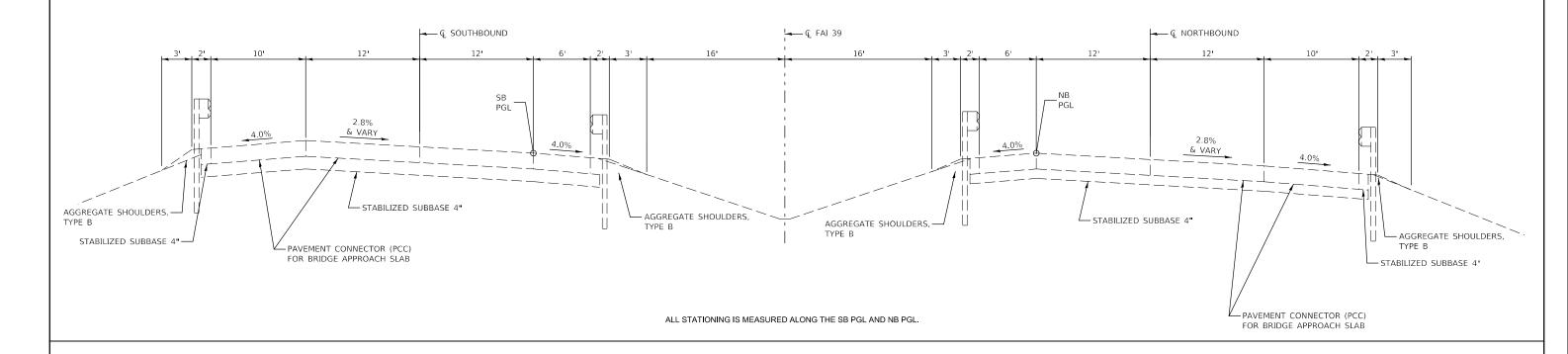
# **EXISTING TYPICAL SECTION F.A.I. 39**

SB STA 290+73.00 TO STA 291+49.77 SB STA 303+16.18 TO STA 303+70.11 SB STA 292+79.55 TO STA 293+34.85 SB STA 305+78.83 TO STA 306+42.24 NB STA 290+98.64 TO STA 291+80.27 NB STA 303+84.03 TO STA 303+49.58 NB STA 293+11.41 TO STA 293+84.29 NB STA 305+60.10 TO STA 306+14.58

BRIDGE APPROACH PAVEMENT SB STA 291+49.77 TO STA 291+79.49 SB STA 292+49.58 TO STA 292+79.55 NB STA 291+80.27 TO STA 292+10.30 NB STA 292+81.13 TO STA 293+11.41

SN 057-0210 SB STA 291+79.40 TO STA 292+49.67 SN 057-0211 NB STA 292+10.20 TO STA 292+81.22 BRIDGE APPROACH PAVEMENT SB STA 303+70.17 TO STA 304+00.18 SB STA 305+49.10 TO STA 305+78.83 NB STA 303+49.58 TO STA 303+79.86 NB STA 305+30.10 TO STA 305+60.10

