STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAI ROUTE 39 (I-39) MBPM 2022-1 PROJECT NO. NHPP-MQ6Y(810) **BRIDGE PRESERVATION - PIER REPAIR MCLEAN COUNTY**

C-95-044-21

CURRENT TRAFFIC DATA FOR F.A.I. 39

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

FOR INDEX OF SHEETS, SEE SHEET NO. 2

2019 ADT = 20,600

P.U. %

0

0

74.7 S.U. %

3.5 M.U. % 21.8

DESIGN DESIGNATION - N/A

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123

OR 811

HUDSON TOWNSHIP

STA 304+65.00 - PIER REPAIRS SN 057-0208(SB) & 0209(NB) OVER SIX MILE CREEK

STA 292+30.00 - PIER REPAIRS SN 057-0210(SB) & 0211(NB) OVER TRIBUTARY TO SIX MILE CREEK

LOCATION MAP

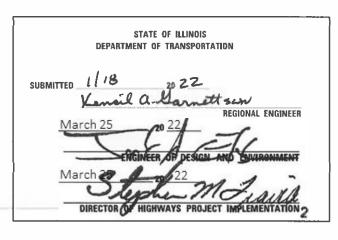
SCALE IN MILES

GROSS LENGTH = 0.0 FT. = 0.0 MILE NET LENGTH = 0.0 FT. = 0.0 MILE

MBPM 2022-1 MCLEAN 14 1 CONTRACT NO. 70F34

D-95-026-21





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: TIMOTHY J. BRANDENBURG

PROJECT MANAGER: S.A.A. PHONE NUMBER: (217) 465-4181

CONTRACT NO. 70F34

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES AND HIGHWAY STANDARDS
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTIONS
5 - 6	PLAN SHEETS
7 - 10	STRUCTURE REPAIR DETAIL SHEETS
11 - 14	WIDTH RESTRICTION SIGNING DETAIL

LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
0000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15 FT TO 24 IN FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15 FT AWAY
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES

GENERAL NOTES

S.N100A ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR. NO COMMITMENTS	THIS CONTRACT. WHERE INCLUDE	D, METRIC UNITS AR	E FOR INFO	RMATION	ONLY.		
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.							
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.	C N. 1004			-			
AVAILABLE TO THE CONTRACTOR.							
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NO COMMITMENTS	AVAILABLE TO THE CONTRACTOR.						
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	DRAWN	REVISED
PLOT SCALE = 40.0000 ' / in.	CHECKED	REVISED
PLOT DATE = 1/11/2022	DATE = 3/5/2021	REVISED = 1/11/2022

			LOCATION OF WORK:	FAI 39	
				SECTION M	BPM 2022-1
				INTERSTA	TE - RURAL
			FUNDING BREAKOUT:	90% FEDERA	L / 10% STATE
				BRIDGE PR	ESERVATION
			CONSTRUCTION TYPE CODE:	00	047
				MCLEAN	COUNTY
				SN 057-0208 & 0209	SN 057-0210 & 0211
			TOTAL		
CODE NO	<u>ITEM</u>	_UNIT	QUANTITY	QUANTITY	QUANTITY
			73		74
50200100	STRUCTURE EXCAVATION	CU YD	540.0	270.0	270.0
50300225	CONCRETE STRUCTURES	CU YD	47.0	22.0	25.0
50500505	STUD SHEAR CONNECTORS	EACH	544.0	256.0	288.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5,290.0	2490.0	2800.0
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	200.0	100.0	100.0
67100100	MOBILIZATION	L SUM	1.0	0.5	0.5
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1.0	0.5	0.5
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28.0	14.0	14.0
X2810208	STONE RIPRAP, CLASS A4 (SPECIAL)	TONS	340.0	170.0	170.0
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0	0.5	0.5
Z0001905	STRUCTURAL STEEL REPAIR	POUND	4,160.0	2080.0	2080.0
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1.0	1	
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	1	
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	LSUM	1		1
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO.	LSUM	1		1

