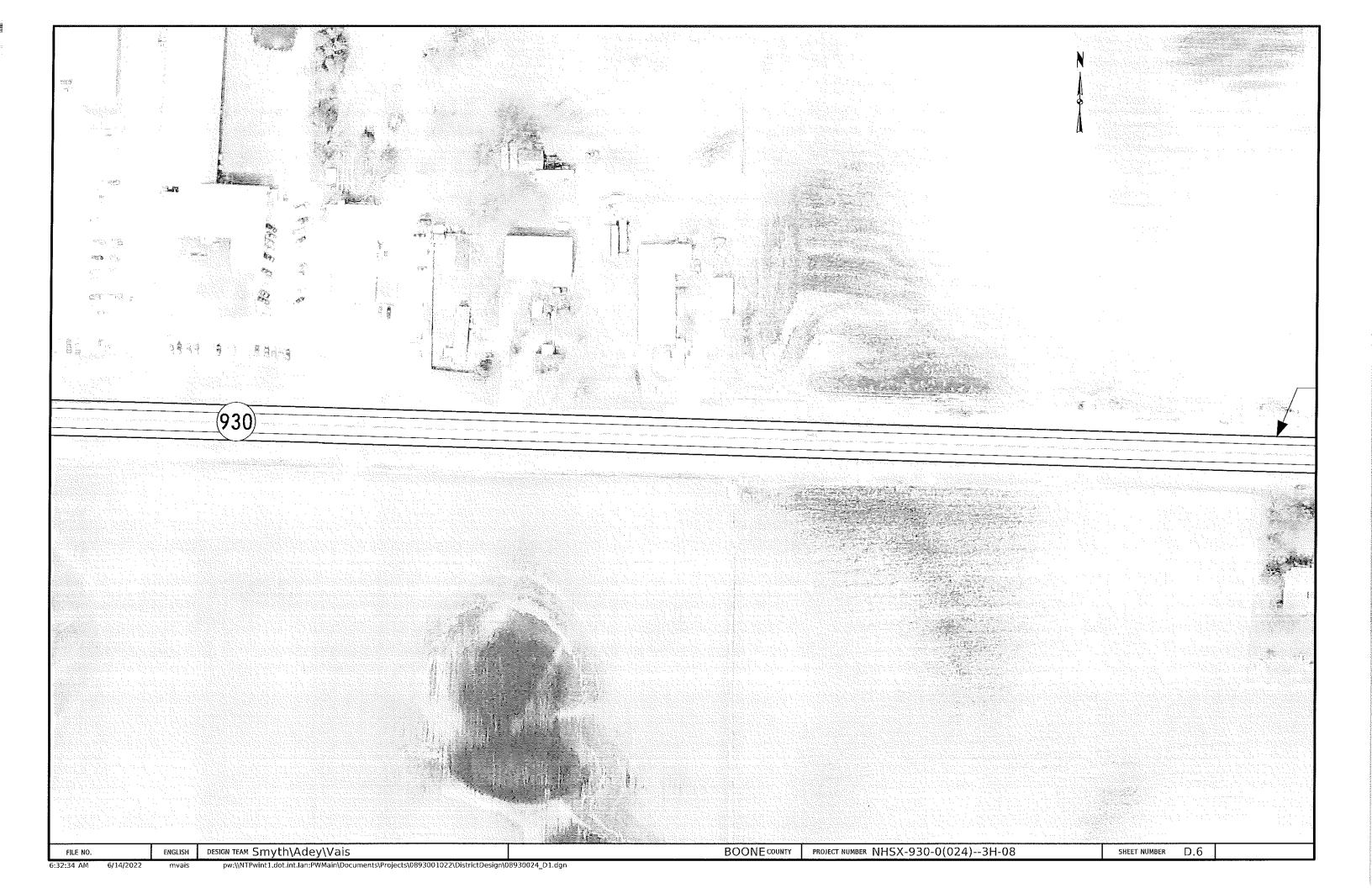
















TRAFFIC CONTROL PLAN

IA 930 will remain open to traffic during construction. Traffic will be maintained via pilot cars and flaggers.

No Const. during ISU Events

Short term Ramp closures? 511 TRAVEL RESTRICTIONS

SHEET NUMBER

oute Directio	on County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remark
		None Anticipated									-

Event	Location	Date
aster Bunny Train	Boone	04/09/22
gden Fun Days	Ogden	6/24 & 6/25/2022
ufferbilly Days	Boone	8/5/2022-8/7/2022
arm Progree Show	Boone	8/30/2022-9/1/2022
adrid Labor Day Celebration	Madrid	9/2/2022-9/5/2022
MCA Super Nationals	Boone	9/5/2022-9/10/2022
owa State vs SE Missouri	Ames	09/03/22
owa State vs Ohio	Ames	09/17/22
owa State vs Baylor	Ames	09/24/22
owa State vs Kansas St	Ames	10/08/22
owa State vs Oklahoma (Thursday Night)	Ames	10/27/22
owa State vs West Virginia	Ames	11/05/22
owa State vs Texas Tech	Ames	11/19/22
owa FFA Leadership Conference	Ames	4-10 to 4-12 2022
owa State Graduation	Ames	May 12th & 14th 2022
pecial Olympics Summer Games	Ames-ISU Campus	5-19 to 5-21 2022
022 Odyssey of the Mind World Finals	Ames	5-25 to 5-28 2022
tate Games of America	Ames	7/9-10, 7/22-24, 7/27-7/31
arm Progress Show	Central Iowa Expo-Boone	8-30 9-1 2022

2023 Events

BOONE COUNTY PROJECT NUMBER NHSX-930-0(024)--3H-08 ENGLISH DESIGN TEAM Smyth\Adey\Vais FILE NO.