SN 057-0208 SB STA 304+00.09 TO STA 305+49.19 SN 057-0209 NB STA 303+79.77 TO STA 305+30.19



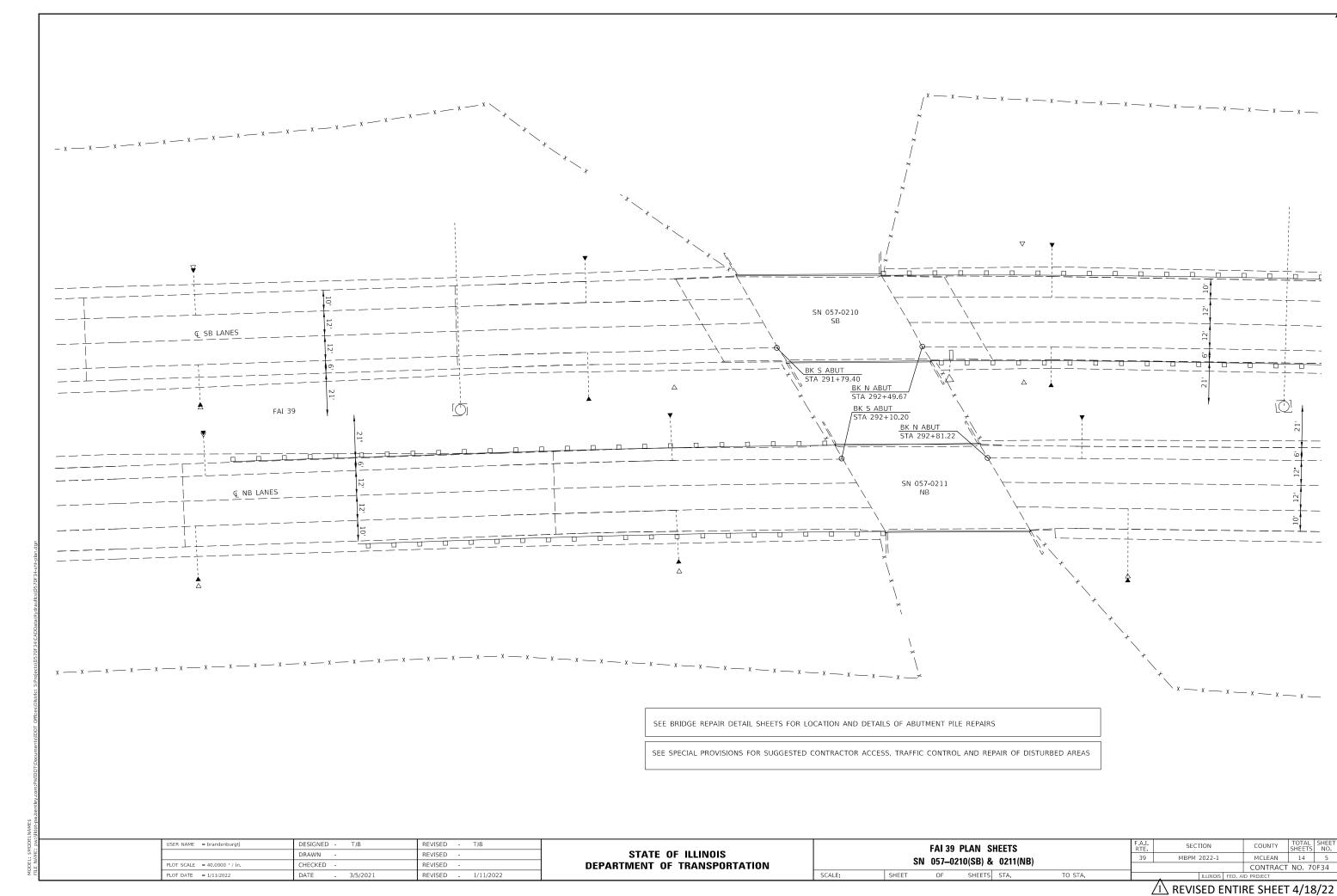