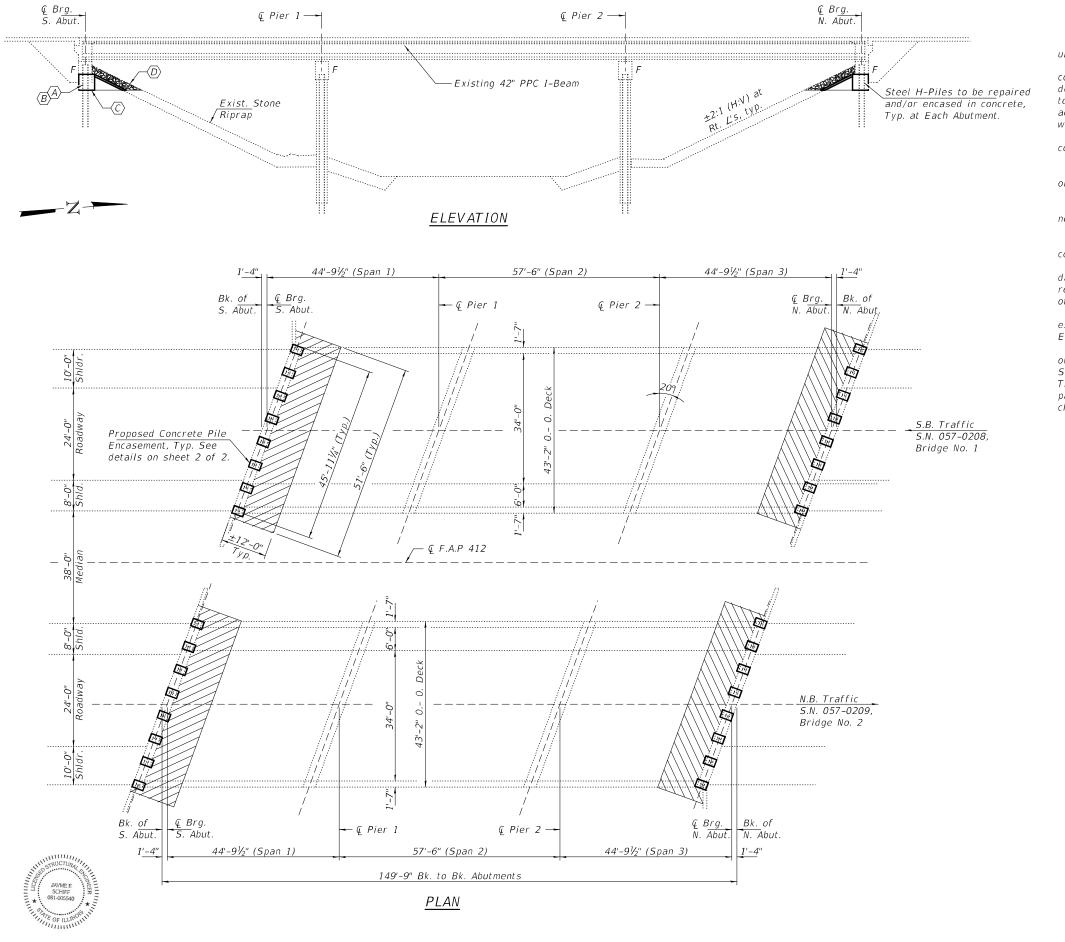
NO SPECIALTY ITEMS

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PLOT DATE = 1/28/2022	DATE		3/5/2021	REVISED	+3	1/27/2022

STATE	OF	: ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SCALE: _

	SUMMARY OF QU	IANTITIES		F.A.I. RTE.	SECTION MBPM 2022-1		COUNTY	TOTAL SHEETS	SHEE NO
			Î				CONTRACT	NO. 70)F34
_	SHEET 1 OF 1 SHEETS	STA	TO STA.		ILLINOIS	FED. AII	PROJECT		



GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The structural steel shapes, plates, and adjusting shims for pile repair's shall conform to the requirements of AASHTO M 270 Grade 50, unless noted otherwise. No field welding is permitted, except as noted.

High strength fasteners shall be ASTM A325 Type 3. Holes may be subpunched or subdrilled 16" dia. and reamed in the field to 16 dia. for dia. Bolts.

All-thread rods shall be ASTM F1554, Grade 55.

The Contractor shall field verify the required bolt length and length of threads necessary to install all bolts in accordance with the Standard Specification.

Reinforcement bars designated (E) shall be epoxy coated. Layout of the slope protection system may be varied to suit specific site conditions in the field as directed by the Engineer.

Contractor must exercise extreme care during construction operation as not to damage any of the overhead PPC I beams. Any damage done to the beams as a result of the contractor's operations will need to be repaired to the satisfaction of the Engineer at the contractor's expense.

The quantity and limits shown herein for Stone Riprap, Class A4 (Special) are estimated. Actual quantities shall be determined and adjusted in field by the Engineer.

Structural Steel Repair quantities are estimates based on initial investigations only. Exact pile locations needing repair will be determined by the Engineer after Structure Excavation and SSPC-SP10 Blast Cleaning by the Contractor. The Engineer shall obtain pile measurements after blast cleaning but before painting. The Contractor shall notify the Engineer in advance of pile blast cleaning to avoid pile inspection delays.

- $\langle A \rangle$ Expose and clean all abutment piles as shown.
- $\langle B \rangle$ Perform structural steel repairs to indicated abutment piles.
- $\langle \overline{C} \rangle$ Construct all abutment reinforced concrete pile encasements.
- (D) Backfill excavation with controlled low-strength material and add new riprap slope protection.

LEGEND



Limits of Structure Excavation. Backfill with controlled low-strength material (CLSM), mix 2. Top with filter fabric, bedding, and stone riprap. See details on sheet 2 of 2.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Stone Riprap, Class A4 (Special)	Ton	170
Structure Excavation	Cu. Yd.	270
Concrete Structures	Cu. Yd.	22
Stud Shear Connectors	Each	256
Reinforcement Bars, Epoxy Coated	Pound	2490
Controlled Low-Strength Material	Cu. Yd.	100
Structural Steel Repair	Pound	2080
Cleaning and Painting Steel Bridge No. 1	L. Sum	1
Cleaning and Painting Steel Bridge No. 2	L. Sum	1

The quantity and limits shown herein for Stone Riprap, Class A4 (Special) are estimated. Actual quantities shall be determined and adjusted in the field by the Engineer.

* Structural Steel Repair quantity is assumed for 4 piles location on each abutment. Exact pile number and locations to be determined in the field by the Engineer. Locations must also be included in the AS BUILT plans.

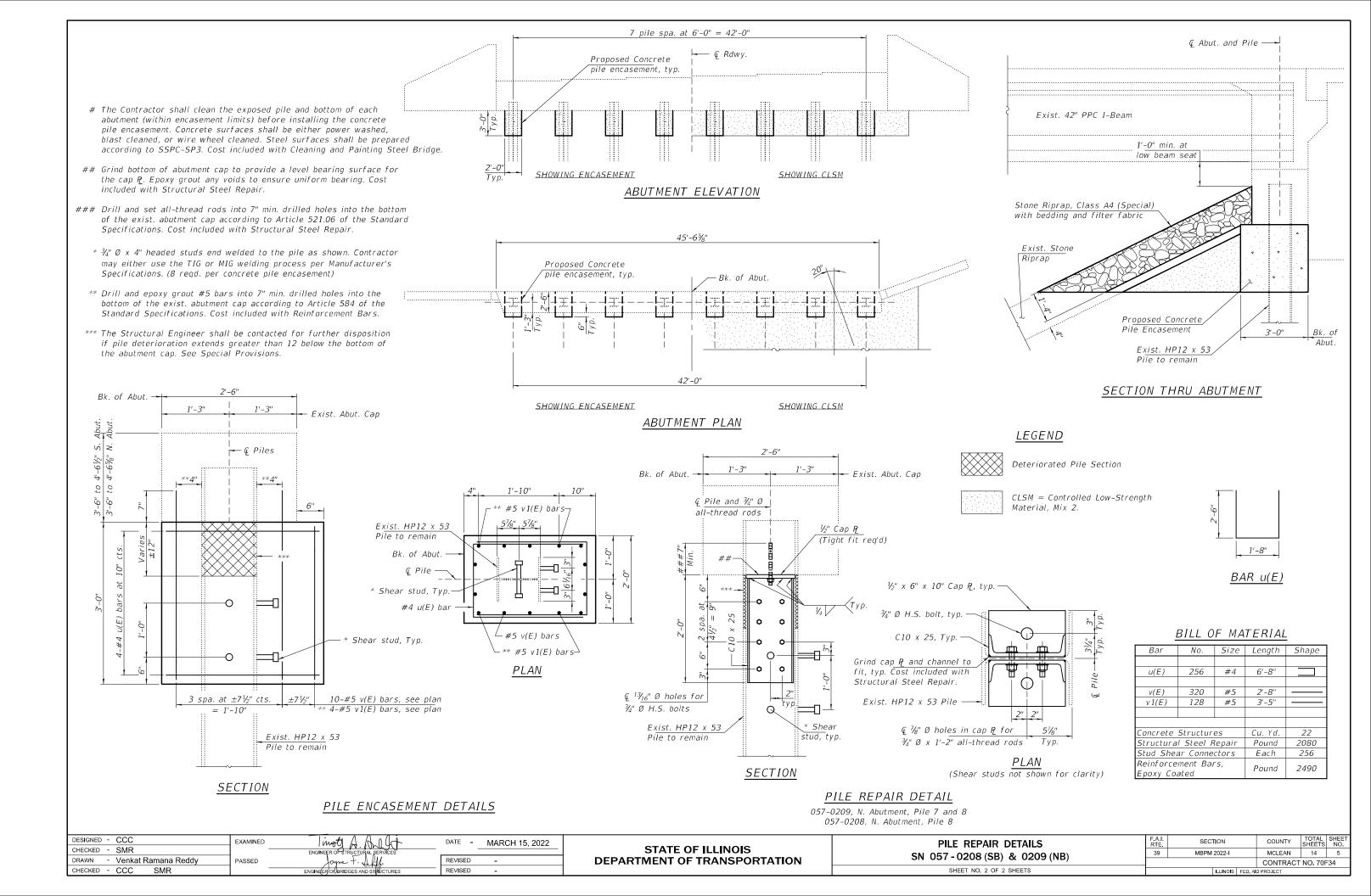
EXPIRES 11-30-2022

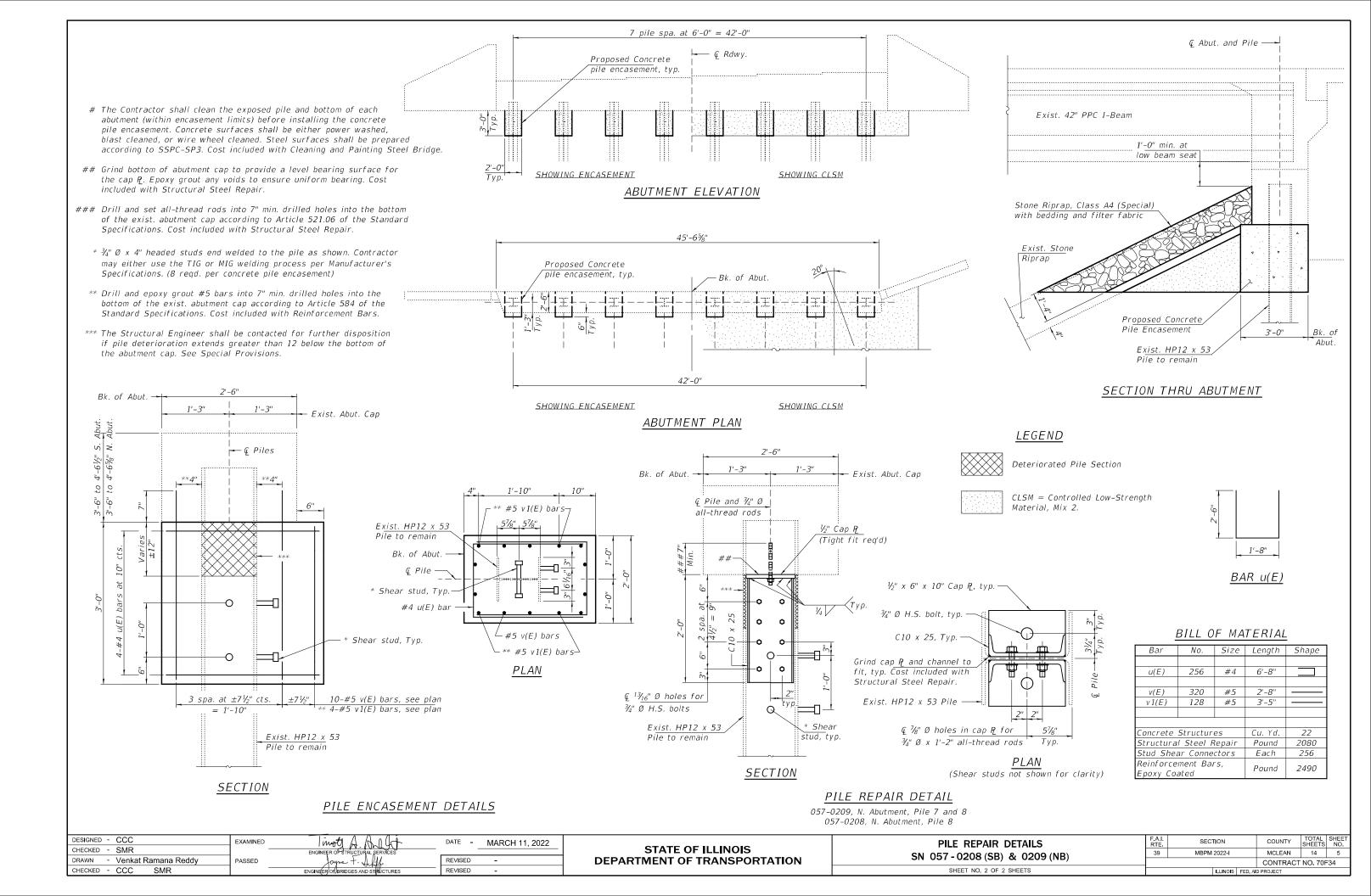
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