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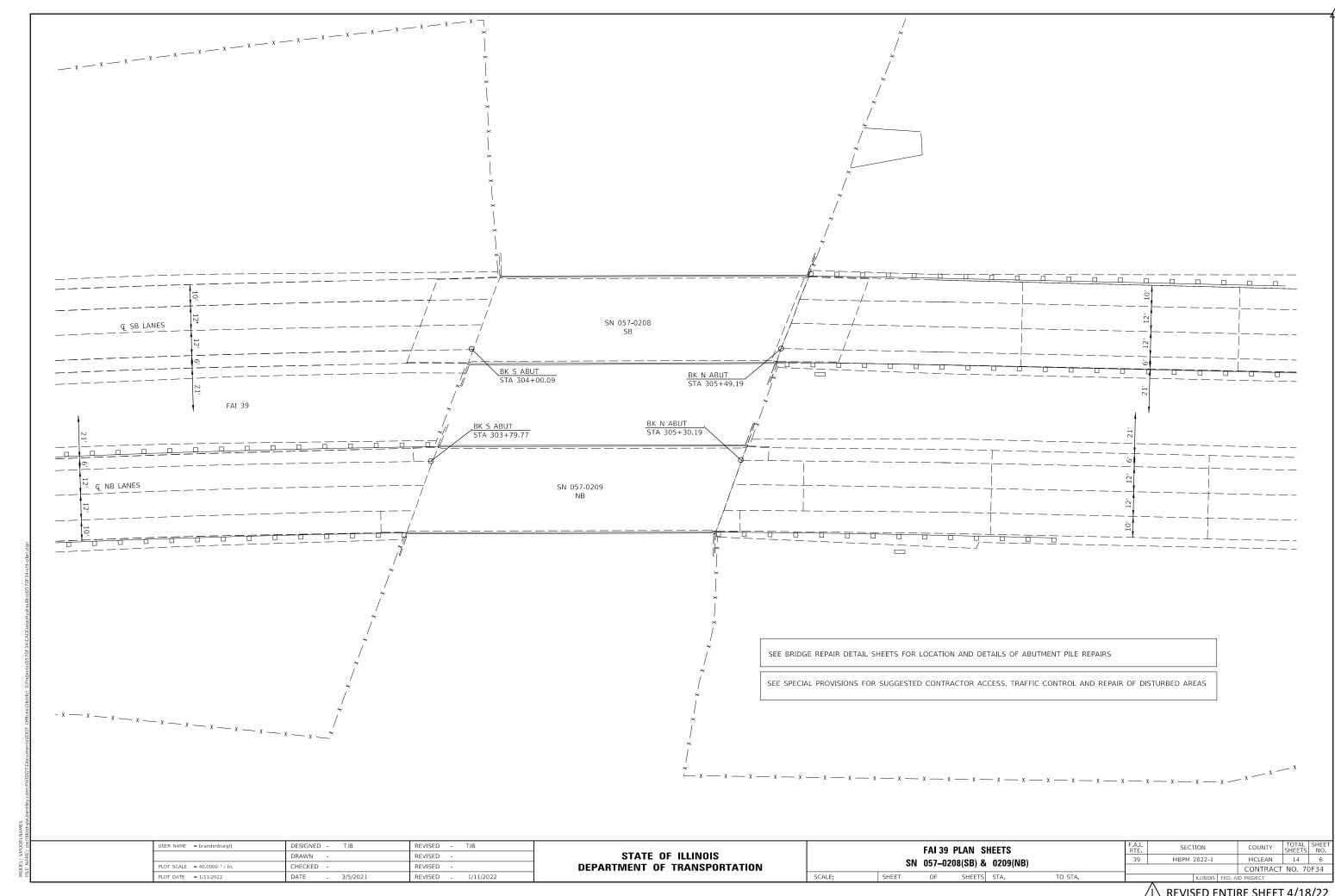
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