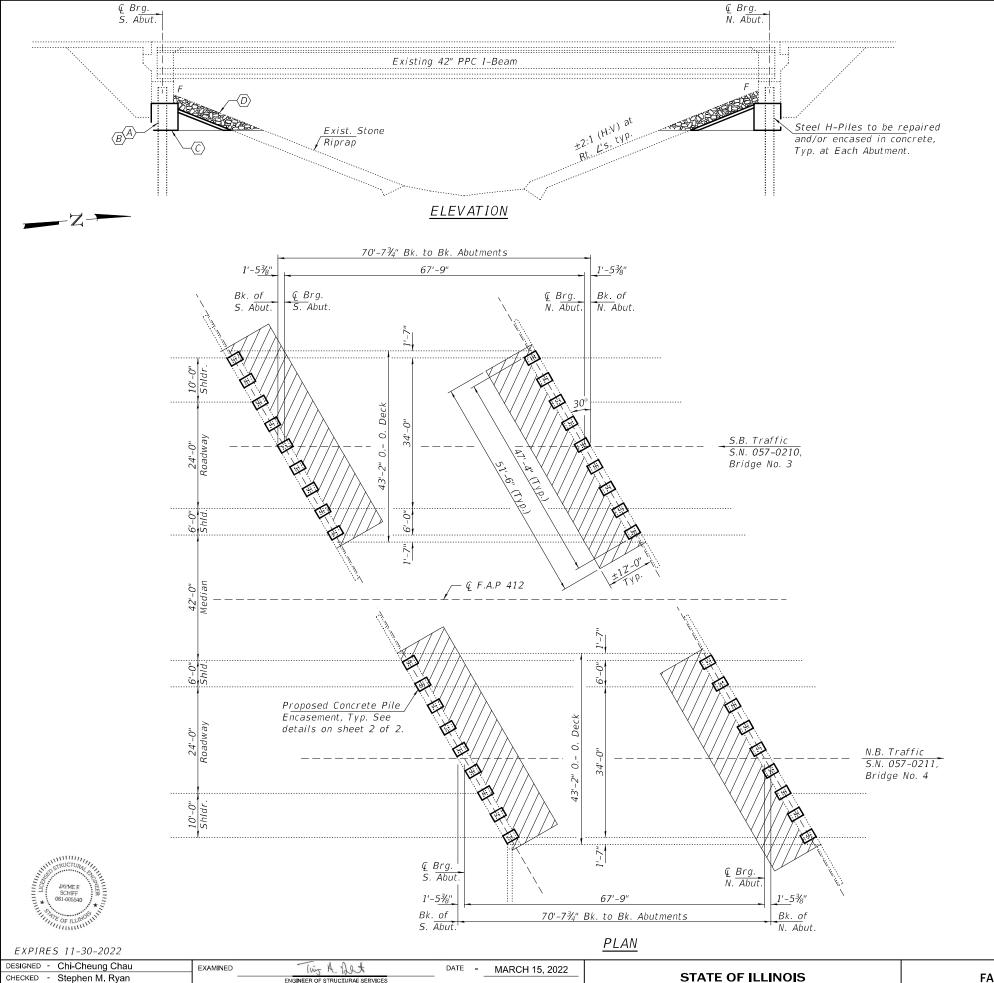
GENERAL PLAN AND ELEVATION FAI 039 OVER SIX MILE CREEK SN 057-0208 (SB) & 0209 (NB)
 F.A.I. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS NO.

 39
 MBPM 2022-I
 MCLEAN
 14
 4

 CONTRACT NO. 70F34







REVISED

DEPARTMENT OF TRANSPORTATION

DRAWN - Venkat Ramana Reddy

CHECKED - CCC

PASSED

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LEGEND



Limits of Structure Excavation. Backfill with controlled low-strength material (CLSM), mix 2. Top with filter fabric, bedding, and stone riprap. See details on sheet 2 of 2.