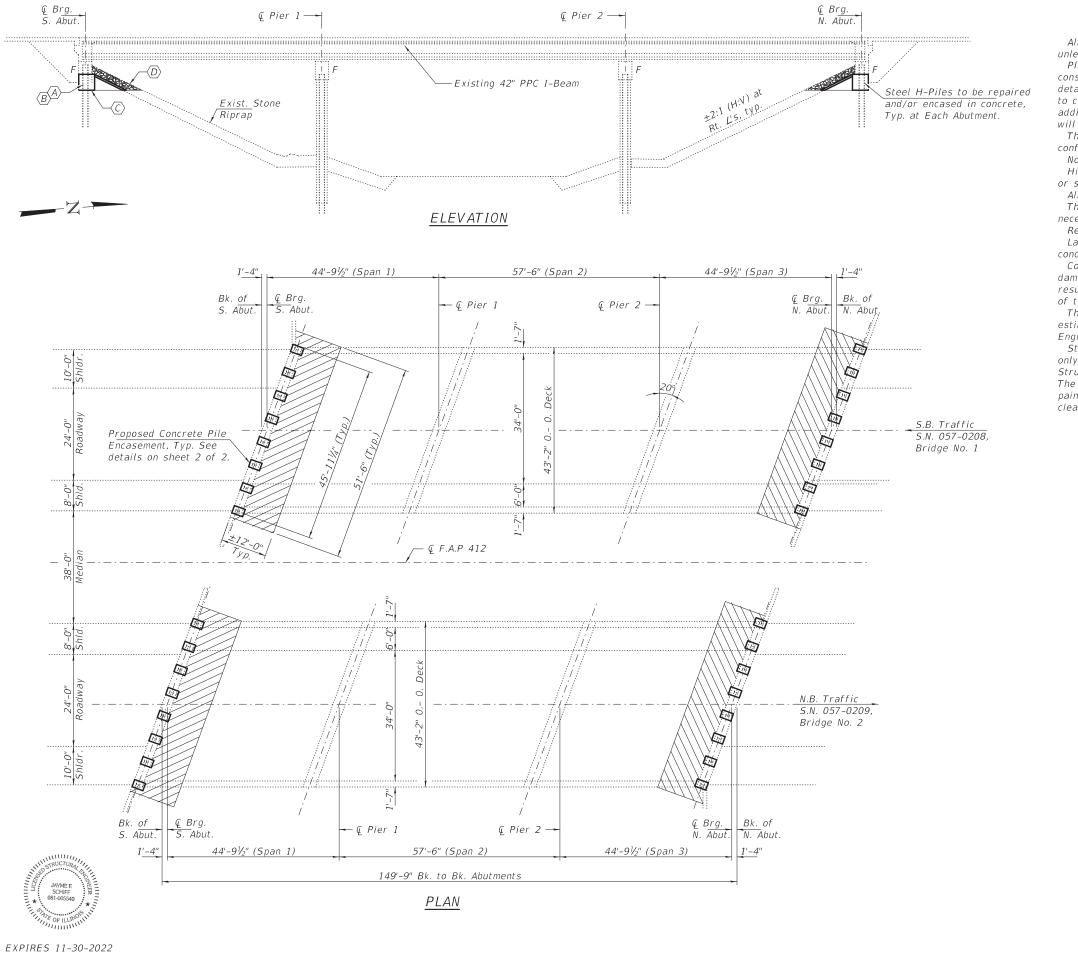
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 TYPICAL SECTIONS
 F.A.I. RTE. 39