TOTAL BILL OF MATERIAL

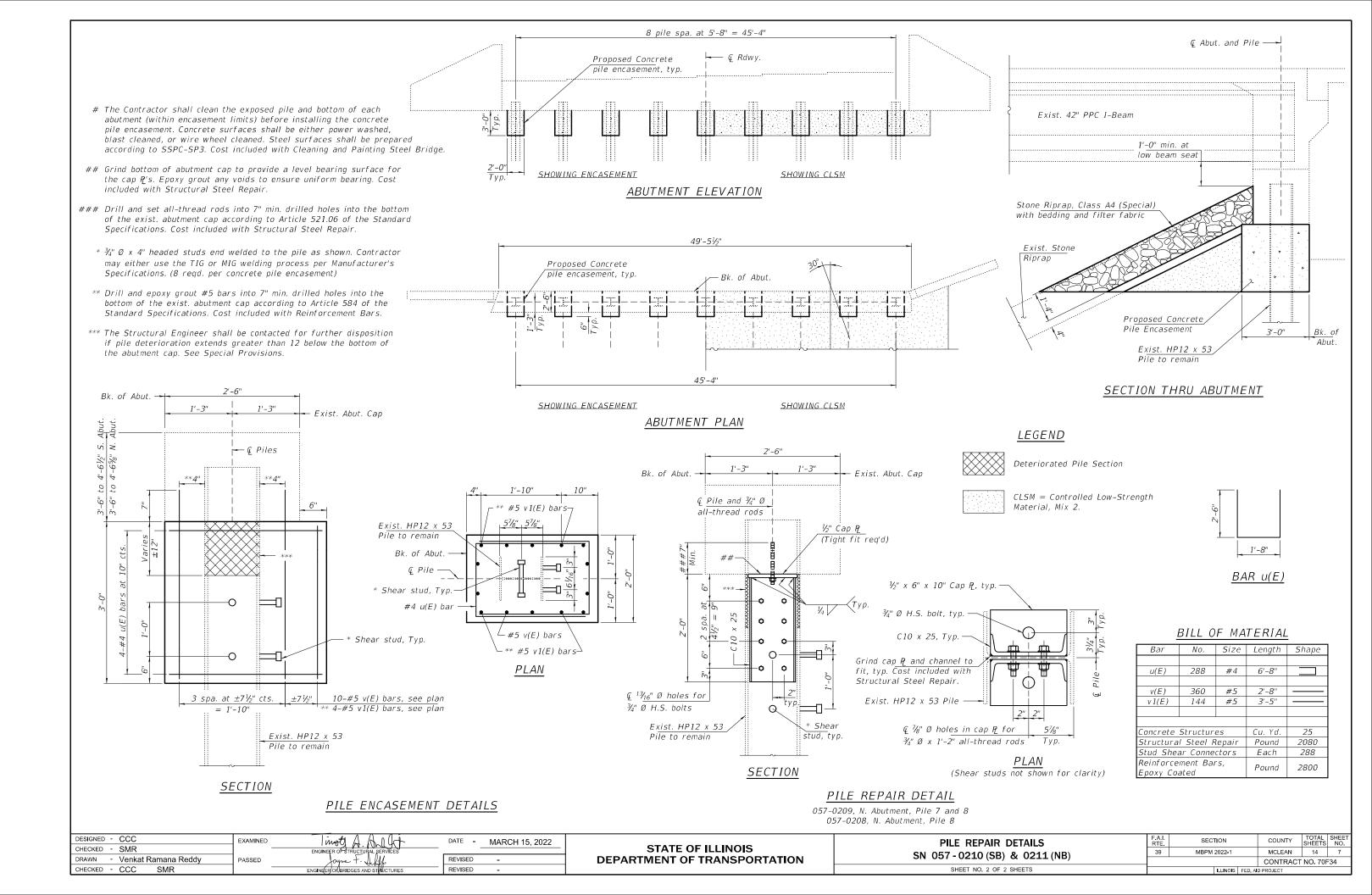
ITEM	UNIT	QUANTITY
Stone Riprap, Class A4 (Special)	Ton	170
Structure Excavation	Cu. Yd.	270
Concrete Structures	Cu. Yd.	25
Stud Shear Connectors	Each	288
Reinforcement Bars, Epoxy Coated	Pound	2800
Controlled Low-Strength Material	Cu. Yd.	100
* Structural Steel Repair	Pound	2080
Cleaning and Painting Steel Bridge No. 3	L. Sum	1
Cleaning and Painting Steel Bridge No. 4	L. Sum	1

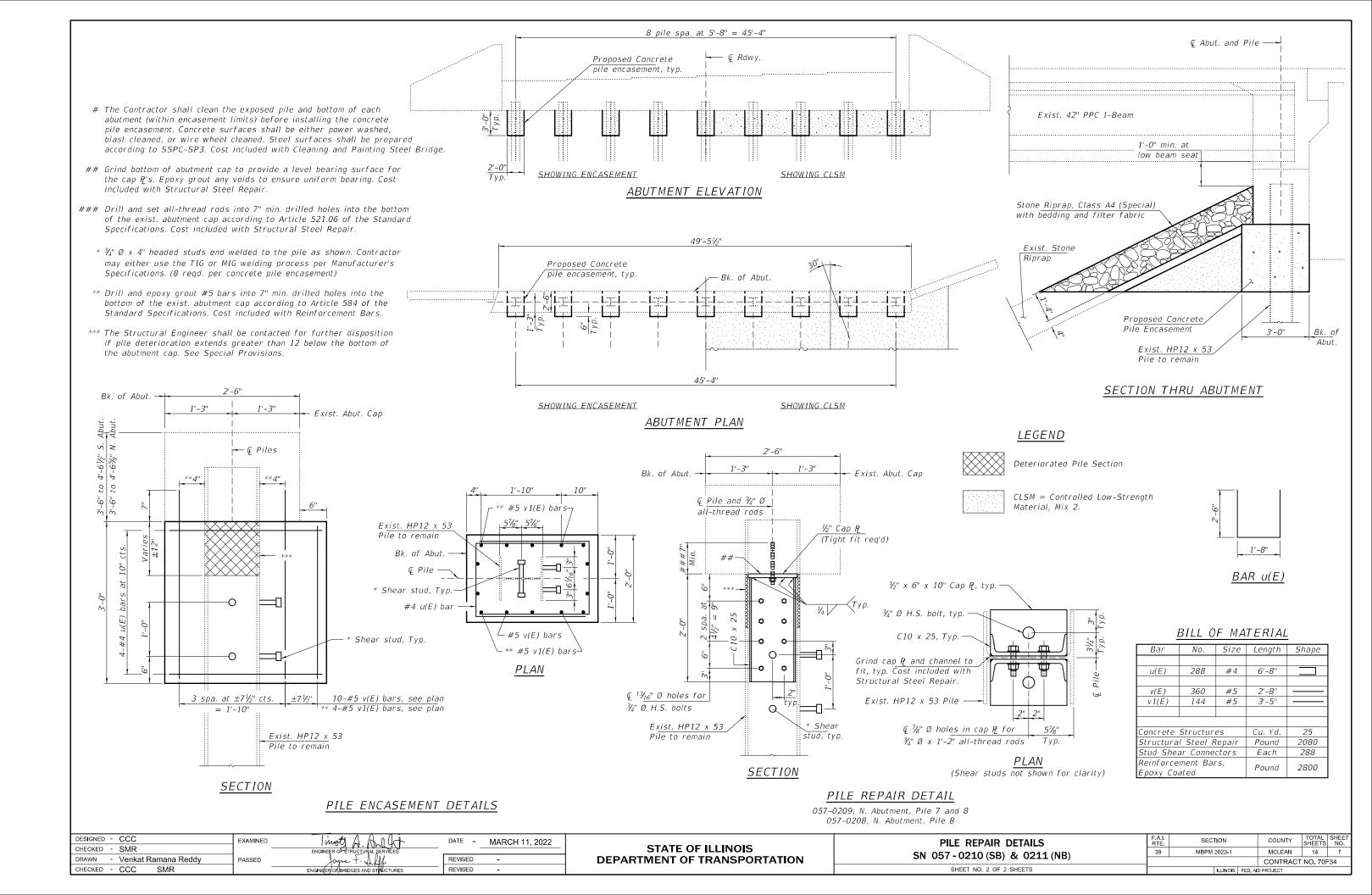
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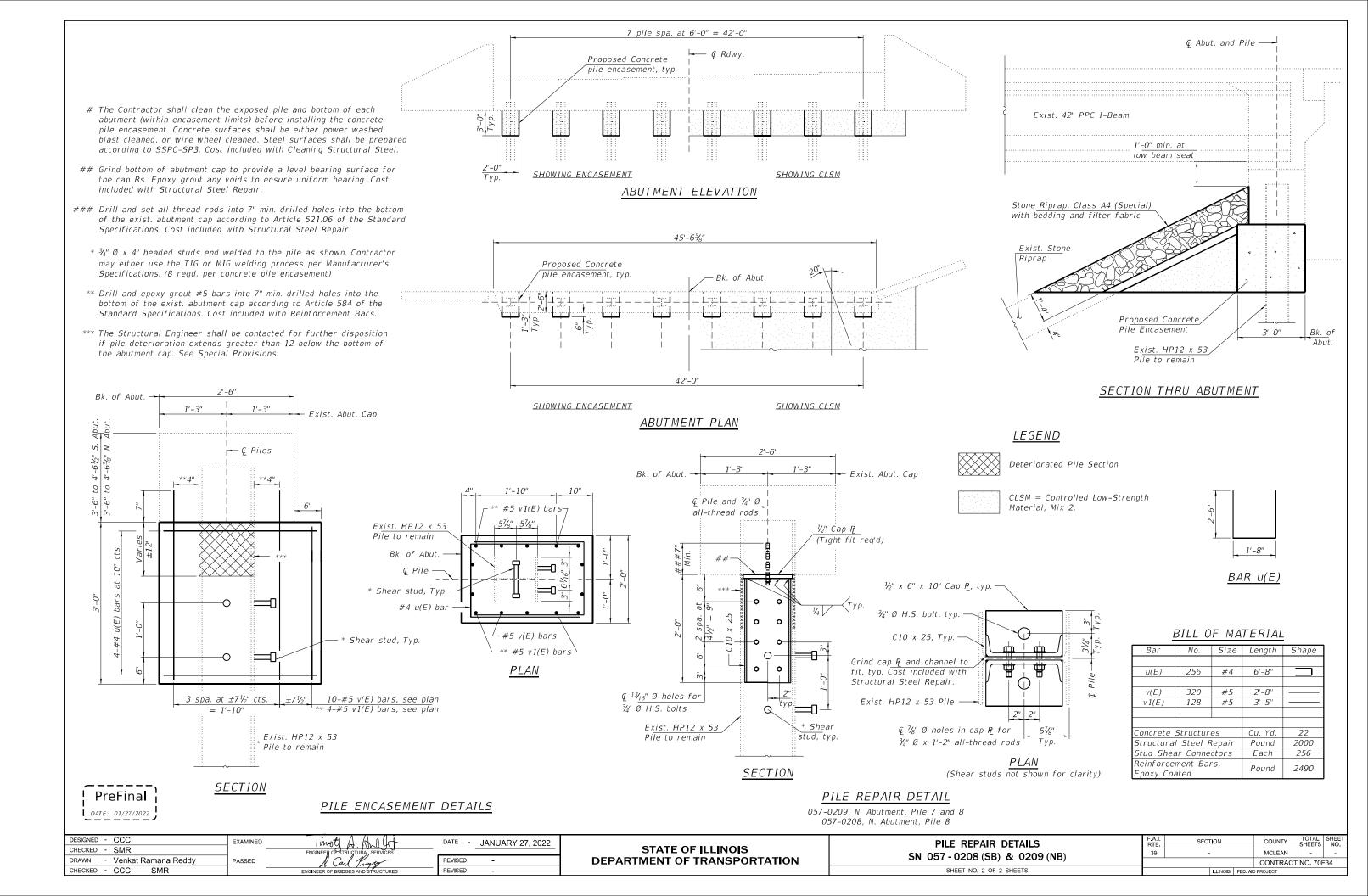
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