 SCALE:
 SHEET
 OF
 SHEETS
 STA.
 TO STA.







MARCH 15, 2022

REVISED 1 - VHV 04/18/2022

**STATE OF ILLINOIS** 

**DEPARTMENT OF TRANSPORTATION** 

DESIGNED - Chi-Cheung Chau

CHECKED - Stephen M. Ryan

CHECKED - CCC

DRAWN - Venkat Ramana Reddy

Ting A. Det

tayn F. Ashiff

**EXAMINED** 

PASSED

### 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.

- $\langle \overline{A} \rangle$  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

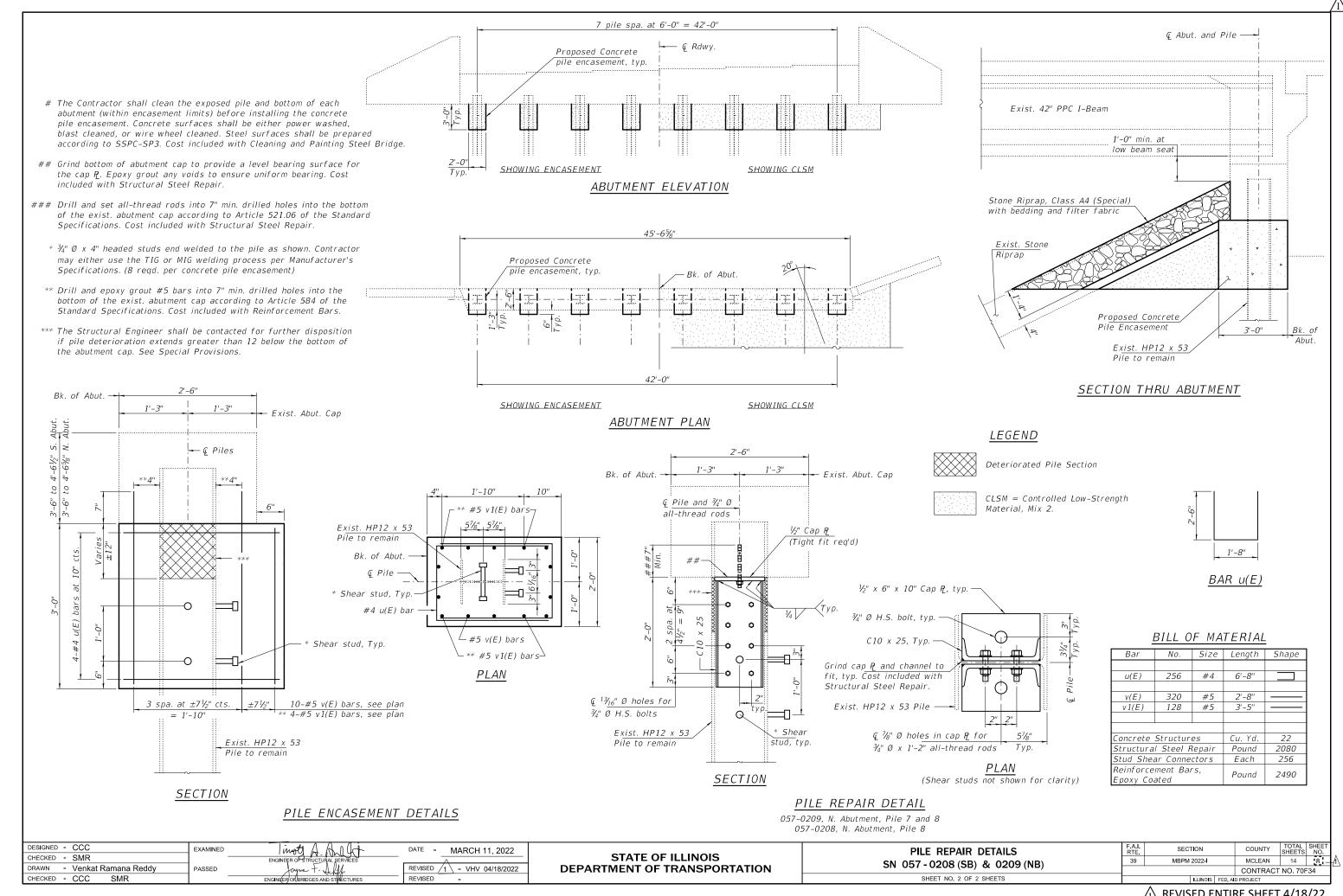
ITEM	UNIT	QUANTITY	
Stone Riprap, Class A4 (Special)	Ton	170	
Structure Excavation	Cu. Yd.	270	
Concrete Structures	Cu. Yd.	22	
Stud Shear Connectors	Each	256	
Reinforcement Bars, Epoxy Coated	Pound	2490	
Controlled Low-Strength Material	Cu. Yd.	100	
Structural Steel Repair	Pound	2080	
Cleaning and Painting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