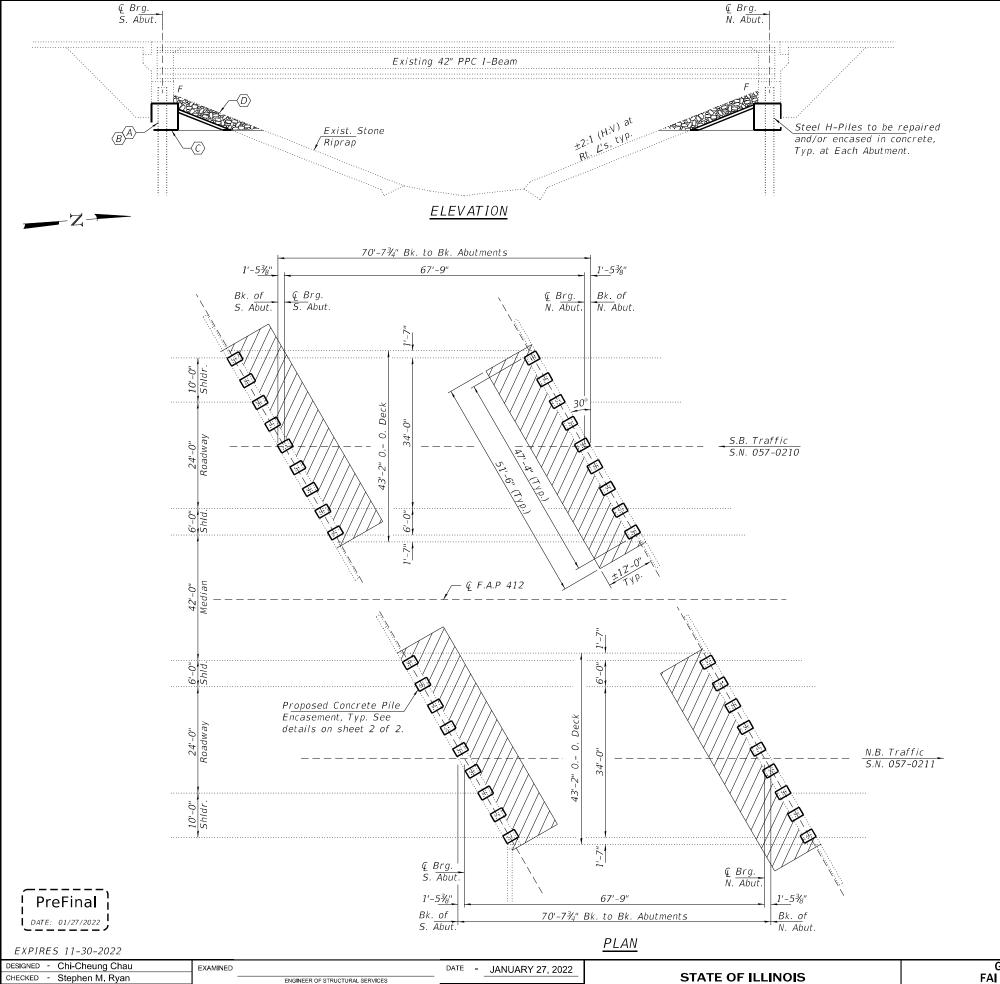
GENERAL PLAN AND ELEVATION FAI 039 OVER TRIB SIX MILE CREEK SN 057-0210 (SB) & 0211 (NB) SHEET NO. 1 OF 2 SHEETS

F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.		
39	MBPM 2022-1		MCLEAN	14	6		
			CONTRACT	NO. 70F	34		
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REVISED

DEPARTMENT OF TRANSPORTATION

DRAWN - Venkat Ramana Reddy

CHECKED - CCC

PASSED

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The quantity and limits shown herein for Stone Riprap, Class A4 (Special) are estimated. Actual quantities shall be determined and adjusted in field by the Engineer.

Structural Steel Repair quantities are estimates based on initial investigations only. Exact pile locations needing repair will be determined by the Engineer after Structure Excavation and SSPC-SP10 Blast Cleaning by the Contractor. The Engineer shall obtain pile measurements after blast cleaning but before painting. The Contractor shall notify the Engineer in advance of pile blast cleaning to avoid pile inspection delays.

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TOTAL BILL OF MATERIAL

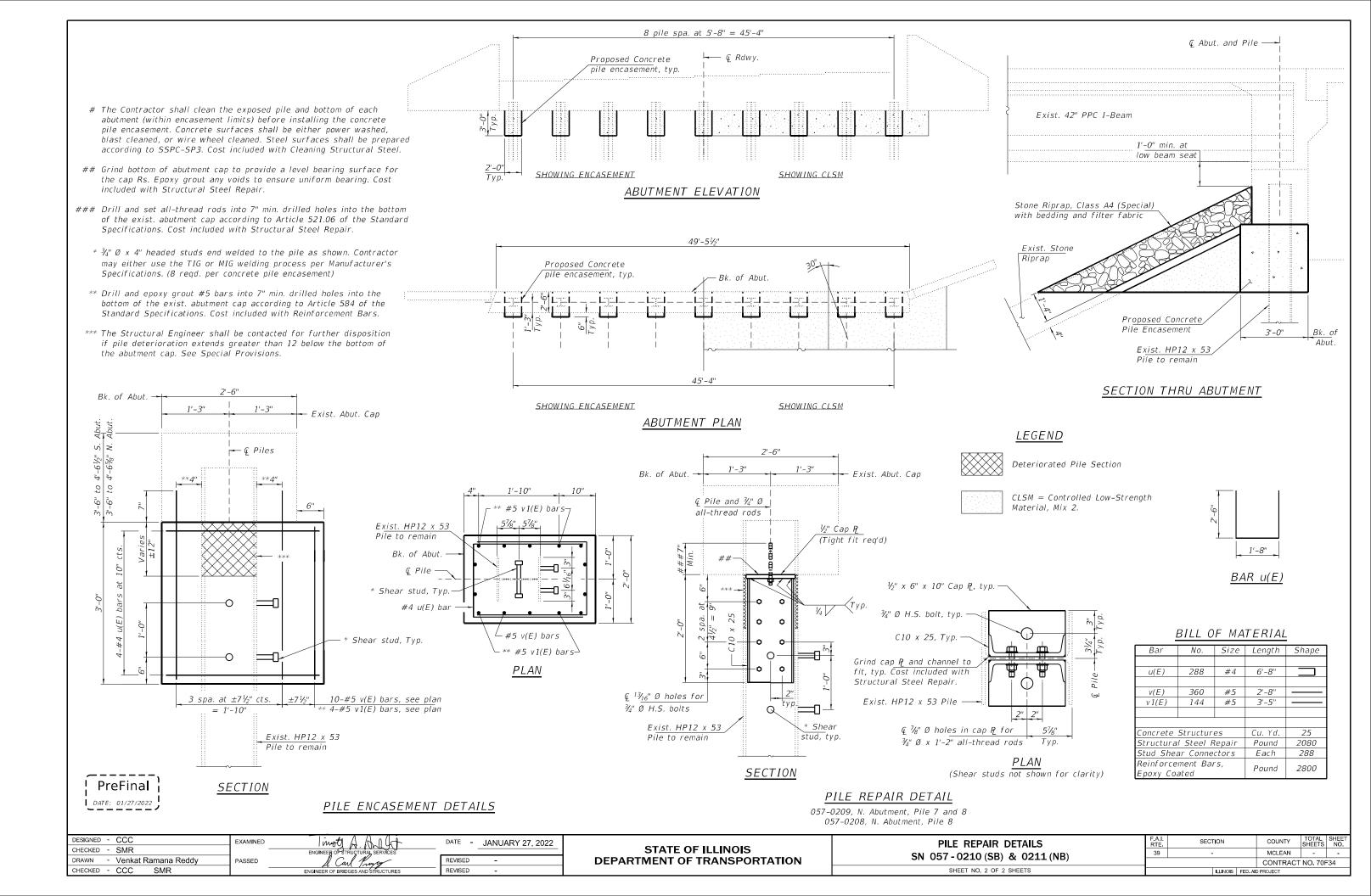
	ITEM	UNIT	QUANTITY
	Stone Riprap, Class A4 (Special)	Ton	170
	Structure Excavation	Cu. Yd.	270
	Concrete Structures	Cu. Yd.	25
	Stud Shear Connectors	Each	288
	Reinforcement Bars, Epoxy Coated	Pound	2800
	Controlled Low-Strength Material	Cu. Yd.	100
*	Structural Steel Repair	Pound	2080
	Cleaning and Painting Steel Bridge No. 1	L. Sum	1

The quantity and limits shown herein for Stone Riprap, Class A4 (Special) are estimated. Actual quantities shall be determined and adjusted in the field by the Engineer.

* Structural Steel Repair quantity is assumed for 4 piles location on each abutment. Exact pile number and locations to be determined in the field by the Engineer. Locations must also be included in the AS BUILT plans.

GENERAL PLAN AND ELEVATION FAI 039 OVER TRIB SIX MILE CREEK SN 057-0210 (SB) & 0211 (NB) SHEET NO. 1 OF 2 SHEETS

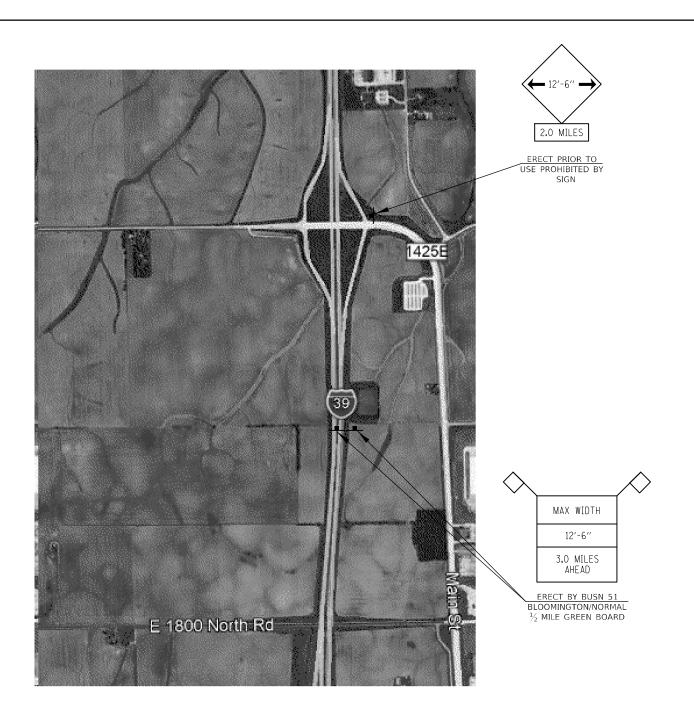
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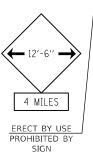


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PLOT DATE = 1/14/2022	DATE	-	3/5/2021	REVISED	-	1/14/2022

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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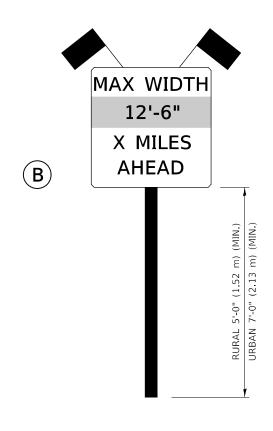
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WIDTH RESTRICTION SIGNING DETAIL				39	MBPM 2022-1			MCLEAN	14	13		
										CONTRACT	NO. 70)F34
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W12-2(0)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(O)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II

B MAX WIDTH BLACK LETTERS (ORANGE) X MILES AHEAD WHITE BACKGROUND

W12-I103(O)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS

GENERAL NOTES

- 1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
- 2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
- 3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
- 4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
- 5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
- 6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
- 7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DIGTRIGT	_	DETAIL	810	V70000
DISTRICT	5	DETAIL	NU.	. X/ZUUZU

USER NAME = brandenburgtj	DESIGNED - TJB	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 1/11/2022	DATE - 3/5/2021	REVISED -

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