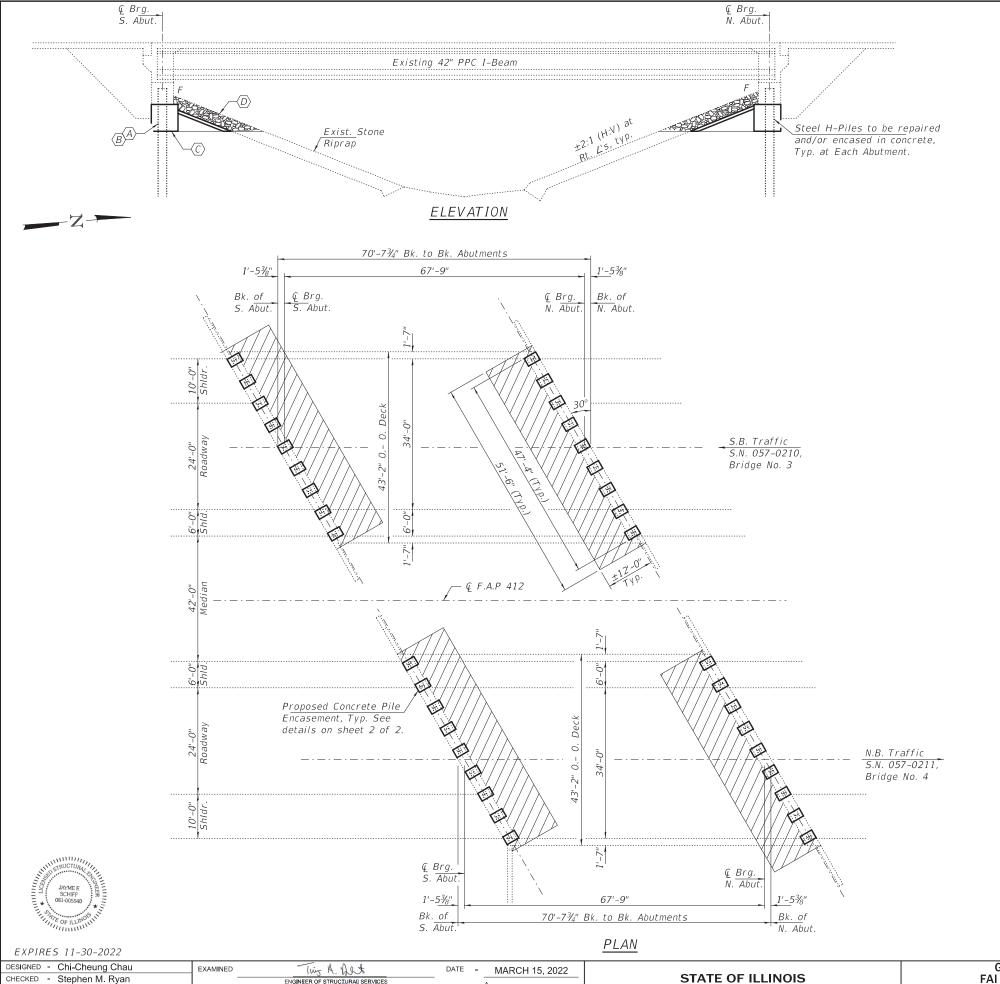
The quantity and limits shown herein for Stone Riprap, Class A4 (Special) are estimated. Actual quantities shall be determined and adjusted in the field by the Engineer.

\* 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.

GENERAL PLAN AND ELEVATION FAI 039 OVER SIX MILE CREEK SN 057-0208 (SB) & 0209 (NB)

SHEET NO. 1 OF 2 SHEETS





REVISED /1 - VHV 0414/2022

**DEPARTMENT OF TRANSPORTATION** 

DRAWN - Venkat Ramana Reddy

CHECKED - CCC

PASSED

## 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.

- $\langle \overline{A} \rangle$  Expose and clean all abutment piles as shown.
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- $\langle C \rangle$  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.	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	

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

F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.		
39	MBPM 2022-1		MCLEAN	14	9		
CONTRACT NO. 70F34							
ILLINOIS EED AID BROJECT							

